r Itlining Iommal,

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

[The MINING JOURNAL is Registered at the General Post Office as a Newspaper, and for Transmission Abroad.]

No. 2103.—Vol. XLV.

LONDON, SATURDAY, DECEMBER 11, 1875.

SUPPLEMENT. SPRICE SIXPENCE. PER ANNUM, BY POST, 21 40.

MR. JAMES H. CROFTS, STOCK AND SHARE BROKER, No. 1, FINCH LANE, CORNHILL, LONDON, E.C. Established 1842.

BUSINESS transacted in all descriptions of MINING Stocks and Shares (British d Foreign), Consols, Banks, Bonds (Foreign and Colonial), Railways, Miscel neous, Insurance, Assurance, Telegraph, Shipping, Canal, Gas, Water, and

laneous, Insurance, Assurance, Accessing, Surpers, Surpers, Dock Shares,
Business negociated in Stocks and Shares not having a general market value.
Business in all Colliery and Iron Shares, and in the principal Wagon and
Manufacturing Companies of the North of England and Scotland.
Mr. J. H. Choryts, having now established Corresponding Agenciates in all the
CHIEF Towns of the United Kingdom, is prepared to deal in the various Local
Stocks and Shares at close market prices.

Accounts opened for the Fortnightly Settlement.

Monthly and Daily Price Lists issued.

Bankers : City Bank, London; South Cornwall Bank, St. Austell.

Brecial Dealings in the following, or part;—20 Almada, 11s. 3d.; 20 Assheton, 15s.; 20 Bg, 9s.; 30 Bampfylde, 15s.; 10 Bilson, £10½; 20 Cardiff and Swansea, £3; 25 Chapel House, £3½; 150 Clee Hill Colliery, 2s. 6d.; 5 Devon Consols, £5½; 15 Ding Dong; 20 Emma, 22s. 6d.; 10 East Caradon, £1 17s. 6d.; 50 Frontino, £1 16s. 3d.; 30 Flagstaff, 17s. 6d.; 50 Frontino, £1 16s. 3d.; 30 Flagstaff, 17s. 6d.; 20 Great Vor, £3 2s. 6d.; 20 Hingston, 22s. 6d., x. d.; 50 Javail, 13s. 6d.; 10 Last Chance, 13s. 9d.; 20 Marke Valley, £3½; 20 Mwyndy Iron, £15½ dis.; 10 Palmer's Shipbuilding; 25 Parys Mountain, 13s.; 10 Fateley, £5½; 10 Pennerley, £17s. 6d.; 50 Penstruthal, 8s. 6d.; 50 Plynlimmon; 20 Prince of Wales, 6s.; 10 Roman Gravels, £12; 10 Richmond, £5½; 10 South Condurrow, £5½; 50 Tyllwyd, 15s.; 100 Thornhill Reef, 2s. 6d.; 10 Tankerville, £1½; 10 Thorp's Gawber, £7%; 25 Van Consols, 30s.; 15 West Tankerville, £1½; 15 Wheal Crebor, £2½; 15 Wheal Grenville, £1½.

BUSINESS in POSITIVE ASSURANCE SHARES.

"." Shares sold for forward delivery (one or two months) on deposit of 20 percent.

Business on hand in all the leading Tin, Copper, and Lead Shares.

EGYPTIAN AND TURKISH BONDS.—SPECIAL BUSINESS

JAMES H. CROFTS, 1, FINCH LANE, LONDON. RAILWAYS.—SPECIAL BUSINESS. Fortnightly accounts opened on receipt of the usual cover.

JAMES H. CROFTS, 1 FINCH LANE, LONDON.

FOREIGN BONDS.—SPECIAL BUSINESS. Fortnightly accounts opened on receipt of the usual cover.

JAMES H. CROFTS, 1, FINCH LANE, LONDON.

R. W. H. BUMPUS, STOCK AND SHARE BROKER,

44, THREADNEEDLE STREET, LONDON, E.C.,
Transacts business in MINING and COLLIERY Stares of every description,
ENGLISH AND FOREIGN STOCKS,
COLONIAL BONDS,
HAILWAYS,
BANKS,
FINANCIAL AND MISCELLANEOUS SHARES,
And all Securities dealt in on the LONDON STOCK EXCHANGE.
Purchases and Sales negociated in Unmarketable Stocks and Shares.
Accounts opened for the Fortnightly Settlement on receipt of the usual cover.
References given and required when necessary.
A STOCK and SHARE LIST sent FREE on application.
BANKERS—The NATIONAL PROVINCIAL BANK OF ENGLAND, E.C.
SPECIAL BUSINESS in the SHARES of all the principal HOME and

SPECIAL BUSINESS in the SHARES of all the principal HOME and FOREIGN MINES at close market prices.

FOR SALE, at prices annexed:—
25 Chontales, 8s. 100 Malabar, 6s. 125 Parys Mount., 11s. 9d.
25 Colorado, £2 2s. 9d. 10 Neufenhatel Rock, 4s 6d 50 General Mining, £5. 10 New Sharlston, £5. 40 West Maris, 7s. 6d. 150 Penstruthal, 8s. 6d. 10 Wheal Grenville, £2½

MINING INVESTMENTS. MINING INVESTMENTS.

The Shares of several sound Dividend and Progressive Mines may now be obtained at prices which are very much in favour of purchasets, and investments made at the present time in this direction will, in all probability, yield very satisfactory results within a comparatively short period.

A carefully selected List of Shares, which are likely to have an early and important rise in market value, may be had on application.

WILLIAM HENRY BUMPUS, SWORN BROKER.

(Member of McLean's Telegraphic News Exchange.)

M ESSRS. PYNE AND ASHMEAD,
CITY MINING AGENTS,
LONDON MANAGEMENT OF COMPANIES UNDERTAKEN,
ACCOUNTS AUDITED, LIQUIDATIONS CONDUCTED.
6, BISHOPSGATE STREET WITHOUT, LONDON, E.C.

RERDINAND

5, BIRCHIN LANE, E.C.

BPECIAL BUSINESS in—
Alltami Colliery.
Chapel House.
Cape Copper.
Consols, Foreign Bonds, Railways, and every security quoted on 'Change bought and sold. Clients giving the usual "cover" can open accounts for the fortnightly settlement. References given when necessary in most of the leading towns of the United Kingdom.

JOHN RISLEY (SWORN), STOCK AND SHARE BROKER,

Business transacted at the following rates of commission:—Foreign Stocks, 1/4 per cent.; and Mining Shares of £4 each and upwards, 11/4 per cent.; under £4, 1s, per share.

MESSES. W. J. TALLENTIRE AND CO.,
STOCK AND SHARE BROKERS.
20, CHANGE ALLEY, CORNHILL, LONDON, E.C.,
Transact business in Stock Exchange Securities and Mining Shares of every description, either for immediate cash or the usual bi-monthly settlements, and also afford advice personally or by letter to executors, trustees, capitalists, and investors

afford advice personally or by letter to executors, trustees, capitainss, and investors of every class in the selection of Securities for safe and profitable investment, their experience of the markets, extending over a period of more than sixteen years, together with special facilities for acquiring information, enabling them to act beneficially for clients.

They have established Corresponding Agencies in all the principal towns of the United Kingdom, and are prepared to deal in the various local Stocks and Shares at close prices. Orders per pust or telegraph receive prompt attention.

INVESTORS SHOULD APPLY for a copy of Messrs. W. J. TALLENTIRE and Co.s Circular for December, SENT POST FREE. It contains valuable information on Foreign Stocks, Railways, and Mines.

G. E. SIMPSON, STOCK AND SHARE DEALER, 6, GREAT WINCHESTER STREET BUILDINGS, LONDON, E.C.

MR. W. TREGELLAS, 122, BISHOPSGATE STREET WITHIN, E.O.,
Deals in all descriptions of Stocks and Shares at close market prices.

MR. W. MARLBOROUGH, STOCK AND SHARE DEALER,
29, BISHOPSGATE STREET, LONDON, E.C. (Established 19 Years)
cm sell the following BHARES, at prices annexed;
40 Fingstaff, 18s, 9d.
50 Assheton, 16s, 6d.
60 Bog, 7s, 9d.
25 Gold Run, 16s, 3d.
60 Bog, 7s, 9d.
25 Gold Run, 16s, 3d.
60 Bog, 7s, 9d.
60 Port Phillip, 16s, 3d.
60 Port Phillip, 16s, 3d.

Bog, 7s. 2d Bog, 7s. 2d Bodger, 2

ONS.

E.O. (Established 19 Years),
60 Parys Mount., 11s, 9d.
25 Pennerley, 22s, 3d.
50 Plynlimmon, 6s, 9d.
60 Port Phillip, 16s, 3d.
20 Richmond, £3, 2s.
25 Sweetland, £2 18s. 9d.
70 South Aurora, 6s.
d 50 St. Patrick, 27s. 6d.
30 So. Tolcarne, 15s.
d 60 West Maria, 7s. 9d.
50 Western Andes, £4118
25 Wheal Agar, £2½.
d 30 West Godolphin.
ted for 20 Shares.

NVESTMENTS IN STOCKS AND SHARES. BRITISH and FOREIGN STOCKS and SHARES BOUGHT and SOLD.

List of Prices and other information sent on application.

Bankers: The Alliance Bank (Limited), London.

ME. P. WATSON, 79, OLD BROAD STREET, LONDON, E.C. (Close to Stock Exchange.)
FINANCIAL OPERATIONS NEGOCIATED.

MR. ALFRED E. COOKE, STOCK AND SHARE DEALER, 76, OLD BROAD STREET, LONDON. (Established 1853.)

Mr. Cooke is a SELLER of the following SHARES, free of commission:

20 Argentine.
40 Blue Tent.
10 Devon Consols.
40 Plue Tent.
10 Devon Consols.
40 Plue Tent.
10 West Tankerville.
20 West Maria.

SPECIAL BUSINESS in the following:
Bampfylde.
Cakemore Colliery.
Cathedral.
Cathedral.
Cathedral.
Cathedral.
Chapel House.
Business transacted in all other Mines, Miscellaneous Shares, Railways, and Foreign Stocks on best possible terms.
Mr. Cooke issues daily a list of Stock Exchange Closing Prices, which will be forwarded on application.

M. T. E. W. THOMAS, SHARE BROKER, 3, GREAT WINCHESTER STREET BUILDINGS, E.C. Established 1857.

The following are the latest prices at which business could be done. Whe difference between the buying and selling price is wide transactions meffected at an intermediate price:—

W I L L I A M
(LATE WARD AND LITTLEWOOD),
C R O B B Y H O U S E, 95, BISHOPSGATE STREET WITHIN, E.C.,

M.R. E. J. BARTLETT, STOCK AND SHARE DEALER, No. 30, GREAT ST. HELEN'S, LONDON, E.C. (Established 10 years), has SPECIAL BUSINESS in South Condurrow, Prince Patrick, Wheal Kitty, Penhalis, and Chapel House Shares at close prices.

MR. THOMAS THOMPSON, JUN., 1, PALMERSTON BUILDINGS, BISHOPSGATE STREET, LONDON, E.C.
Some valuable hints as to the purchase of mining shares will be found in Mr. Thompson's "Investment Circular" for Dec. now ready, post free, price 6d.

MESSES. ENDEAN AND CO., STOCK AND SHAFE DEALERS, 85, GRACECHUECH STREET, LONDON, E.C. Government and every negociable Stocks dealt in for cash or account. Orders and telegrams punctually attended to.

M ESSRS. HARLAND AND CO., STOCK AND SHARE DEALERS, 285 and 286, GRESHAM HOUSE, OLD BROAD STREET, LONDON, CO., Bankers: London and County Bank.

Messrs. H. and Co. have Special Business in Chapel House and Alltami Collieries Shares, also in the shares of the Oregon Gold, and the Patent Ligno Mineral Paving Companies, and will be happy to give full particulars of the above desirable investments investments on application.

Dealings at closest market prices in all kinds of Stocks and Shares.

MESSES. HARVEY, JORDAN, AND CO., MINING ENGINEERS AND AGENTS, ACCOUNTANTS, AUDITORS, MANAGERS OF PUBLIC COMPANIES, &c.
In connection with Messrs. Teat, Fosters, and Co., Georgetown, Colorado.
Mineral Properties Inspected.

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MESSRS. H. HALFORD AND CO., ROYAL INSURANCE BUILDINGS, LOMBARD STREET, LONDON, are BUYERS of any number of SHARES in the WYE VALLEY MINE.

They are also BUYERS of GROGWINION SHARES.
Bellers should apply by letter, stating number of shares and lowest price.

MESSRS. J. M. LAWRENSON AND CO:, accountants, share and mine brokers, arcade chambers, bellers should apply by letter, stating number of shares and lowest price.

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SPECIAL BUSINESS in the following British and Foreign Mines, Colliery, and other shares at closest prices:—Argentine Gold, Bilson and Orump, Birdseye Creek, Bedford United, Bog, Carn Brea, Cathedral, Chontales, Cedar Oreek, Chapel House, Cardiff and Swanses, Onicago, Devon Consols, Don Pedro, Eberhardt, Emma, Exchequer, Flagstaff, Frontino, Grogwinion, Gold Run, Gold (Welsh), Hingston Down, Hornaches, Javali, Ladywell, Last Chance, Marke Valley, Moydd Gorddu, New Rosario, New Quebrada, Parys Mountain, Pateley Bridge, Pennerley, Penstruthal, Plynlimmon, Port Phillip, Phosphate Sewage, Richmond, Rica, Roman Gravels, Sweetland Creek, South Aurora, South Carn Brea, Tankerville, Teooma, Unity Weod, Van, Van Consolu, West Chiverton, Western Andes, West Tankerville, Wheal Grenville, Wye Valley.

FOR SALE, 250 Positive Assurance.

JAMES STOCKER, SWORN BROKER.

Buys and sells on commission every description of English and Foreign Funds. Railway Stocks and Shares of all kinds.
Foreign Bonds—Peruvian, Turkish, Egyptian, &c.
Bank, Gas, Shipping, Telegraph, and Miscellaneous Shares.
Fortnightly accounts opened for same.
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M R. CHARLES THOMAS, MINING AGENT, STOCK AND SHARE DEALER, S, GREAT ST. HELEN'S, LONDON, E.O.

WEST GODOLPHIN.—Full particulars of this mine may be obtained on application. The shares are recommended for immediate investment or speculation. CHARLES THOMAS, 3. GREAT ST. HELEN'S, LONDON, E.C.

MESSES. A. W. THOMAS AND CO...
10, COLEMAN STREET, E.C.,
MINING AGENTS, AND STOCK AND SHARE DEALERS

"INVESTMENTS AND SPECULATIONS FOR 1875."

FOR SALE, 50 Chapel House Colliery Shares, at £31/2. WANTED TO PURCHASE, a few Shares in Whitehaven Iron

M ESSRS. A. ENDEAN, FISHER, AND CO., STOCK AND SHARE DEALERS, 3, LOMBARD COURT, LOMBARD STREET, E.C.

Bankers : London and Westminster, Lothbury.

Now ready.—Special.

SELECT LIST,

containing pithy and pointed statements respecting Eric, Grand Trank
American and English Railways, Foreign Stocks, Telegraphs, Foreign Railways

And Mines.

Forwarded gratis on application to John B. Reynolds, 70 and 71, Bishopsgatestreet Within, London, E.C.

M R. TIMOTHY HUGHES,

The Registered Office of the PRINCE PATRICK GROSVENOR, WEST BRYN CELYN, CENTRAL FOXDALE, and GREAT EAST FOXDALE LEAD MINING COMPANUES (LIMITED). Full information respecting these Mines forwarded on application.

RELIABLE INFORMATION given respecting Mines in the Isle of Man, Flint-shire, and the neighbouring districts

MR. W. F. STANLEY, MATHEMATICAL INSTRUMENT MANUFACTURER TO H.M. 'S GOVERNMENT, COUNCIL OF INDIA, SCIENCE AND ART DEFARTMENT, ADMIRALTY, &c. MATHEMATICAL, DRAWING, and SURVEYING INSTRUMENTS of ever description, of the highest quality and finish, at the most moderate prices.

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ADDRESS-GREAT TURNSTILE, HOLBORN, LONDON, W.C.

WEST GREAT WORK MINE (LIMITED). WANTED TO PURCHASE, 200 SHARES, or ANY PART thereof.—Sellers must name number and lowest price to Messrs. W. J. TALLENTIBE and Co, 20, Change-alley, Cornhill, London, E.C.

WANTED, by the EBBW VALE STEEL, IRON, and COAL COMPANY (LIMITED), a Gentleman, to TAKE the TECHNICAL MANAGEMENT of the COMPANY'S IRON and STEEL WORKS. He must be a high-class Engineer, and possess a thorough knowledge of the Manufacture of Iron and Bessemer Steel.

Applications to be addressed to the Secretary, at 86, King street, Manchester, on or before the 27th December instant.

WANTED, a CLERK in a SPELTER WORKS. One having a knowledge of Assaying preferred. State age, where last employed,

Y A knowledge of Assaying preferred. State age, where last end salary expected.
Apply, "J. Y. H.," MINING JOURNAL Office, 26, Fleet-street, London.

WANTED, TWO SECONDHAND SMALL JACK ENGINES, with single 9 to 10 inch, or double 6 inch cylinder, fitted with small drum apply to Mr. Dagliss, Mining Offices, Tynemouth.

FOR SALE, TEN BRIDGEFIELD AND VICTORIA SALT SHARES; also ONE HUNDRED PRINCE OF WALES SHARES. AN alls paid.

Apply to "W. B.," care of Carr Brothers and Smith, 1, Warnford-court.

FOR SALE, BY PRIVATE CONTRACT, ONE 22 in, cylinder WINDING ENGINE and CASE, with BOLLER of 8 tons, on WHEAL MARY ANN MINE. For particulars and price, apply to the Purser, W. G. NETTLE, Liskeard. December 9, 1875.

MANGANESE MINE FOR SALE,
Apply to Brown and Sons, St. Austell, Cornwall.

MONYDD GORDDU MINING COMPANY (LIMITED),—
A FEW FULLY PAID-UP SHARES, of £5 each, in the above mine, J
BE SOLD at a discount for cash.
Apply to "C. W.," MINING JOURNAL Office, 26, Fleet-street, London.

M R. J. S. M E R R R AND ANALYTICAL CHEMIST,

C APTAIN ABSALOM FRANCIS, MINING AGENT, ENGINEER, AND SURVEYOR.

R. PERCY ROBERTS, FINANCIAL AGENT, 60, ENGLISH STREET, CARLISLE. M R

96, DEANSGATE, MANCHESTER.

WIRE-ROPE TRAMWAYS AND BRIDGES, AND SUSPENDED RAILWAYS, on the GRAVITATION PRINCIPLE (under PALME'S PATCH), are manufactured by GWYNNE AND CO., CIVIL AND MECHANICAL ENGINEERS,

ESSEX STREET WORKS, STRAND, LONDON, At a cost of from £150 to £500 per mile. The Patent Double Line Incline, with the Loaded Car bringing back the Empty, a especially useful for mines &c., and bridges over torrents and canals.

When applying for Estimates, send full particulars of work required to be done

REMOVAL OF OFFICES TO 76, OHEAPSIDE
From 21, Gresham-street, London, E.C.

WIRE TRAMWAYS ARE NOW IN OPERATION IN ALL
PARTS OF THE WORLD.
By recent improvements, inclines as steep as 1 in 3 can be surmounted, and
ravines up to 200 yards can be crossed without intermediate support. Quantities
from 50 to 500 tons daily can be thus transported.
For full information, and references to examples at work, apply to the Engineer,
W. CARRINGTON, 76, OHEAPSIDE.

1150 BLAKE'S PATENT ORE-CRUSHERS MARSDEN, SOHO FOUNDRY, LEEDS, aly maker in the United Kingdom.

The Percy and Kelly Nickel, Cobalt, and Chrome Iron Mining Company, Limited,

MONT D'OR, NOUMEA, NEW CALEDONIA,

Registered under the Companies Acts, 1862 and 1867.

CAPITAL £120,000, IN 12,000 SHARES OF £10 EACH.

Divided into 6000 "A" shares and 6000 (fully paid up) "B" shares, the latter of which are taken in part payment for the property. Divided into 6000 "A" shares and 6000 (fully paid up) "B" shares, the latter of which are taken in part payment for the property. Until the 1st of October, 1878, the holders of the "A" shares will be entitled to a preference dividend of £10 per cent, out of the annual profits of the company, in proportion to the amounts paid by them, subject to which the holders of the "B" shares will be entitled to a like dividend, and the balance will be divided between the holders of "A" and "B" shares in proportion to the amounts paid up, or to be deemed paid up, on the shares held by them respectively. After the period aforesaid the holders of "A" and "B" shares will be entitled to a dividend out of the net profits of the company in proportion to the amounts paid up, or to be deemed paid up, on the shares held by them respectively.

The shares now offered to the public consist of 6000 "A" shares only, on which will be payable £2 on application and £3 on allotment; the balance, if required, in calls not exceeding £1 per share, at intervals of not less than six months.

Applicants desiring to pay up in full on their shares can do so, and will not only be entitled to a dividend on the amount, and avoid all further liability, but will also be allowed a discount of £5 per cent, on the full amount paid exceeding the application and allotment money.

and allotment money.

Shares will be allotted by priority, immediately upon application; but in the event of no allotment being made all moneys received for shares on application will be returned in full.

Each Director will hold a qualification of £500 in the company.

TRUSTEES

THE RIGHT REVEREND BISHOP JENNER, D.D. MAJOR W. STEWART RICHARDSON (46th Regiment), Limerick, Ireland.

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General H. ERSKINE HICKS (Director of the British Guardian Life Assurance Company, London), Hillgrove, Wells,

Somersetshire.

E. GILBERT HAMLEY, Esq. (Coroner for the Eastern Division of Cornwall), Bodmin.

Monsieur E. HAUSSER, Engineer-in-Chief, Lorient, France.

The Hon. MAR-ERSKINE, Moncton House, Ryde, Isle of Wight,

C. LINDSAY CRUIKSHANK, Esq., Belturbet, Cavan, Ireland.

JOHN MORGAN, Esq. (Messrs. Higginson, Morgan, and Co., Merchants), Noumea, New Caledonia.
J. J. KELLY, Esq. (J. J. Kelly and Co.), Noumea, New Caledonia.
JOHN WHITEHEAD, Esq. (Whitehead, M'Laughlen, and Co.), Barrack-street, Sydney.

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BANQUE DE LA NOUVELLE CALEDONIE, 33, Boulevard Haussman

PARIS.

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Messrs. LYSEN FRERES AND CO.

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AUDITORS. Messrs, JOHNSTONE, COOPER, WINTLE, AND EVANS, 3, Coleman-street Buildings, Moorgate-street, E.C. ASSAYER AND ANALYST,

E. H. HARRIS, Esq., 14, Devonshire-square, E.C. SECRETARIES.

J. H. IRVINE CRUIKSHANK, Esq., 47, Charing Cross, London, S.W. C. S. NORRIS, Esq., 49, Rue de Grenelle, St. Germain, Paris.

CHIEF OFFICES,-47, CHARING CROSS, LONDON, S.W. CITY OFFICES,-111, CHEAPSIDE, LONDON, E.C.

(W. H. WOODS AND CO., AGENTS).

EXTENT AND PARTICULARS OF PROPERTY.

This company is formed for the purpose of acquiring and working the Percy an Kelly Nickel, Cobalt, and Chrome Iron Mine, secured by a lease under the "Mining Statute Act" of New Caledonia and Dependencies, and situated at Mont d'Or, Koumea, New Caledonia. The lease is granted for perpetuity, from the 5th November, 1874, identical in terms with all mining leases granted in New Caledonia. The property it subject to a ground rental of £50 per annum.

This (as will be seen on reference to the plan) is one of the largest mining properties on the Mont d'Or Nickel, Cobalt, and Chrome Iron Fields, and has an area of 100 hectares, being equivalent to £50 acres (English). Its natural position is hardly to be surpassed, it is traversed (as will be seen by the accompanying report) throughout its entire length by broad belts of lodes, all auriferous. Ore of a very high average has been discovered on the surface, and in very large quantities, and Mr. Kelley reports that about 150 tons, averaging about 10 per cent., is now stacked, which the company will have the option of taking with any ore on bank at the time of compelion of the contract, on paying to the vendors £24 per ton, being the lowest price offered by the Bank of New Caledonia, Paris, for 5 per cent. ore.

ASBAYS.

ASSAYS. ASSAYS.

A quantity of ore taken from the mine of the same character as that mentioned above, and to be seen at the offices of the company, was submitted to the Rev. W. B. Clarke, LL.D., Prof. Liversidge, of the Sydney University: Dr. Leibus, of the Sydney Mint; and Mr. C. J. Latta, of Sydney; and to Messrs. Johnson, Matthey, and Co. (Assayers and Smelters to the Bank of England and Her Majesty's Mint), of Hatton Garden, London, and the following are their reports.

COPIES OF ASSAYS OF THE PERCY AND KELLY NICKEL MINE, MONT D'OR, NOUMEA.

The originals and certified copies, under statutory declaration, may be seen at any time at the offices of the company.

Johnson, Matthey, and Co., Assayers and Melters to the Bank of England, Her Majesty's Mint, &c. Assay Offices and Ore Floors, Hatton Garden, London, E.C., May 26, 1875. Favoured by the Rev. W. B. Clarke.

	25 14 14 14 14 16 17 17 17 17 17 17 17 17 17 17 17 17 17	
Sulphuric acid 0.83	Iron	4.58
Iron, alumina, and loss 15.13	Nickel	. 15.63
Water (loss on ignition) to	Magnesia	1.23
reduce 17.75=100.0	Lime	. 0.42
	Water, &c	. 38-12=100-
Assays by Professor LIVERSI 8ilica	Harx Pimelite (Ba	ick).
Iron 1·0	Alumina	23.04
Alumina 5·0	Iron	2.69
Water 5.0	Nickel	2.78
Magnesia 22.0=104.0	Magnesia	14.68
	Water	31.03=110.0

CERTIFICATE OF ASSAY.

mple of nickel ore marked as under, and find the fol-We have examined the sample of nickel ore marked as under, and find the following to bother result—Mark of sample X. Peroxide of nickel, 5 per cent; per-oxide of coolsi, 0.75 per cent.

JOHNSON, MATTHEY, AND CO.

CERTIFICATE OF ANALYSIS,
Assay Offices and Laboratory, 14, De
London, E.C.

Assay Offices and Laboratory, 14, Devonshire-square,
London, E.C., 6th October, 1875.

GENTLEMEN,—I have examined the two samples of New Caledonia nickel ore
forwarded on the 4th inst., and find the following to be the result:—No. 1 (serpentine) nickel, 9 per cent.*; No. 2 (nuer casing) nickel, 15-9 per cent.

To the Percy and Kelly Nickel Company.

The cause of the high percentage of nickel in the serpentine is attributable to a vein of pure ore running through the sample.

Six.—The speciments.

butable to a vein of pure ore running through the sample.

Royal Mint, Sydney, 10th June, 1874

Sir,—The specimen sent by you to be assayed for nickel was found to contain

6-19 per cent. (six per cent. and nineteen hundredths).

Mr. J. J. Kelly, Ocean street, Double Bay.

Union Club, Sydney, 20th June, 1874.

I have analysed a specimen of nickel ore casing a vein of chromeiron, submitted
to me, and find that it contains three and twenty-six hundredths (3-25 per cent.)

per cent. of metallic nickel.

Union Club, Sydney, 20th June, 1874.

I have analysed the specimens of nickel ore submitted to me, and find that the cont in seven and thirty-nine hundredths (7.39 per cent.) per cent. of metallic nicke

ARCHD. LIVERSIDGE.

Union Club, 8ydney, 22nd June, 1874.

1 have examined the specimen of chrome iron submitted to me by Mr. J. J. Kelly, and find that it contains 32 11 per cent. of metallic chromium, or 46 80 per cent. of chromium sesquicxide. Also specimen of a brown serpentine accompanying the nickel ore, and find that it contains '78 per cent. (seventy-eight hundredths per cent.) of metallic nickel.

he blokel ore, and find that it contains to be termined to discuss the contains to discuss of the nickel.

Qualitative ananysis of the nickel ore and serpentine: Substances present are while of nickel, magnesium, silica, iron, aluminium, cacium. The nickel ore is a allicate of nickel and magnesium, with certain impurities; and the serpentine is inpure silicate of magnesium, containing a small proportion of oxide of nickel.

ARCHD, LIVERSIDGE.

Assay Laboratory, 26, O'Connell-street, Sydney, 26th June, 1874.

Assay report of sample of nickel ore received from Mr. Kelly:—Assay, 21.38 per ent. of metallic nickel. Charge, £2 2s.. Received, J. G. Latta. J. G. LATTA.

cent. of metallic nickel. Charge, £2 2s.. Received, J. G. Latts. J. G. LATTA.

Union Club, Sydney, 20th June, 1874.

DEAR SIR,—In answer to yours of yesterday, received to-day, I herewith send you a note of the results furnished by the analyses of two of the specimens—viz., the nickel ore itself and the easing of the chrome iron vien. The analysis of the chrome iron will not be furnished till Monday. I find that the brown serpentine which occurs with the nickel ore does contain some nickel, but only in small quantities. If you would like to have a qualitative analysis of the nickel, that also I sould forward to you with the crome iron results. It might perhaps be in sufficient quantity to pay for extraction. I have sampled the cre itself, before the receipt of your former note; but even had I not done so I, of course, could not dress the specimens myself; they must be sent to me in the state in which they are to be assayed.

PROSPECTS OF THE NINE

specimens myself; they must be sent to me in the state in which they are to be assayed.

PROSPECTS OF THE MINE.

From the various samples assayed it appears that the average yield of nickel now being taken from a 10-ft. tunnel on the mine has been from 15 to 24 per cent.

Direct offers have been received (from the Bank of New Caledonia, Paris; to purchase ore from the mine, free on board at New Caledonia, on the following terms, for the period of one or five years, viz:—

Ore carrying 75 to 75 per cent.

22 0 0 per ton.

Ore carrying 10 per cent.

23 0 0 per ton.

Ore carrying 10 per cent.

24 0 0 per ton.

Ore carrying 10 per cent.

More and Kelly Mine, "to mine and deliver 3000 tons, at the rate of 150 tons a month, for £10,500," being at the rate of £3 10s. per ton.

It will be seen, on reference to the report of the Government Surveyor before mentioned, that he states that ore can be conveyed from the mine by a tramway ling the cost of mining and delivering free on board at New Caledonia to be £3 10s. per ton, and that 50 tons weekly can be raised of 5 per cent. ore, the lowest average, that at £24 per ton leas the £3 10s. costs, leaves a margin of weekly profit equal to £1025, or at the rate of £60,000 per annum. The directors, however, carefully abstain from over-sanguine representations as to the prospects of the mine; at the same time they would state that trustworthy information, derived from a variety of sources, and confirmed by the reports of a very well known and experienced mining manager and engineer, printed with this prospects, who has examined the mine, the originals of which can be seen at the offices of the solicitors to the company, has convinced them of the soundness of the undertaking. There are hundreds of tons of surface ore on the mine, which, it is believed, will pay hand-somely for shipment to Condon until the company erects its own smelting works.

somely for shipment to London until the company creets its own smelting works.

The purchase money of the property is £110,000, which the vendors, in proof of their belief in the success of the mine, have agreed, in lieu of payment of cash, to take as follows—£50,000 in debentures running for 15 years, at 10 per cent., payable out of profits, with the option to the company of redemption after 30 days' notice, and the balance—£60,000 in B shares, which, until Oct. 1, 1878, will not on the content of the content of the amount credited to any dividend till the A shares, in proportion to the amount credited on them, shall have received 10 per cent. out of the annual profits, after providing for the debenture interest, when the B shares are to take out of the remaining annual profits to the extent of 10 per cent., after which the A and B shares will share equally any balance of annual profits. On and after Oct. 1, 1878, the A and B shares will share can be also after the content of the proportion to the amounts credited on the respective shares. No part of the purchase money, either in shares or debentures, will be paid to the vendor. terest, in proportion to the amounts credited on the respective shares. No part of the purchase money, either in shares or debentures, will be paid to the vendors until the property has been inspected and approved of by a mining engineer, se-lected and approved by the directors for that purpose.

The work done upon the mine up to the present time has been solely with a view of testing its value, and in every case most encouraging results have been and are still being obtained. Ore is now brought to bunk at the lowest possible cost, and in large quantities, and by the end of November, 1875, it is estimated about 200 tons will be at bank. There are 18 miners now at work on the mine, bringing ore to bank.

bank.

MACHINERY.

In connection with the mine an extensive and complete plant will be erected, provided with all the latest improvements and appliances for the treatment of the ores. The rich chrome iron and copper found to exist in connection with these nickel lodes will receive careful treatment.

The mines are but 12 miles (by a good macadamised road and by water) from Noumea, and Noumea itself is easy of access from Sydney, New South Wales, there being a fornightly mail steamer. Facil is plentiful and cheap. The mine has been inspected by several mining authorities, who are unanimously of opinion that the property is one which will yield most valuable returns, if worked on the systematic and comprehensive scale proposed by the directors.

WORKING CAPITAL.

working CAPITAL.

The whole of the subscribed cipital—viz., £63,000, in 6010 "A" shares—will constitute a working capital, of which it is only proposed to call up £30,000, an amount deemed sufficient to provide for the cost of the machinery and plant, estimated at £10,000, and for opening up the mine on a comprehensive scale.

ORES.

Ores obtained from the mine can be seen at the offices of the company here, but it must be observed that these are purely surface ores.

MEMORANDUM OF AGREEMENT.

1875, and made between the vendors of the one part, and J. H. Irvine Cruikshank, Esq. (on behalf of the company), of the other part, can be inspected at the offices of the company.

APPLICATION FOR SHARES.

Applications for the 6000 "A" or preference shares of £10 each, must be made on the form enclosed, with a remittance of £2 per share to the bankers of the som-

Forms of application, prospectuses, and plans can be obtained from the bankers, as also from the auditors, solicitors, engineer, secretaries, and from any of the directors and trustees.

The upper part of this sheet to be left with the Bankers on payment of the deposit.

THE PERCY AND KELLY NICKEL, COBALT, AND CHROME IRON MINING COMPANY (LIMITED),

Mount d'Or, Noumea, New Caledonia. FORM OF APPLICATION FOR ALLOTMENT OF SHARES. To the directors of the Percy and Kelly Nickel, Cobalt, and Chrome Iron Mining Company (Limited).

Dated this day of day of Dated this day of the Applicant wishes to pay up in full on allotment), I desire to avail myself of the privilege to pay up the above shares in full on allotment, thereby entitling me to a discount of £5 per cent., and my application to be especially considered in the terms of the Prospectus.

THE PERCY AND KELLY NICKEL, COBALT, AND CHROME IRON MINING COMPANY (LIMITED). Mount d'Or, Noumea, New Caledonia

BANKERS' RECEIPT FOR DEPOSIT OF ALLOTMENT OF SHARES. Received this day of 1875, from on account of the directors of the Percy and Kelley Nickel, Cobat, and Chrome Iron Mining Company (Limited) the sum of £, being the deposit of £2 per share on application of A shares of £10 each in the above undertaking.

For Messrs. MARTIN and CO., Bankers, 68, Lombard-street, E.C.

Boyal School of Mines.

PROF. SMYTH'S LECTURES ON MINING-No. V. [BY OUR SPECIAL REPORTER.

In the last lecture I pointed out some of the conditions under which metallic minerals are concentrated in particular parts of the lodes, and showed how irregular these were. It has been for many years past the object of the miners to endeavour to make out some rule by which to be guided; to see whether, and if so in what mannel to the provide of the miners to endeavour to make out some rule by which to be guided; to see whether, and if so in what mannel to the past of In the last lecture I pointed out some of the conditions under which metallic minerals are concentrated in particular parts of the

conglomerate, but wedges off, and does not pass into the limestone except, perhaps, in the form of small strings. So that in this case the termination (or change) of the vein is coincident with a change in the rock in which it lies. The Tresavean Mine, mentioned above, was opened as a copper vein—at a time when it was not believed that copper existed in the granite—and yielded large quantities of ore, then from the lower levels not being so good as the upper ones, or from the vein being pinched, the mine was abandoned, although there was no appearance of the vein having been worked out. Of the Fowey Consols Mine, which I had an opportunity of seeing just before it was closed, the same may be said, and, in fact, if the depth were much smaller the vein would be regarded as a tolerably good one still. In these nips, squeezes, or hitches, therefore, the experienced miner will recognise a character which may last for a few inches, feet, or even fathoms, yet where the country around the lode is not considerably changed, may nevertheless be but temporary, and to be overcome by patient and persevering opening of the ground.

And now I will say something of the varying character of the same may be said.

severing opening of the ground.

And now I will say something of the varying character of the ground, or country. In North Wales, for instance, many years ago a very productive lode in greenstone, or diorite, was worked, but was abandoned, on the idea that this was a gash vein: subsequent renewal of the workings, some few years ago, proved that the vein did not really terminate there, but on coming down to a mass of slaty rock it was found running through the rock as a number of slaty rock it was found running through the rock as a number of

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small strings. A similar character is very notorious of the veins of Derbyshire: these occur principally in the mountain limestone, and are comparatively regular; on following these veins down they come to a band of rock of more or less volcanic character—"toadstone" (so called from the German word totalt, meaning dead), and this toadstone was said to cut off those veins entirely; but further researches have shown that the veins are carried forward through the toadstone, often obliquely, or, as miners say, they gre "squinted" in one direction. If the working is carried through the toadstone to a second bed of limestone the vein is found to open out again, and in some cases they have thus been traced to a third bed of limestone. Unfortunately there is no regularity as to the thickness of the toadstone, and many cases have occurred of the abandonment of the workings after sinking some considerable distance into that rock without coming to its base. The same is the case in Yorkshire, and to a certain extent in Flintshire. In the great district of the North of England, from 120 to 130 miles long, you have phenomena very similar to those above described. The rocks in this district consist of alternations of beds of blue limestane, of yellowish grit or hazel, and of grey slatey beds, a kind of chaley clay. In passing through these rocks it will generally be found that the vein is richest in the limestone, in a less degree but still moderately productive in the gritstone, and then greatly impoverisned in the shale, and very often this is accompanied by a slip, so that the vein is pinched together, and represented, perhaps, only by a few strings of calc-spar, with mere specks of ore. These veins will have to be carried downwards, and it will depend very much on where we take it as to whether we meet again with likely rocks. It is the well understood business of the miner in these districts to make himself a thorough geologist, so far as the character and the thickness of these different beds are concerned. Hence you wi

Fig. 5. 1- - L I 1 1 H (1000) (800)

A great complication is introduced where we have a dislocation accompanying the vein, as in Fig. 5. You may find the lode filled with douk, which is troublesome to get through, and to get rid of the difficulty of water, so as to clear the ground. In the figure H represents the hazel, or grit; L the limestone; and D the douk, or plate, or shale. Where we have limestone on either side of the vein it will be very productive, but in the douk it thins out. The important question will be what is the amount of throw, and this can only be ascertained by an intimate knowledge of the rocks.

It has been hoped by some industrious persons that careful analyses of the "country" of the lodes would lead to practical conclusions, but up to the present I do not think any good results have flowed from this, partly from the following causes, that we shall find that the physical condition of the rocks has to be closely looked to, as well as their chemical composition. Thus, you may have two rocks both of which a geologist would call granite, yet one would be hard and angular, and the other softer, and more or less decomposed; the miners pronounce the angular one to be very unfavourable, the one with an earthy character to be "kind" or favourable. And if we look at the evidence given I think there can be no question about it; there is a great deal in this argument of the importance of physical condition, not as applying to granite only, but also to many other classes of rocks. In Cornwall and Devon the miners are always very apprehensive when they approach a different kind of rock from that in which they have been successfully working; they fear that the vein may cease to yield, or yield in less proportion, and this is not without reason. As a rule the tin ore is more especially found in the granite, and copper ore in the slate. If you look at this large map of Cornwall you will see that the whole of the mining districts are aggregated within a small belt of ground around these elevations of granite. The lodes will be found within

worked in the centre of the granite tracts, the chief aggregation is round the edges near the junction with the killas. The famous Comstock lode of North America has one wall of a dioritic rock, to which the name of propylite has been given, and the other wall is of a syenitic rock called andesite. The Mexican and Hungarian mines come near to this in point of character, and they consist frequently and in great proportion of dioritic rocks, in which, instead of bright lustrous crystallised particles, you find an earthy character about them. This is quite analogous to the case of the granites above mentioned, where, instead of the bright vitreous lustre of the felspar, it has an earthy appearance. A pamphlet was published some time ago by Capt. C. Thomas, of Dolcoath Mine, in which he insisted most particularly on the attention which ought to be given to these facts, especially in connection with ores of tin.

Turning to the clay-slate rocks, the same holds to a great extent. If you have a strong, durable rock, very readily fissile, you are not likely in that to meet with anything ore-bearing, and as you approximate to that so do you lose the probability of finding good ore. On the other hand, if you take a series of specimens of killas from different productive districts, you will find in general that they exhibit pale buff and grey tints, and have a sort of earthy character, very frequently with a little crystalline structure about them, which appears as you approach the granite. Where you see these characters it is very often the case that you may find the speciality in the copper ores to be, if they occur at all, to yield red and black oxides and carbonates, whereas if you follow them into the darker killas the ore not unfrequently changes into the more common one—copper pyrites, or yellow copper ore. I will mention one other remarkable case in Norway, in the district of Kongaberg. The district there consists of hard metamorphic slates, while in a north and south direction run what are called "fahlbands"—a ha lowed down to a depth of 200 ims; but whenever they are lonlowed into the harder schist of the country they produce nothing. These examples might be greatly extended if it were necessary, but I think I have mentioned sufficient to show you the general character of their teaching; and also we must bear in mind that the indications in different districts are not always conformable.

IMPROVED ANNEALING POT.—The invention of Mr. CHARLES WILLIAMS, of Carliff, consists in constructing the pot and stand of a combination of wrought and cust inou in lieu of the usual material, and in disposing and shap-

ing such combined material, so as to form the pot (by preference of a rounded ob-long form) with a combined arched and fluted top. It further consists in slightly dividing with hoop iron, and parting or breaking each side of the stand-flange when in the mould.

MINING AND STOCK EXCHANGE NEWS OF THE WEEK.

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HYDRAULIC GOLD MINING.—In our last notice it was pointed out that some persons have argued the Big Blue Lead never was a river, but that this theory was untenable. The Big Blue Lead has all the marks which a dead river should have. It has a long course and width nearly uniform—a course nearly straight, some bends with eddies on the inner side; a peculiar quartz unlike any found in the neighbouring ridges, or in the streams to the eastward, and bands of quartz which no place now known to us could have supplied, and which came probably from a distant northern region now covered with lave, waterward gravel, which must have been carried for with lava; water-worn gravel, which must have been carried far, flat stones pointing down stream as a current would place them; strata, of course, and fine gravel, which must have been deposited in a stream; uniform descent and grade; coarse particles of gold which could not have been distributed so evenly over a wide channel excepting in a strong current; immense quantities of gold which required ages to scatter through a deposit 300 ft. deep; drift-wood unmistakably water-worn; trunks of trees with bodies up stream; tributary brooks, and a number of other evidences which would require more space for the description and explanation than could be spared. To say that the Big Blue is not a dead river is equivalent to saying that the bones of the mastadon never belonged to a living animal, but were found under geological influences exclusively. If this were the only dead river in California the proof would be less

forms a much smaller percentage of the gravel. In some of the dead rivers a large proportion of the boulders and pebbles is of lava and basalt, as if the streams had been formed after the commencement of the volcanic era. But different as is the material of the gravel the fluvial origin of the deposits is similar and indubitable in all of them whem they are considered together.

the fluvial origin of the deposits is similar and indubitable in all of them whem they are considered together.

BLUE TEXT HYDRAULIC CONSOLIDATED (Gold),—Shareholders in the various gold-washing companies will receive with satisfaction the announcement from all sources (including our own private advices) that the approaching water season looks flattering. It has been years since there was so much activity in the gold-washing districts, and it is a pleasing fact that the demand for water will be greater than ever before. This is especially encouraging to shareholders in Blue Tent. Professor Price (the manager of Blue Tent), under date Nov. 15, writes:—"That he has prepared all the work necessary to commence operations on the South Yuba and Enterprise claims, and also that all necessary work has been prepared on the Blue Gravel claim." This is one more claim that had been reckoned upon: 3000 in, of water will be used this season, which is by no means up to the capacity of the canal. Professor Price says:—"The company can congratulate itself upon having a complete property—a large and extensive gravel bed of undoubted value, an independent and free source of water, and good and capacious outlets." These are the sole conditions necessary to establish a highly successful hydraulic mine. Professor Price further says—"The company have a first-class property." The most moderate estimates confirm the statement that 15,000,000. for value exists in the area of the Blue Tent property. A prudent estimate also fixes the return at 40,000. to 45,000. per annum; the available flow of water is the practical limit to the average annual return. This description of property ought to attract the attention of careful and prudent investors, and the more so that it is not attractive to speculators. (4, 4½.)

RICHMOND CONSOLIDATED (Silver).—The run cabled this week of \$50,000 may be accepted as an indication of an improved grade of ore. That no dividend has been declared since May naturally gives a semblance of probability to the absurd

the actual profit for the last four months far exceed the most sanguine expectations. The mine has also so much improved, in consequence of the miner-like way operations have been carried on during the 12 months, that the manager recently stated it was worth fully 20,000% more than when he was placed in charge on Nov. 7 last year. This, together with the improved price for blende, of which the mine is in a position to make increased returns, appears to justify the opinion that the next four months will result even more favourably than the last.

WEST MARY ANN.—Some 12 months since operations were commenced in the West Mary Ann sett, which runs parallel with the old Wheal Mary Ann, which was long and successfully worked, no less than 71%. having been returned in dividends on each 8% expended. As the setts almost join equally satisfactory results are anticipated from the new adventure, which is divided into 3000 shares, upon which 3s. 6d. has been paid. The mine is situated in the parish of Menheniot, most of the mines in which have proved highly remunerative. At the recent meeting the accounts showed a debit balance, the mine being at present in process of development only, of 24% 13s. 2d., to cover which and provide for the further prosecution of the mine a call of 1s. per share was made. As the costs are under this were the only dead river in California the proof would be less conclusive, but there are a dozen others which are marked with similar general characteristics, save the gravel is finer, the pebbles in the upper strata being generally not larger than a pigeon's egg, and have short courses or shallow deposits of gravel, and the quartz

nience is occasioned to the company. The agent's report will be found in another column.

MAGNETO-ELECTRIC BELL SIGNALLING APPARATUS.

MAGNETO-ELECTRIC BELL SIGNALLING APPARATUS.

The signals given by electric bells have generally been brought into action by means of batteries, but Messrs. SIEMENS BROTHERS, of Queen Anne's Gate, Westminster, state that that method has proved to give reasons for continual complaint on account of frequent interruptions, the batteries requiring so much attention and renewal from time to time. The result has been that, although electric bell signalling has been considered to have much to recommend it, it has not been generally adopted in the many branches where it would seem to be of great use. In a very large number of cases communication by bells is found to be a great convenience and assistance, and in the working of collieries for signalling up and down shafts, on self-acting inclines, &c., they are in very common use, and Messrs. Siemens Brothers contend that electricity has superior advantages as compared with the usual system of wires and cranks, although in many cases batteries are objectionable.

With a view to fulfil the requirements for reliable bell signalling byfelectricity between two distant points, Messrs. Siemens Brothers some years ago constructed a magneto-inductor in combination with a powerful alarum of two bells, each 4 in. in diameter. The inductor contains six permanent magnets, between which a Siemens' armature is made to revolve by means of a handle, thus generating currents which act upon the bells. This system, they maintain, does away with the difficulties and shortcomings of bells worked by batteries, as the magneto-apparatus is of constant and unchangeable power, is portable and protected against damp, and is not so liable to be damaged by rough handling as batteries are. By this arrangement the necessary provision for signalling both up and down a shaft can be made for little over 21l., and it is explained that to give a signal to the distant bell it is only required to turn the handle of the inductor at the place from which the signal is sent. This inductor, including its own bells ing end. The instruments are very compact and ornamental in ap-pearance, and are so strongly made as not likely to get out of order.

EXPLOSIVES FOR BLASTING IN MINES.

EXPLOSIVES FOR BLASTING IN MINES.

The conclusive evidence that has been obtained that dynamite used as a blasting agent is more than thrice as strong as the best quality of ordinary blasting power exploded under the most favorable conditions has led miners to give far more attention than heretofore to the question of explosives applicable to blasting. As the high quality of Curtis and Harvey's blasting powder is known wherever mining operations are carried on, it will be well to take this as the standard powder may be assumed to possess 100 units of blasting force—10 grammes, then, of the powder is equal to the 100 units mentioned. The same firm also manufacture what they term "extra strong," and carefully made ballistic experiments have proved that this, exploded with a detonator, is capable of developing 165 units of force. This appears to be about the best result that can be got with gunpowder, but as there are half-a-dozen other explosives which are claimed to be applicable to blasting purposes, it will be interesting to know their zelative strength, so that their price in the market being known the economy of using one or the other can be readily ascertained. The fulminate of mercury possesses 185 units of force, but is not applicable as a blasting agent. The other blasting explosives, if compressed guncotton and patent cotton gunpowder be excluded from the list, have all nitro-glycerine as one of their constituents, and frequently the other constituents seem to interfere with rather than assist the action of the nitro-glycerine. Taking what may be called the new explosives in the ascending order of their force, it is found that a mixture of eight parts mealed gunpowder, with two parts of nitro-glycerine, has a strength of 295 units. Lithofracteur, with 55 per cent. nitro-glycerine, and 45 per cent. of other ingredients, is equal to 300 units. The patent cotton gunpowder developes 360 units of force. Dynamite and compressed guncotton each possess 415 units. A mixture of guncotton and nitro-glycerine in eq The conclusive evidence that has been obtained that dynamite

Dynamite appears to be the best of the new explosives, not only because it possesses great force, but also because its combustion is so instantaneous and complete, for, as Mr. Nobel has remarked, of two explosives the more powerful one may, for want of quickness of combustion, be the less efficacious for blasting, and it becomes a two explosives the more powerful one may, for want of quickness of combustion, be the less efficacious for blasting, and it becomes a matter of considerable importance to possess a ready means of overcoming the drawback of the slow action. That problem has been solved by adopting a special mode of firing explosives, known as the detonating ignition. It consists in applying a strong local explosion of a spark or flame, and it modifies in a remarkable degree the natural quickness of combustion exhibited by explosive substances. It is especially in connection with nitro-glycerine that this mode of ignition has led to remarkable results, and it was to suit the peculiar nature of that substance that it was invented. Nitro-glycerine, indeed, without that special firing, though it is an explosive, is no blasting agent, as it cannot be applied with any degree of cortainly that it will go off. Not so when fired by a local explosion. It not only detonates without any confinement, but it affords an extraordinary facility for setting off substances which without its aid are absolutely inexplosive.

With regard to the manner in which the detonator cap acts, Mr. Nobel admits that it is not easily explained, but mentions that some attribute it only to the heat produced by compression, some only to the heat of the gas given off by the fulminate of the cap, and others, again, to the dissociating power of a strong vibration. It is not, Mr. Nobel thinks, unlikely, at least in some instances, that all those influences are brought to bear on the explosion, but it would be very difficult indeed to compute the part contributed by

all those influences are brought to bear on the explosion, but it would be very difficult indeed to compute the part contributed by each. There can be no doubt as to the dislocation of certain unstable compounds of vibration alone, since the slight shock which sets off chloride and iodide of nitrogen, perchlorate of ethyl, &c., cannot possibly raise their temperature even locally to the degree at which they explode. Even in the case of nitro-glycerine, which exhibits no such extreme sensitiveness, direct experiments have shown that very violent vibration can cause it to explode. But if vibration alone suffices to set off nitro-glycerine, it is still less doubtful that heat alone will do it. Not only does it detonate when raised to the temperature at which its constituent elements dissociate, but a minute charge of gunpowder, so slightly confined that the gas which it perature at which its constituent elements dissociate, but a minute charge of gunpowder, so slightly confined that the gas which it produces has a very feeble tension, never fails to make it detonate. It suffices, indeed, to apply heat in any shape, so that it acts upon a very large surface of nitro-glycerine, for then the gas evolved can no longer escape as quickly as it is produced, and the pressure, accumulating with immense rapidity, brings on the explosion. Nitro-glycerine preparations and guncotton cannot be brought to detonate cumulating with immense rapidity, brings on the explosion. Nitroglycerine preparations and guncotton cannot be brought to detonate by such means, but go off easily under the influence of a sharp local explosion, such as produced by a fulminate. Two opposite tendencies are here at work, one to set off the explosive, acting on it by heat, vibration, or whatever cause it may be, and the other to throw it away by the propelling impulse due to the expanding gas. Both must be extremely quick in operating, and it is, therefore, easy to

see how a slight, apparently insignificant, difference may turn the scale, and cause an explosion or missfire. For instance, in grinding chlorate of potassium and sulphur with care in a mortar, a series of small detonations take place, which do not spread, but a somewhat stronger blow or friction will set off the whole. Evidently in one case the propelling power is preponderant over the igniting ten-dency, in the other it is not. Even the quickest substance requires time to get heated, and unless the velocity implanted allows that

time to get heated, and unless the velocity implanted allows that time combustion cannot take place.

With reasonable care there appears to be no real danger in using either dynamite, compressed guncotton, patent cotton gunpowder, lithofracteur, or similar explosives, and where time is an object and there are facilities for deep boring, the rock being of more than ordinary hardness, the advantage of using them cannot be questioned, but opinions still differ as to the desirability of very strong explosives in weak rock, the very common view being that in those cases much of the power is lost. The grounds for such a supposition may, however, well be questioned, the reason of the apparent loss probably being that the miners are disinclined to use so small a charge as is sufficient. But, considering the units of force above mentioned, this difficulty may readily be overcome. Dynamite being rather this difficulty may readily be overcome. Dynamite being rather this difficulty may readily be overcome. Dynamite being rather more than four times as strong as ordinary powder, or as 415 is to 100, it follows that whenever a ½-lb. cartridge of ordinary blasting-powder would be used 2 ozs. of dynamite will be slightly more than sufficient, so that more than that quantity should on no account be used. The same calculation would apply for other explosives, and if it were generally made the result would be that all the explosives worthy of a place in the market would acquire their proper position.

THE SCOTCH MINING SHARE MARKET-WEEKLY REPORT AND LIST OF PRICES.

THE SCOTCH MINING SHARE MARKET—WEEKLY
REPORT AND LIST OF PRICES.

During the past week there has been an improvement in the amount of business trensacted, under the influence of which prices have generally improved. In shares of iron and coal concerns the only adverse movement is a fall of 2 in Nant-y-Glo and Blaina preferred shares, owing to the desponding state of affairs at the meeting. The following have each improved to the extent noted:—Benhar, #; Benhar new, #. Bolckow, Vaughan Ashares, #; Ebbw Vale, \$4, Monkland preference, \$4; Omoa and Cleland, 1s; and Scottish Australian, 3s. Chapel House is lower, at 3½ to 3½. Whitehaven Iron, 3%, sellers. In shares of copper concerns there have been large dealings, the only adverse movement is a fall of 4s. on Huntington, owing to the report (given elsewhere) issued by the committee of investigation. Cape (38½) is ½; Panulcillo (1 to 1½), \$4; and Russia (3¾ to 3¾, ½; all higher. Tharsis (21) is 1½ higher for the week, though it at one time touched 2½½, on various rumours, but chiefly owing to "bears" closing; Tharsis new shares have also improved 1. In home undertakings prices are:—Bale of the state of the state

haven Iron, 3%, sellers. Young's Paraffin, 7½ to 7½. Scottish Wagon shares lower, at 10½ to 10½.

On Turspax the market was quiet. Argentine, 7½ to 7½. Benhar shares done at 11, closing 11 to 11½; new shares done at 5½, closing 103s, 6d, to 103s, 9d. Chapel House, 3½ to 3½; Drake Walls, ½, sellers. Frontino and Bolivia, 38s. 3d., sellers; Gunnislake (Clitters), 56s. to 68s. Huntington shares done at 26s. London and Glasgow Engineering shares done at 21. Marke Valley, 3½, sellers. Mammoth Capperopolis of Utah. ½ buyers. Monkland (ordinary) shares done at 49s. 6d. and 50s., closing 49s. to 41s. Omoa and Cleland, 2½ to 3. Richmond shares done at 8½ and 8½, closing 8½ to 8½. Russia Copper, 3½ to 3½. Santa Borbara (late Parl) shares higher, at 18s. 3d. to 20s. 9d. Tyllwyd, 1½, sellers. Tharsis shares done from 21½ to 21½, and then from 21½ to 21½; use whares done at 14½. West Esgair Lle, 1, sellers. Whitehaven Iron, 3½, sellers. Young's Paraffin, 7½ to 7½. Scottish Wagon (all-paid), 10½ to 10½.

21/5 to 21/5; sellers. Woung's Paraffin, 74 to 71/5. Sottish Wagon (all-paid), 10/5 to 10/6.

HUNTINGTON COPPER AND SULPHUR COMPANY (Limited),—The report of the committee of investigation appointed by the shareholders of this company to examine its affairs has been issued. Accompanying it are three appendices, the engineer's, and the accountment of the six months' working from January to June, 1875. It shows the cost per month, embracing all charges against the ore from the time it is lifted at the mise till its delivered in the form of precipitate to the purchaser in this country under the heads of (a) works' cost, (b) raw ore, and (c) carriage, freight, &c., the rate per unit, the quantity of copper produced, the price realised, the amount thereof, and the balance of profit or loss, which thus brought out is a loss for the six months of 1284. Appendix No. 2 is an abstract of monthly return cost from January to June, 1875, ander 15 different heads, with the cost per unit of copper under each of them. Appendix No. 3 is a comparison of Capt. Rodda's estimate cas given the last annual report), with the actual results of the six months' working from January to June, 1975, showing that Capt. Rodda had made a mistake of no less than 3s, 113/4. Per unit in the calculations by which he arrived at the favourable set mates then held out to the shareholders. The engineer's report is by Mr. E. Gaujot, of Montreal, a gentleman of reputation in copper mining; its blength, however, precludes more than a few extracts being made from it here. He says—'I do not think the mine has sever paid, but could be worked to pay if brought to a capacity of 16,000 tons at least per annum, and by utilising all the minerals, copper, sulphur, &c. The property was never such as to warrant any, or a superior of the company. The property was never such as to warrant any, or a superior of the company of the properties of the properties of the property worth tons of called 1/2 per cent. or which is valueless, as it would cest more for labour the p HUNTINGTON COPPER AND SULPHUR COMPANY (Limited),-

the future board whether these works should be reconstructed. Other processed may be found suitable to this class of ore; and as nothing can be done during the winter, it would, perhape, be as well to dehy prings to any definite decision at present." The committee then detail some partial to the directors, especially Mr. Bain, the Chairman. Mr. William Henderson has throughout the committee entirely, but in reply to an application to him from the favored the committee entirely, but in reply to an application to him from the promotion of the company, which is very disparsging to the directors, especially Mr. Bain, the Chairman. Mr. William Henderson has throughout of the committee, his London solicitor wrote them that he never received any promotion-money whatever, and calls attention to the following statement in the promotion-money whatever, and calls attention to the following statement in the processes, when fully develoded at Irvine, which will very much increase the profits of the company, and sest that for the advantage thus accorded by Mr. Henderson to the company, and from the benefits the company would derive from his technical skill and experience (which have been unceasingly devoted to the company—quied distinct from the duties of a director—at great inconvenience, with very considerable loss of time, and without any other remuneration) the vendors paid him 10,000. The law agents of the committee of investigation, in their reply to the letter, point out that the datus in the original prospectus, to which Mr. Henderson's solicitors attach so much importance, merely relates to a possible future arrangement with Mr. Henderson and his pat them. Mich was suever entered into. The committee do not fand associated as a superience, and certainly the sompany and interest theorem, but no further communication having been received from Mr. Henorest theorem, but no further communication having been received from Mr. Henorest theorem, and the proper time this would have been abundantly evident to fund any present

The following are this week's prices of some stocks, shares, &c., occasionally dealt in on this market, but not quoted (with few exceptions) on any of the Scotch Stock Exchanges:—Iron, Steel, and Coal Companies: Andrew Knowles and Sons, 24 to 24½; Bolckow, Vaughan, & Co. "B," 42 to 42½; Britannia Ironworks, 10; Cardiff and Swansea Steam Coal, 2½ to 2½; Chapel House Colliery, 3½ to 3½; Consett Iron Ore, 20½; Gauley Kanawha Coal, 5, sellers; Great Western Colliery, 12 to 13½; Gellydeg Colliery pref., 9, sellers; Ifton Rhyn Colliery, ½ to 1; Lehigi and Wilkes Barre 6 per cent. first mortgage, guaranteed by Gentral Railroad of New Jersey (U.S.), 92 to 94; Llynvi, Tondu, and Ogmore Coal and Iron, 3½ to 12½; Llynvi Valley Colliery, pref., 9, sellers; Horn Rhyn Colliery, ½ to 1; Lehigi and Wilkes Barre 6 per cent. first mortgage, guaranteed by Gentral Railroad of New Jersey (U.S.), 92 to 94; Llynvi, Tondu, and Ogmore Coal and Iron, 3½ to 12½; Llynvi Valley Colliery, pref., 9, sellers; Horsey Steel and Iron, 4½ to 5; Mwyndy Iron Ore, 2; Newport Abercara Colliery, 4 to 15; Ecottish Australian new shares, ½ to ½; Uverstone Mining, 10½ to 11; West Cumberland Iron and Steel, 11½ to 13½; Ewbern Mining, 10½ to 11; West Cumberland Iron and Steel, 11½ to 13½; Ewbern Mining, 10½ to 11; Deade Mila, 2½, sellers; Copper, Lead, Tip, &c., Co.'s; Bedford United, 1 to 1½; Bensberg Lead, 3½; to 4; Bowden Hill Manganese, sellers; Cook's Kitchen, 6 to 6½; Copiapo Mining, 3½; to 12; East Walley, 3½, sellers; Dolcoath, 40 to 42; Drake Walls, ½, sellers; East Caradon, 1½ to 2; East Walley, 3½, sellers; New Consols, 1½, sellers; Elgar, 1, sellers; Great Laxey, 15 to 16; Great West Van, ½ to ½; Grake Walls, ½, sellers; Marke Valley, 3½, sellers; New Consols, 1½, sellers; New Gonsols, 1½, sellers; Marke Valley, 3½, sellers; New Consols, 1½, sellers; Marke Valley, 3½, sellers; South Condurrow, 5½ to 6; South Roskear, 1½, sellers; Van, 28 to 29; West Basset, 4½ to 5½; West Esqair Lle, 1, sellers; Want Forksone, 8, sellers; West Poldiee, 16; West

HOLLOWAY'S OINTMENT AND PILLS—COLDS, COUGHS, SHORTNESS OF BREATH.—These corrective remedies are infallible for these pectoral com-HOLLOWAY'S CINTMENT AND PILLS—COLDS, COUGHS, SHORNNESS OF BREATH.—These corrective remedies are infallible for these pectoral complaints, which neglected often end in asthma, bronchitis, or consumption. The Ointment well rubbed upon the back and chest, penetrating the skin, is carried directly to the lungs, whence it expels all impurities. All the blood in the body constantly passes through the lungs, and there all noxious particles tending to produce disease can be quickly, thoroughly, and permanently neutralised, rendered harmless, or ejected from the system. In influenza and all chest complaints early curative measures are imperiously demanded; one day's delay may cause a protracted illness, one week's neglect may consign the diseased to destruction.

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Date.	Mines.		Fon		Price	per	r to	n.	Purchasers.
Dec. 2-	Great Laxey .	*********	50	*******	. £24	13	0		Nevill, Druce, and Co.
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3-	Glan Clwyd		10	******	. 13	16	6		Adam Eyton.
	South Darren . Talargoch-					17			Nevill, Druce, and Co.
	Maesyrewdd	u	223	£	. 15	3	6		Walker, Parker, and C
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	Coetia Llys .	*********	30	*******	. 15	8	6		Walker, Parker, and C
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_	Prince Patrick	*******	50		. 15	3	6	*****	Adam Evton.
	Halkyn Deep 1					8	6		Walker, Parker, and C
_	Rhosesmor	*********	15	*******	. 13	14	6		_
_	Roman Gravel		50		. 14	16	0		Nevill, Druce, and Co.
-	ditto	********	50		. 14	17			
-	ditto	*******	50	*******	. 14	14			Panther Lead Company
-	ditto	*******	50		. 14	14	0	*****	Burry Port Company.
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Date.	Mines.	T	ons	. 1	Price	per	10	n.	Purchasers.
Dec. 6-	Talargooh		320	*******	£ 5	13	0		Bagillt Smelting Co.
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There 0	Claush Danner		9.0		0 0	9.0	0		Nevill, Druce, and Co.

RICKARD AND GLEDHILL. MINING ENGINEERS AND ASSAYERS, 3, BLOMFIELD STREET, LONDON WALL, E.C.,

BRYDON AND DAVIDSON,

ENGINEERS

WHITEHAVEN. IRON AND BRASS FOUNDERS.
MAKERS of all kinds of BOILERS; PUMPING, WINDING, and HAULING

ENGINES, and MINING MACHINERY generally AIR COMPRESSORS, CRANES, CRAB WINCHES, MORTAR MILLS, PUMP PIPES, &c.

CASTINGS OF ALL KINDS.

SULPHATE OF BARYTES FOR SA From Lime and Metallic Oxide.

Samples on application to—

RUTHWAITE BARYTES MINING COMPANY, Nov. 17, 1875. WHITEHAVEN.

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Meetings of Bublic Companies.

PONTGIBAUD SILVER-LEAD MINING AND SMELTING CO.

pontgibaud silver-lead mining and smelting co.

The annual general meeting of shareholders was held in Paris on Nov. 30, when the reports and accounts for the year ending June 30 were received and approved. The profits for the twelve months had amounted to 32,047l. After deducting from this amount the sums written off plant and the royalties, &c., the net profit for the year was 24,462l, or about 1240l, more than the preceding year. On the proposition of the Conseil d'Administration, it was decided to write off the sum of 4800l, or nearly the total of the sum standing to the debit of the account for trials at the new concessions, after which, and providing for the share of the profits due to the Conseil, there remained 18,439l. Adding to this the amount at credit of profit and loss from last year, the total balance was 18,303l. The dividend for the year 1874-75 was fixed at 45 f. per share, absorbing 18,000l. The sum of 15 f. on account of this dividend was paid in June last, and the balance of 30 f. (or 1l, 3s. 2d. per share) is now in course of payment. The report of Messrs. Taylor, the engineers-in-chief of the company, stated the satisfactory fact that the discoveries of ore during the year rather exceeded the quantity raised.

overies of ore during the year rather exceeded the quantity raised.

THE EMMA MINE COMPANY.—An adjourned meeting was held, on Wedneday, in the Cannon-street Hotel; Mr. M'Dougal in the chair. There were very tew persons present.—The Chairman said the present board of directors knew meeting the strength of the shall see the company, and they had been unable to come to any sort of inowledge of the business. Only last night he received a letter from the late solimor of the company, Mr. Turner, showing some connection between him and Mr. Albert Grant, and the proposal of the board now was that the meeting should be adjourned until Jan. 7.—A shareholder asked if the old directors held the shares, or had they sold them.—The Chairman said one of the old directors, Mr. Hamond, Mr., had transferred his shares for a consideration of 5 per cent. to Mr. R. M. Taylor. They had written to Mr. Hamond for an explanation. Mr. Hamond dion, apparently, consider it necessary to explain at present.—The meeting was adjourned to Jan. 7.

WHEAL RUSSEL MINE.—At the four-monthly meeting, held at Taylstock, Mr. F. W. Heading presided. The accounts for the 16 weeks to Sept. 3, showed that 374 tons of copper ore had realised 1234/2, 9s. 5d.; and the expenditure for lacour amounted to 879/. 0s. 10d.; merchants' bills, 132/. 18s. 9d.; lord's dues, 14/. 7s. 9d.; balance from last account, 50/. 4s. 9d.; leaving a balance of 971. 17s. 4d. in favour of the adventurers, and a profit of 148/. 2s. 1d. on the four months' working. Captain Bray's report on the present state of the mine was considered guisfactory.

For remainder of Meetings seet to-day's Supplement.]

ng. Captain Bray's report of Meetings see to-day's Supplement.]

FOREIGN MINES.

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Lehigh road of 23½ to 5; to 5; to 5; to 10 Iron stralian ron and , Co.'s: ese, ½, sellers; t Wheal at West; Killi-

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FOREIGN MINES.

ST. JOHN DEL REY.—Telegram, dated Rio de Janeiro, Dec. 3; Produce ten days, second division of November, 18,000 oits.—7168. Xield, 89 oits, per ton. DON FEDRO.—Telegram, Dec. 9; The produce for the month of November amounts to 4300 oits., and that there is still a deficiency of surface water retarding an income of the mine, but there is not surface water sufficient to commence sinking. All works is the mine going on an susual. On the cith inst. we changed one of the iron rods userface on the mine, but there is not surface water sufficient to commence sinking. All works is the mine going on as usual. On the cith inst. we changed one of the iron rods userface on the mine still amounts to 20-57 cubic feet per minute. From our expectations in the mine no surface water sufficient to commence sinking. All works are sufficient to the mine still amounts to 20-57 cubic feet per minute. From our expectations in the mine os mile retards, when the commence of the commence

ALMADA AND TIRITO.—Extract from letter from Mr. Breach, Sept. 9: Providenda: We have commenced to sink the winze from the 20 to the 32, mentioned in my letter last week, in a place that in driving the 20 gave indications of ore, and below which we had ore in the 32. The ground is very easy; in fact, it requires timber. As we go down the ore rather improves. While I write a stone of very fine black ore is just sent out from the cross-cut east in the tunnel, mentioned by me inletter No. 36 as commenced. We have driven 15ft. from the tunnel through hard close rock. For a day or two we cannot tell what this ore may be, but the 54r look every promising, and the ore, judging from the copper visible in it, is 16h. The exact position of the ore is 420 ft. north of the Tirito boundary and Providence in the state of the tunnel is not the east wall of the Providencia Mine, and therefore we have a chance of meeting with ove throughout the hitherto supposed barren ground borth of the Tirito Mine.

— Extract from letter from Mr. Breach, Oct. 14: Docile Ores: In consequence of the diminution in the quantity of green ores, pending discovery, the mill now has to run part of the time on black ores only, and green smalls for concentration, and I believe we can keep it fully employed until the black ore is limited by the power of the engine underground, as, with the exception of the Purisiona ores and the 96 from the new east lode, all has to be wound up the Tirito shaft. We are working the engine up to its full power. Of course, this is only for a short time, until lab 15 m. level in Mina Grande commences to yield, and which we have a right to expect to receive assistance from daily.—Tirito Mine: The shirking of the engine-shat below the 32 was commenced on the 11th, and will be continued without interruption. The new pumps being in place and working well, I do not anticipate the decays that we were subjected to while sinking the other lifts in this shaft. The black ore stopes o

More. We are now cutting out the remaining ore, and letting down the timbers and waste from the works over.

Providencia: In the winze sinking from the 20 to the 32 we still have some green etc, and we this week commenced to rise in the 32 in order to hole quicker, and and that ore is making to the south of the rise; it appears to be about 3 ft. wide, of fair green ore. I do not expect it to widen, nevertheless it will be a help to as at the present time, and as soon as the rise is holed, which I expect will be

there weeks, or a little more, we shall commence a stope in the back of the 197 there is a chance of the policy up some little distance. The new and lode, over 197 there is a chance of the policy up some little distance. The new and lode, over 197 there is a chance of the policy of the lode. Liars good hopes of this side, go outley is the extreme morth policy of the lode. Liars good hopes of this side, go outley is the extreme morth policy of the lode. Liars good hopes of this side, go outley is the extreme morth policy of the lode. Liars good hopes of this side, go outley the policy of the policy

may be frozen up if it continues much longer. The samplings have amounted to Ida ARES.—Dec. I. Pezo Ancho Mine: The lode in the 100 cast of Warrafe sendine-shaft a large and strong, yielding I ton lead one per fathom. The same level west is moderately easy for driving, but yields no ore to values. The lode in the sendine-shaft a large and strong, yielding I ton good hard. The lode in the sendine-shaft is a large and strong, yielding I ton per fathom. The lode in an elected seat is small, promising idea, worth ton per lation. The lode in same level seat is small, promising idea, worth ton per lation. The lode is a manufact of the per lation. The lode is the sendine-shaft, below the 90, the men are making excellest progress. No. 200 wines is holde to the 35; the long is not per lation. The lode is not not be sendine-shaft, below the 90, the men are making excellest progress. No. 200 wines in lode to the 35; the solid is cone of ore. [No. 254 wines, below the 55, is going down in a promising idea, yielding 15; ton per fathom. The lode in No. 250 wines, below the 56, is related to the sendine-shaft progress. No. 200 wines in lode lot the 50; the sendine-shaft progress. No. 200 wines in lode lot the 50; the sendine-shaft progress of the sendine-shaft progress. No. 200 wines holded to the 50; the lot of the 100 wines. The lot of the 100 wines were lot of the 100 wines. The lot of the 100 wines were lot of the 100 wines. The 100 wines were lot of the 100 wines. The 100 wines were lot of the 100 wines. The 100 wines were lot of the 100 wines. The 100 wines were lot of the 100 wines. The 100 wines were lot of the 100 wines. The 100 wines were lot of the 100 wines. The 100 wines were lot of the 100 wines. The 100 wines were lot of the 100 wines. The 100 wines were lot of the 100 wines. The 100 wines were lot of the 100 wines. The 100 wines were lot of the 100 wines were lot of the 100 wines. The 100 wines were lot of the 100 wines wines were lot of the 100 wines. The 100 wines were lot of the 100 wines wines were lot of

COPPER ORES. Sampled Nov. 24, and sold at Swansea, Dec. | TOTAL PRODUCE. | Berehaven | 289 | £2200 18 0 | Cronebane Ore | 157 | £249 4 6 | Union Ore | 252 | 537 2 0 | Knockmahon | 139 | 771 0 0 Cape Ore | 236 | 6223 7 0 | Ballycummisk | 100 | 579 17 | Betts Cove Ore | 228 | 1088 14 0 | PERUVIAN TIN ORE SOLD IN LIVERPOOL on Dec. 1.

6½ tons, 45%. 10s., Daubuz and Co.: 5 tons, 41%. 7s. 6d., Daubuz and Co.: 5 tons, 41%. 7s. 6d., Michell and Co.: 1 tons, 44%. 10s., Daubuz and Co.: 5½ tons, 46%. 7s. 6d., 9%. The filtings, Harrey, and Co.

PENALLT SILVER LEAD MINING COMPANY .- A further dividend of 5s. in L., making 1ss. 6d., including the two dividends already paid, is now payable to the creditors of this company by the official liquidator, Mr. J. H. Tilly, at the offices of Messers. Tilly and Co., Victoria Buildings, Queen Victoria-street.

ST. AGNES CONSOLS.—The 72 fm. level, driving west of south cross-out, still continues to improve, and the lode if worth W. per fathorn for tin. The prospects of the mine are evidently getting better, but the most interesting point has yet to come off—the cutting of the Whell Kitty lode.

Registration of New Companies.

The following joint-stock companies have been duly registered:-The following joint-stock companies have been duly registered:—MARPLE COAL AND FIRE-CLAY COMPANY (Limited).—Capital 40,000., in 50. shares. To acquire and work seams and beds of coal under the Barnsfold, Doodsfield, and Lomber Hay Estates, Marple, Chester, according to an agreement made between T. Wainwright, of the first part, G. Payne and W. Stirrup of the second part, and J. Hargreaves on behalf of the company. The subscribers are—J. Hargreaves, 2, Church-street, Blackburn, tobacconist, 20; W. H. King, Peel Buildings, Blackburn, slik mercer, 20; W. Stirrup, Blackburn, boot manufacturer, 30; G. W. Payne, Kenedy-street, Manchester, 30; T. Wainwright, Birch Cottage, Poynton, colliery manager, 1; R. H. Wainwright, Birch Cottage, 1; W. H. Durham, Chorlton-on Medlock, accountant, 1.

**SUNNYSIDE LEAD MINING COMPANY (Limited).—Capital 32,000., in 2.*

shares. To acquire the Sunnyside Lead Mine, at Wolsingham, Durham. The subscribers (who take one share each) are—S. M. Wotton, 6, Devonshire terrace, Kensington, accountant; W. F. Huxley, jun., 34, Leadenhall-street, shorthand writer; A. M. Molina, 147, Leadenhall-street, translator; 21, Dunbar, 15, Bennett's Gorve, Peckham, accountant; T. Bull, 18, Brunswick-street, E.C., traveller; J. Jolly, 97, Victoria-road, Kentish Town; Richard Emerson, 174, Gresham House, mine agents.

mine agent in the state of the

lace-road, cashier; J. Mander, 20, Arthur-road, Brixton, clerk; H. Wallington, I. Newington Green-road, Holloway; C. F. Vines, 13, Sandringham-terrace, Totenham, clerk; C. L. Bingley, Lorraine-avenue, N. W., clerk; A. W. J. Walker, Kingsland-road.

WEST-END SAFE DEPOSIT COMPANY (Limited).—Capital 40,000/. in 10/. chares. To acquire premises in Piccadilly, for the purpose of erecting a building for the reception of valuables, &c. The subscribers (who take one share each) are—Lord R. H. Browne, Reigate; W. J. Colville, 47, Chester-square; Rear-Admiral Luard, Witham Lodge, Essex; W. H. Ingram, 6, Auckland Hill; R. L. James, 3, Lothbury; L. H. Hamliton, 9, Onslow-crescent; B. E. Hancock, 77, Piccadilly, NEW PATENT AUTOMATIC SELF-ACTING LEVER MACHINE COMPANY (Limited).—Capital 50,000/L, in 54. Shares. To acquire Letters Patent granted to W. H. White for a self-acting lever machine, to be used for properling ships and machinery. The subscribers are—W. H. White, 21, St. George's road, 25; U. Baker, 28, Pleasant-place, Lambeth, 25; Haac Fortune, 5. South street, Southwark, 25; W. Playford, 37, Pollard-road, 25; H. Bac Fortune, 5. South street, Southwark, 25; W. Playford, 37, Pollard-road, 26; G. T. Paterson, 20, Kirkwood-road, Peckham, 25; J. F. Blene hasset, 1, Vernonstreet, Clerkenwell, 25; W. O. M. Couloher, 20, Percy-road, Shepherd's Bush, 5. AGRICULTUTAL AUCTION AND AGENCY COMPANY (Limited).—Capital 60,000/L, in 10f. shares. To carry on agricultural auction sales at the Agricultural Hall, Islington. The subscribers are—Sir C. L. Young, Peterley Manor, Bucks; Alfred Gilbey, Pantheon, Oxford-street, 50; J. Adams, Stretford, Herts, 50; J. R. Bleer, Keswick Old Hall, Norwich, 50; J. Adams, Stretford, Herts, 50; J. R. Bleer, Keswick Old Hall, Norwich, 50; J. Adams, Stretford, Herts, 50; J. R. Bleer, Keswick Old Hall, Norwich, 50; J. Adams, Stretford, Herts, 50; J. Digby and C. Stansfield, of Liverpool, the vendors of patent rights of Lieblig's extract. C. C. E. F. Franklin, 24, Leadenhali-street, F. E. Bussil, 3, Warwi

The directors are—accessival of the holding of shares to the 6000/. Mr. W. H. Bell, the elder, will be the general manager.

VICTORIA STREAM TIN COMPANY (Limited).—Capital 100,000/., in 5t. shares. To purchase two leases from the Crown—one granted to L. L. Smith, and the other to John Woods—of land for the streaming on the Latrobe river, Victoria. The subscribers (who take one share each) are—G. Gouland, Tunstall Villas, Clapton, colliery owner; H. Chaton, 25, Bucklersbury, secretary; H. L. Phillips, 9, Gracechurch-street, colliery proprietor; F. Warwick, 28, Bucklersbury, accountant, J. Y. Young, 50, Shardeloes-road, Lewisham, accountant; R. Learmonth, Lavender Hill, no occupation; and Affred Kerby, 14, Great Winchester-street. The directors are—Messrs. G. Gouland; E. Hilton, Clapham Park; J. Culpan, Halifax; R. W. Wilbraham, Neville Park. The remuneration is to be 500/. per annum, and 5 per cent. upon the profits after 10 per cent. of dividend has been paid upon the capital. The price to be paid for the two leases is 88,000/.

DYFFRYN ALED COPPER AND LEAD MINING COMPANY (Limited).—Capital 20,000/., in 5t. shares. To carry out an agreement made between W. L.

DYFFRVN ALED COPPER AND LEAD MINING COMPANY (Limited).

—Capital 20,000., in 5t. shares. To carry out an agreement made between W. L. Bramwell and James Bramwell of the one part and C. E. Wilson on behalf of the company for the purchase of mines at Dyfryn Aled, Llansannan, Denbigh. The subscribers are—J. Williams, Erulait, near Denbigh, colliery proprietor, 1; W. L. Bramwell, 16, Nelson-street, Liverpool, chemist, 10; James Bramwell, 20, Nelson-street, Liverpool, chemist, 10; James Bramwell, 20, Nelson-street, Liverpool, the Robinson, Rochdale, fiannel manufacturer, 10; W. H. Heap, Littleborough, fiannel manufacturer, 10; W. H. Heap, Littleborough, flannel manufacturer, 10; The directors are—Rev. A. L. Lodge, Col. J. E. Maddocks, M. Messrs, H. Maddocks, W. L. Bramwell, J. Bramwell, W. H. Heap, and J. Robinson, WORKINGTON COLLIERIES COMPANY (Limited).—Capital 150,000., in 100. shares. To acquire coal mines now belonging to Mr. H. R. Spark, of Skersgill, near Penrith. The subscribers (who take one share each) are—J. C. Craven, St. Peter's House, Brighton, civil engineer; H. R. Shark, Sirgell, esquire; J. Warburton, 5, South Parade, Leeds, mining engineer; J. C. Jefferson, Hunslett lane, Leeds, engineer; John Abbott, Penrith, bank manager; T. P. Martin, Alrice, N.B., mining engineer, and R. Martin, Carlisle, colliery manager. Mr. T. P. Martin will be the managing director at a salary of 200. per annum and 2½ per cent, on the net yearly profits.

N.B., mining engineer, and R. Martin, Carlisle, colliery manager. Mr. T. P. Martin will be the managing director at a salary of 200%, per annum and 2½ per cent. on the net yearly profits.

EQUITY CONFERRING SOCIETY (Limited).—Capital 30,000%, in 1%, shares.
To carry on business on co-operative principles. The subscribers are—H. Brunor, High-street, Wapping, 2; F. L. Cotton, 100, Bishopgate-street, 1; G. Gibbings, 19, Alexandra Villas, Finsbury Park, 1; J. Hogarth, Chischurst, 1; W. Hodgson, 11, Gloncester-terrace, Hyde Park; T. V. Rohler, South-street, Wandsworth; W. J. Dicey, 9, Brighton Villas, Brockley, 1.

WILTS AND BERKS CANAL COMPANY (Limited).—Capital 30,000, in 50%, shares. To acquire certain rights and interests in the Wilts and Berks Canal. The subscribers are—R. Chowler, Coventry, 10; Adam Twine, Wootton Bassett, 10; S. Jones, Spratton, St. Margaret's; Thomas Turner, Spratton, 10; J. Hiskins, 10; H. Taylor, Bristol, 10; and R. Picton, Box, Wilts, 10.

BARNFIELD MILL SPINNING COMPANY (Limited).—Capital 20,000%, in 100%, shares. This is a Lancashire cotton spinning company, the object being to acquire the Barnfield mill.

DIRECT MOTOR COMPANY (Limited).—Capital 20,000%, in 10%, shares. To purchase letters patent for an improved sewing machine.

acquire the Barnneig mu.

DIRECT MOTOR COMPANY (Limited).—Capital 20,000l., in 10l. shares. To purchase letters patent for an improved sewing machine.

UNIVERSAL CO-OPERATIVE STORE COMPANY (Limited).— Capital 20,000l., in 2l. shares. For the supply of articles of general consumption. The subscribers are—H. Prans, 266, Marylebone-road, 2150; G. Seabrook, 24, Paddington street, 100; T. Hine, 34, Great Marlborough-street, 50; A. C. Prout, 1, Barnsbury-square; G. Hand, 1, Barnsbury-square, 10; G. N. West, 220, Edgeware-road; S. Wolstencroft, 25, Haelland-road, N. W., 25.

NORTHERN COUNTIES REVERSIONARY INTEREST AND INVESTMENT COMPANY (Limited).—Capital 25,000l., in 5l. shares. This is a financial company, the subscribers to which live in the neighbourhood of Liverpool.

COMMUNICATING WITH RAILWAY TRAINS.—The features of novelty in the invention of Mr. Hakon Brunius, of Bosaryd, Sweden, consist in connecting each station by a main wire attached to the telegraph posts or in other suitable position. The wire is furnished at suitable distances with arms, to which are attached a number of small wires arranged in a bundle, and the said main wire communicates with a transmitting and receiving apparatus at each station, and is connected with a battery. The locomotive engine is also furnished with a battery and transmitting and receiving apparatus, to which is attached a projecting piece in such a position that when the engine passes one of the projecting arms aforesaid contact will take place and communication be established between the engine and station, thereby showing the position of the said engine on the line, and allowing messages to be sent to and from the stations to the engine-driver.

Freding Steam Bollers.—The invention of Messre William.

and allowing messages to be sent to and from the stations to the engine-driver.

FERDING STEAM BOILERS.—The invention of Messrs. WILLIS and PEARSON, of Bradford, for constructing pumps having the barrel, valve boxes, inlet and outlet passages cast in a cylindrical form, and forming one casting. The pump is worked by a steam cylinder, the piston-rod being connected to the pump-rod by a cross-head, to which is fitted guide rods working through guides fitted to the pumps; a bracket is fitted to the guide rods, to which is fitted one end of the connecting rod, the other end being connected to the crank, allowing a long connecting rod.

The cylinder is supported on a pillar cast hollow, forming chamber The pump can be disconnected from the engine, and the and air vessel. The pused for other purpos

TREATMENT OF SULPHUR ORES.—The object of the invention of Mr. A. A. CROLL, of Coleman-street, is to subject ore containing sulphur to a certain degree of heat obtained by the passage of atmospheric air through charcoal, coke, or other carbonaceous matter in the state of ignition. For this purpose the chamber for the ignited carbonaceous matter is in direct communication with one or it may be several close chambers containing the sulphur ore to be acted upon. To facilitate the heat on the ore, such ore is previously bröken up into comparatively small particles, and these are supported on grating or reticulate work, the openings through which are close enough to prevent the particles of ore passing through, whilst they yet admit of the free passage of the fluid sulphur obtained by the action of the heat.

the action of the heat.

REGULATING COMBUSTION IN FURNACES.—The invention of Mr.—
S. MADDEN, of Heston, consists in improved mechanical arrangements, and the application of improved simple compound or hollow dampers with moveable plates attached, both of which have circular perforations or vertical or horizontal slots at any convenient distance or diameter from the centre, and are so fitted as to leave a constant annular space between the flue and said dampers, for the admission of a certain proportion of air required for the more perfect combustion of the gases evolved from the fuel on its passage from the future of the flues, fire boxes, and tubes. The plain or hollow perforated dampers and back plates are manufactured in any shape or size, whole or in sections, to suit steam boiler flues or the smallest tubes, and are composed one or both of a five resisting composition or plumbage, and where only one is so made the other is made of metal.

SMOOTH CASTINGS.—The invention of Mr. C. I., COLLIGNON of

SMOOTH CASTINGS .- The invention of Mr. C. L. COLLIGNON, of All neurs, France, consists in the manufacture of smooth and bright eastings by the substitution of tar in lieu of the pulverised coal or founder's blacking hitherto used, in combination with green sand for making iron castings.

Mining Correspondence.

BRITISH MINES.

BRITISH MINES.

ABERDAUNANT.—S. Toy, Dec. 8: The men are making fair progress in driving No. 1 adit level east, the ground is more favourable for driving, and congenial for mineral; the sulphur and blende which the lode formerly contained have disappeared, and the lode is improving for lead. We are at present breaking some saving work for dressing. The stope in the roof of this level has fallen off a little in value, and is now worth 104. per fathorn.

BEDFORD UNITED.—William Phillips, Dec. 9: The engine-shaft is progressing favourably, and the different levels are being pushed forward with all speed; the drivages at present are by the side of the lode. The lode in the 103 west is increasing in size, and is very promising. The mine throughout continues to look equally as well as reported last week at the meeting.

BLUE HILLS.—S. Bennetts, A. Gripe, Dec. 4: The lode in the 50, west of Poulyear shaft, continues much as last reported—large, and producing low quality tinstaff throughout the whole portion yet taken down. From the appearance of the lode in the eastern breast of the ground in the level over this end we expect an improvement in the 50 end shortly. In the tribute department there is not much change worthy of notice.

improvement in the 50 end shortly. In the tribute department of the change worthy of notice, BOG,—W. J. Harris, J. Barkell, Dec. 8: The water having been in the shaft and the 175 fm. level since least week, there is no change to report. The lode in the 163 east, on the south lode, is much easier for progress, and is worth 200, per fathom for lead ore. The level west, on main lode, is worth for lead and blende 160, per fathom. The ground in the cross-cut driving north in the 130 is slow for progress. The cross-cut driving south in the 115 is making fair progress. There is no particular change in any of the tribute pitches; they are yielding fair quantities of lead and blende. The severe weather still continues, and is much against dressing

The cross-cut driving south in the 115 is making fair progress. There is no particular change in any of the tribute pitches; they are yielding fair quantities of lead and blende. The severe weather still continues, and is much against dressing and surface work.

BRONFLOYD.—Dec. 8: Settings for December: Pitch No. 1, in back of the 94, to 24 men, at 990s, per ton. Pitch No. 2, in back of the 73 east, to six men, at 990s, per ton. Pitch No. 4, in back of the 52 to two men, at 150s, per ton. All these pitches are let on the condition that the crestuff is to be delivered free of cost to the company at the respective bedges. At the 10 the men are engaged sixing temporary lift, and when this is finished we shall commence driving on the lode westward. To drive castward on the middle lode, at the 40, to four men, at 81, per fathom. The principal portion of the lode is standing here at present. To drive on the same lode, at the 52, to two men, at 150s. per fathom. There is a good lode here, and we have had to-day some very fine specimens of ore from it. There is every indication to support the opinion that the middle lode will be found to be the main lode of the mine in the western part of the sett, in the direction of the No. 4 shaft, towards which we are now driving. To driven short cross-cut into the lode at the adit with a view of opening up another pitch, to two men, at 100s, per fm. We have cut some small ribs of ore here already, and in another fathom of driving will reach the main part of the lode. For the last nine days we have had very severe frost here. Pamping and drawing is going on regularly, but our lower dressing-floors are partly stopped. We sent out to day samples of \$5 tone lead ore.

CENNVER AND WHEAL ABRAHAM UNITED.—W. Thomas, J. Hammill, Dec. 3: Setting Report: Start's Engine-Shaft: To drive the 228 west by eight men, 1 fm. or the month, at 164, per fathom; the lode is 4½, ft. wide, yielding copper ore per fathom; the lode is 3 ft. wide, producing 2½ tons of copper ore per fathom. The back of this

at 5i. 5s. per fathom; the lode is 2 ft. wide, yielding stones of copper ore—having a better appearance.

CWM DWYFOR (Copper and Silver-Lead).—Joseph Jewell, Dec. 9: No. 4 Lode Scuth: In the level driving east of the shaft the lode is 2 ft. wide, producing 2 tons of silver-lead ore per fathom, and promising for still further improvement. The two stopes over the back of this lode are each at the present time yielding 25 cwts. of silver-lead ore per fathom.—No. 4 Lode North: We are desuing the lode in the level east of the shaft, but when the lode was last taken down it yielded fully 10 cwts. to the fathom.—Incline: I shall nearly complete the laying of the rails next week.—Crusher-House, &c.: The building will be ready for the crushers by the end of next week.—Or: A thaw has, I am glad to say, set in, and the dresser is again washing ore, but the frost has very much interfered with our dressing operations.

the end of next week.—Ore: A thaw has, I am glad to say, set in, and the dresser is again washing ore, but the frost has very much interfered with our dressing operations.

OWM ELAN (NEW).—W. Goldsworthy, Dec. 4: In the 30, west of engine-shaft, the lode is 2 ft. wide, and showing a masterly appearance for a valuable result. At the present time the lode is worth 15 owts. of lead and blende ores per fathom. In the same level, east of shaft, the lode is of the same dimensions in width, but more productive in mineral. The present indications are most encouraging, worth 18 owts. of lead ore per fathom, combined with a little blende. In the 20, west of shaft, the lode is 15 in. wide, and will produce 20 cwts. of good blende per fathom; lead ore is also yielded, but the quantity is small. The stope in back of this level will produce 8 owts. of lead ore and 7 owts. of blende ore per fathom. The stope east of shaft, in the same level, on the south lode, will produce 13 cwts. of lead and blende ores per fathom. The stope west of cross-course, on the north lode, is worth 16 owts. of lead ore per fathom. Other parts of the mine are looking much the same as for some time past. This being the end of our working month the esting of the various bargains underground have been retaken and some refused, but I have not the slightest doubt the refusing ones will retake in a few days hence. The frost has entirely stopped our dressing of ores, and nearly our water-power.

OWM YSTWITH.—Dec. 3: In Michell's level west the lode holds on strong, and still worth 10 cwts. of lead ore per fathom. The rise and stope are worth 15 cwts. of lead ore per fathom,—Michell's Level East: The lode in the end is 2 ft. wide, composed of clay-slate, with spots of blende, but poor for lead ore. The rise in the back of this level is worth 1 ton of lead ore per fathom. In Gill's upper level cross-cut north the ground is favourable for driving. The Rosa Cross-cut North: This has been commenced on the outcrop of the Comet lode, which at this point is very h

in the tribute pitches since our monthly setting. We have a very severe frost, which has stopped our pumping-wheels and dressing; in fact we have been able to do but little in the way of dressing this week. We sampled 25 tons of lead ore on Tuesday last, Nov. 30.

DEVON GREAT CONSOLS.—James Richards, Dec. 10: Wheal Maria: At this mine there is no alteration in any points since last week.—Wheal Josiah: Richard's Engine-Shaft: In this shaft, sinking below the 260, the lode is 2ft. wide, composed of quartz, caple, mundic, good progress is being made in getting down. In the 60 west, the lode is still 4ft. wide, consisting of capel, mundic, quartz, gossan, and saving work for copper ore.—Wheal Emma: New Shaft, New South Lode: In the 160 west, driving is continued by the side of the lode. In the 160 east, a portion of the lode, 2ft. wide, has been taken down, and shows improvement, being composed of capel, quartz, mundic, and good stones of ore—very promising. We shall continue to drive by the side of the lode, it being of great importance to effect communication with Dymond's winzs as soon as possible. In Dymond's winze, sinking below the 145 east, sinking is slow owing to the quickness of the water. The lode is of the same value for length and width carried, 9ft. by 4ft., continuing worth 15 tons of ore, or 7ft. per fathom. In the 145 east, the lode is a good course of ore, worth 8 tons, or 40. per fathom. The lode in Welsh's winze, being stripped down below the 130 east, is 10 ft. wide, worth 12 tons, or 50t. per fathom.

DYLIFFE.—Edward Rogers, Dec. S. Dyliffe Lode: At the 120, we are cross-cutting south, by four men, at 7t. per fathom. In the back of this level there are six men rising towards the bob pit, at 9t, per fathom; the lode is 5ft. wide, and worth 20t. per fathom. In the cross-cut at the 105, the shaft-men (skx in number) are engaged stripping the side of the level in order to fix rods in the same. The 70 is driving south, by two men, at 7t. per fathom; the lode is 5ft. wide, and worth 20t. per fathom.

a rew days, when we shall resulted stopping. To drive the 15 fathom the west, of the caunter, by two men, at W. per fathom; the lode produces a little ore. To drive the 55 fathom level[west, on the caunter, by four men, at 44. 10s, per fathom; this end is looking very kindly indeed, and will yield 1½ ton of copper ore per fathom, and we think it will further improve as we get off the influence of the cross-course. FRANK MLLS.—J. Nicholis, James Rowe, jun., Dec. 9: The engine-shaft is sunk 15 fms. below the 145; we are making preparations to cut plat to enable us to drive north and south on lode. The lodes are about 18 in. apart in bottom of shaft, and produce a little lead. A winze slaking in bottom of the 145, north of cross-cut, on west lode, is producing a little lead. At the 100 we are driving north of cross-cut, on west lode, which is producing 4 cwts. of lead ore per fathom. The 60, driving south of cross-cut, north of Orchard air-shaft, on eastern branch, is producing 4 cwts. of lead ore per fathom. The 60 or per fathom in the 60 consecut, north of cross-cut, south of Orchard air-shaft, on eastern branch, is producing 4 cwts. of lead ore per fathom, and improving in appearance. The 45 is being driven south of cross-cut, north of Orchard air-shaft, on east branches; we expect to make the communication next week. When this is completed we shall be able to set some pitches on tribute. At the 30 we are driving north and south of cross-cut; the lode in each end is producing saving work for lead. Our tribute department is looking very well, and the machinery is in good working order.

15 fathoms under shallow adit level in about ten days time. The shaft is in very congenial strata, which at times carry strong spots of lead. Winze sinking under shallow adit level perpendicular in the lode contains all matrices essential to the production of large quantities of lead; at the present shallow depth it is yielding beautiful slabs of solid lead; therefore I expect to meet with a continuous course of ore when the lode shall be intersected, and the whole width (50 ft.) explored by the proposed cross-cut from the engine shaft.

GREAT LAXEY—F. Reddiciffe, Dec. 7: As there are but few changes at any of the points underground since the last report, when the value of each was given, I need not now repeat what was then stated, but report simply upon what changes have taken place.—Deep Mine: There is a great improvement in opening up the lode to its full width in the 200 end north, its present value being fully 80°, per fm. The cross-cut is fully through the east division of the lode, which is 5½ ft. wide, and in which we are now driving north again instead of on the west side as before. The 190 over the before mentioned end is also further improved; present value being 70°, per fathom. There is now every reason to believe that we are through the run of poor ground which we have had to contend with in these levels for son time past, and that the 210 coming up below will soon be through it also.—Dunbell's: We have commenced cuting a little ground necessary for room preparatory to sinking the shaft below the 200; this done, and some timbering also necessary, sinking will be commenced about a fortnight. The 200 end south is not so good as last reported; present value 35°, per fathom. We have commenced driving the 85 north; here we shall probably have a considerable length of poor ground to penetrate before reaching the northern run, as I call the ore ground now being explored in the 10 north. The drawing and all matters at surface going on with regularity. Machinery all in good working order and repair.

GREAT

Western shoot of behalf. I will search should be a support of Saturday last. The 56 to drive west of sump winze, by nine men and three boys, at 12t, per fathom; we have been driving by the side of the lode the whole of the week. I hope to report fully thereon next week. A winze to sink below the 44, east of sump winze, by four men, at 71, per fathom, Four men to sink west of sump winze, at 6t, per fathom; lode 2½ it. wide, worth 7t. per fathom. A stope to four men in the back of the 34, east of sump winze, at 50s. per fathom; lode worth 5t, per fathom.

obys, at 12%, per fathom; we have been driving by the side of the lode the whole of the week. I hope to report fully thereon next week. A winze to sink below the 44, east of sump winze, by four men, at 7%, per fathom. Four men to sink west of sump winze, at 64, per fathom: lode 25%, the wide, worth 7%, per fathom. A stope to four men in the back of the 34, east of sump winze, at 50%, per fathom. GUNTISLAKE (Clitters).—W. Skowis, J. C. Seccombe, Dec. 8: The lode in the 7se in back of the 188 is worth fully 70%, per fathom. In the 17d east the lode is 18 the 180 to 180 to

moment. The shaftmen are now busily engaged preparing for changing the pitwork.

LLANRHAIADR.—E. Pasce, Dec. 8: The ground in the deep adit continues favourable for driving, and good progress is being made: the character of the lode is without change since my last report. The cross-cut, south of No. 4, itself lyielding a little lead, and in all probability will improve when the south wall is reached. In the level west of winze, below No. 4, the lode is possessed of overy feature calculated to produce a course of ore. I broke some nice stones of ore to-day from the roof, close to the forebreast. I expect in another fathom of ground we shall reach the course of ore seen above. The lode in No. 3 lovel has a very promising appearance, composed of lime spar, oxide of fron, carbonate of lime, and sulphur, and ought to produce lead. In the cross cut, east of No. 2 rise, we have commenced to stope in the rib of ore mentioned in my last; it is worth for lead about 10t, per fathom.

MARKE VALLEY.—J. Secombe, J. Stenlaks, F. Renals, Dec. 9: In Salisbury shaft and the 136 west there is no change since last report; the water is in fork in the former, and the men have resumed sinking. In the 70 cross-cut south we be

to stope in the rib of ore mentioned in my last; it is worth for lead about 10%, per fathom.

MARKE VALLEY.—J. Seccombe, J. Stenlake, F. Renals, Dec. 9: In Salisbury shaft and the 136 west there is no change since last report: the water is in fork in the former, and the men have resumed sinking. In the 70 cross-cut south we believe we have cut the south part of Rosedown lode; so far as seen it is composed of capel, quartz, and spots of ore. The rise in the back of the 60 continues to yield 4 tons per fathom; and the 50 west, on Rosedown lode, 2 tons per fathom. The 30 cross-cut north, as far as cut into, will yield 2 tons of good copper ore per fathom. In the 100 west the lode is worth 3 tons per fathom. All the stopes and pitches continue to yield their usual quantities.—New Shaft: We have not yet holed the borehole to the rise, but are duly expecting to do so.

MELINDUR VALLEY.—J. Kitto, Dec. 4: The lode in the engine-shaft, sinking below the 26; is undergoing a very considerable and, I believe, a most important change in its character; but it is impossible to say, for a short time, what the result will be. I hope, however, to have the pleasure of reporting a great improvement before the end of the current month. The 26 is without change to notice, but the lode in the 14 east has much improved, and is now yielding some nice rich cre. The stope in the back of this level is looking better than for some time past. There is no change in the north cross-cut, except that we have out a very strong feed of water, such as we have never seen before, and this, in my opinion, is a pretty sure indication that we are very near the north lode. I will fully advise you immediately any change of importance takes place.

MONYDD GORDDU.—Richard Rowse, Dec. 9: Up to Saturday we were progressing most satisfactorily with our dressing operations, machinery and everything going on to perfection, and we should have had a sampling ready of at least 50 tons in another fortnight, but unfortunately for us a severe frost set in adstopped o

NEW CHIVERTON.—J. Trewartia, Dec. 2: The lode in the engine-shaft has somewhat improved since the 2nd inst.; it is worth now 18!, per fathom for the length of the shaft (12 ft.); the shaft is now 9 fms. 4 ft. 6 in, below the 35. No change to notice in any other part of the mine.

NEW CONSOLS.—B. Pryor and Son, T. Jenkin, H. Vial, Dec. 7: All the tutwork bargains throughout the mine continue just as when last reported on. The building of the new piece of flue is being pushed on with as faat as the weather will permit, and all other surface work continues to go on very satisfactorily. Saturday next being our pay and setting day, a full reports shall be sent you.

NEW HENDRA.—Richard King, Dec. 7: The lode in the deep adit level continues just as late reported. The ground improves for driving, and the men are making good progress. The ground and lode are letting out more water than I have ever seen anywhere in this level, which leads me to believe that we are near another lode.

on eastern branch, is producing 4 cwts. of lead ore per fathom, and improving in appearance. The 45 is being driven south of cross-cut, north of Ordard air shaft, on cast branches; we expect to make the communication next week. When this is completed we shall be able to set some pitches on tribute. At the 30 we are driving north and south of cross-cut; the lode in each end is producing saving work for lead. Our tribute department is looking very well, and the machinery is in good working order.

6AWTON COPPER.—George Rowe, George Rowe, iun., Dec. 4: The lode in the 17, east of King's engine-shaft, is producing arsenical mundle, impregnated with good quality copper ore. The lode in the stopes in back of the 117 is worth 52, per fathom. The lode in the stopes in the back of the 117 is worth 52, per fathom. The lode in the stopes in the back of the 18, east of winze, is worth 18, per fathom. The lode in the stopes in the back of the 50, east of winze, is worth 18, per fathom. The lode in the stopes in the back of the 50, east of winze, is worth 18, per fathom. The lode in the stopes in the back of the 50, east of winze, is worth 18, per fathom. The lode in the stopes in the back of the 50, east of winze, is worth 18, per fathom. The lode in the stopes in the back of the 50, east of winze, is worth 18, per fathom. The lode in the stopes in the back of the 50, east of winze, is worth 18, per fathom. The lode in the stopes in the back of the 50, east of winze, is worth 18, per fathom. The lode in the stopes in the back of the 105 is worth 19, per fathom. The stope in the back of the 50, east of winze, is the bottom of the 82, is worth 52, per fathom. The stope in the back of the 105 is worth 19, per fathom. The stope in the back of the 105 is worth 19, per fathom. The stope in the back of the 105 is worth 100 in the stopes in the back of the 105 is worth 100 in the stopes in the back of the 100 in the stopes in the back of the 100 in the stopes in the back of the 100 in the stopes in the back of the 100 in the stopes

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to work the fourth week yesterday; there were four men commencing the month's bargain. In the Lyde level four men; the full corps only worked a fortnight of

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FRINCE OF WALES.—J. Andrews, J. Pryor, Dec. 8: Setting Report: The following was our setting on Saturday:—To drive the 77 and, west of engine-shaft, by six men, at 12/, per fathom; lode 6 in. wide, yielding a little mundio and copper ore. To drive the 55 end west, by six men, at 13/, per fathom; lode 20 [in. wide, composed of quartz, capel, and mundic, and a little copper ore. A pitch in the back of the 77, east of shaft, by two men, for one or two months, at 14s. in 1/. A pitch in the back of the 40, west of shaft, by two men, at 14s. in 1/. RELISTIAN CONSOLS.—J. Curtis, Dec. 9: Duke's shaft is now 5 ft. below the 24; the lode is 5 ft. wide, with stones of mundic, copper ore, blende, and a little in in it, but nothing to value.

RHEIDOL.—John Ridge, Dec. 4: The lode in the 30 west is still of a most promising character; the part carried (5 ft.) is composed of slate, spar, carbonate of lime, and a good mixture of lead and blende, 3 ft. wide, with a very kindly appearace[for improving. The rise in the back of the deep adit level will yield 25 cwts. of blende per fathom.

ROMAN GRAYELS.—Arthur Waters. Dec. 3. Settle—R

lime, and a good mixture of lead and blende, 3 II. wide, with a very shady appears anoelior improving. The rise in the back of the deep adit level will yield 25 cwts. of blende per fathom.

ROMAN GRAVELS.—Arthur Waters, Dec. 9: Setting Report; The 95 to drive north of old shaft cross-out, by four men, at 14'. 10s.; the lode is worth 25'. per fathom. The 95 to drive south of Dorricott's winze, by six men, at 10'. per fm.; ble lode is twithed up by the cross-course, and at present worth 20'. per fm. The lode in the 95, north of ditto, by four men, at 7'. per fathom, worth 40'. per fathom. No. 2 stope, north of ditto, by four men, at 4'. 15s. per fathom, worth 20'. per fathom. The stope in the 95, south of the above winze, by four men, at 6'. 10s. per fathom, worth 20'. per fathom, No. 2 stope, south of ditto, by four men, at 6'. 10s. per fathom, worth 20'. per fm. No. 3 stope, south of ditto, by four men, at 6'. 10s. per fathom, worth 20'. per fm. No. 3 stope, south of ditto, by four men, at 6'. 10s. per fathom, worth 20'. per fm. No. 3 stope, south of ditto, by four men, at 6'. 10s. per fathom, worth 20'. per fm. No. 3 stope, south of ditto, by four men, at 6'. 10s. per fathom, worth 20'. per fm. No. 3 stope, south of ditto, by four men, at 6'. 10s. per fathom, worth 20'. per fm. No. 3 stope, south of ditto, by four men, at 6'. 10s. per fathom, worth 20'. per fm. No. 3 stope, south of ditto, by four men, at 6'. 10s. per fathom, worth 20'. per fm. No. 3 stope, south of ditto, by four men, at 6'. 10s. per fathom, worth 20'. per fm. No. 3 stope, south of ditto, by four men, at 6'. 10s. per fathom, worth 20'. per fm. No. 3 stope, south of ditto, by four men, at 6'. 10s. per fathom, worth 20'. per fm. No. 3 stope, south of ditto, by four men, at 6'. 10s. per fathom, worth 20'. per fm. No. 3 stope, south of ditto, by four men, at 6'. 10s. per fathom, worth 20'. per fm. No. 3 stope, south of ditto, by four men, at 6'. 10s. per fathom, worth 20'. per fm. No. 3 stope, south of ditto, by four men, at 6'. 10s. per fathom,

four men, at 6f. 10s., worth 46f. per fathom. The stope in the 80, south of Bishop's with the wine, by two men, at 6f. per fathom. The stope in the 80, south of Bishop's with the wine, by two men, at 6f. per fathom. You of 18f. per fathom. The stope in the 80, south of Bishop of the 18f. per fathom of 18f. per fathom, worth 28f. per fathom. The stope in the 89, south of wines, on east a stope in the 18f. per fathom. The stope in the 89, south of wines, on east a stope in the 18f. per fathom. The stope in the 18f. per fathom. The stope in the 18f. per fathom. The stope in the 18f. per fathom, worth 28f. per fathom. The stope in the 18f. per fathom. The stope is the 18f. per fathom of 18f. per fathom. The 18f. per fathom of 18f.

opened out at the adit level, and every point touched below indicates favourably for a vast and profitable yield of ore at the next level; therefore, in concluding my report, I feel found to congratulate the shareholders on the early success in their new undertaking.

WEST TANKERVILLE.—Arthur Waters, Dec. 9: The south boundary shaft is being deepened with fair progress. The 63, south of said shaft, is worth 1 ton per fathom. The stope in said level south is worth 1½ ton per fathom. The winze below the 50 south is worth 1½ ton per fathom. No. 2 stope, south of ditto, is worth 1½ ton per fathom. No. 3 stope in the 50, south of shaft, is worth 1½ ton per fathom. No. 3 stope is worth 1½ ton per fathom. No. 3 stope in same level is worth 2 tons per fathom. No. 2 stope, south of ditto, is worth 1½ ton per fathom. No. 3 stope in same level is worth 2 tons per fathom. The stope in the 64, south of shaft, is worth 1½ ton per fathom. The stope in the 64, south of shaft, is worth 1½ ton per fathom. The stope in the 64, south of shaft, is worth for lead and blende, 25%, per fathom.—Old Mine: No change in the 48 south-east towards shale. The 48, west on cannier, is letting out a good feed of water. The same level, east on cannier, is now into some cross-strings and bunches of spar and ore, indicating our near approach to one of the side lodes. Weather very severe.

WEST WHEAL TOLGUS.—Dec. 9: The water is in fork in both shafts. The ground in Taylor's shaft is much the same as it has been, which is moderately easy. The ground in the rise in the back of the 125, east of shaft, continues hard; we calculate on communicating with the 175 shout the sand of next month. The lode in the 125 west is small and poor. The lode in the 115 west is all the size of the end and poor. The lode in the 95 is about 1 ft. wide, with a little ore, and looking more hopeful; we are likely to have ore in this end soon, as it is getting under a shoot of ore passed through in the 85 end. The lode in the 15 west is yielding 3 tons of ore per fathom. The

which has continued ever since, and has been worth fully I ton of lead ore to, the
fathon, and I have not seen a more kindly lode for a very long time, or anything
more likely to protone graw results. We have commoned a new shaft (called
headings). This will be used for ventilating and drawing purposes, and from it we
to be the state of the state of the state of the state of the
headings. This will be used for ventilating and drawing purposes, and from it we
short time. This, in my opinion, will prove the relient and best are of that why
and requires prompt action in its development. The 26 is also being pushed or
resultation, and for proving the value of the ground. We pumped all the yater
out to the bottom (or 40), but shall not be able to do much there until the pitwork
and other materials delivered on the mine.

WHEAL CHENDR.—J. Androws, Dec. 6: Setting Report: The following was
at 111, per fathom; the cround in the end is a part for driving, and the lotes main
and poor. To stope the bottom of the 120, east of shalt, by six men, at 7. To per
men, at 0: per fathom; the north part of the lode was en carrying in 39 ft. wish,
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CORNISH MINE SHARE MARKET.—The following are the closing prices:—Carn Brea, 37 to 39. Cook's Kitchen, a little enquired for at 5½ to 5½. Dolcoath, 40 to 41: strenuous efforts are being made here to bring the boring machine into a profitable servant to Cornish mining. East Pool, 14 to 14½. East Lovells, 6 to 7. South Carn Brea, 27s. to 29s.; another call is now approaching. South Condurrow steady, 5½ to 5½. South Corfty duli at 15 to 16; just one-half what they were a few weeks since. South Frances, 3 to 10. Thoroft, 20 to 21. Week Basset, 5¾ to

Bonth Carn Brea, 27s. to 29s.; another call is now approaching. South Condurrow steady, 5½ to 5½. South Crofty dull at 15 to 16; just one-half what they were a few weeks since. South Frances, 3 to 10. Tincroft, 20 to 21. West Basset, 5½ to 5½. West Seton, 37 to 40; the mine is said to be looking well. West Frances steady, 5½ to 5½. West Tolgus, 51 to 53. Kitty (St. Agnee), 2½ to 3½. Wheal Uny, 1½ to 1½; call of 4s. paid. Wheal Jane, 3½ to 3½. Unity Wood, 1¼ to 1½. Killifferths, 12s. to 14s. West Chivertons advanced to 17, 18.

Bale of Blenowe Tin Mine, for the purpose of selling the machinery and other effects. The sale was a very brisk one, and the prices made were about the average of the last three months. The 70-in, pumping-engine was sold to the Van Mining Company, in; North Wales, together with the 36-in. stamping-engine, and 28 heads of stamps. The latter engine has only been made about two years, and has scarcely done work enough to get the bearings into proper condition. The 70-in, engine is also of good quality.

BEPARATION OF MINERALS.—A correspondent writes: It would be a misfortune sale of good quality.

BEPARATION OF MINERALS.—A correspondent writes: It would be a misfortune if the letter of Mr. Thos. Ellery, practical dresser, of 8t. Teath, should be allowed to pass without any notice. Any reader of that letter, who was unacquainted with the facts, would be let to suppose that there was no practical difficulty in separating lead, copper, blende, and mundi one from the other. To prove that this is not the case, but that the experience of our best "dressers" has failed to produce a satisfactory separation, we have but to send Mr. Thos. Ellery to one of the mines mentioned by him.—Burrow and Butson, in St. Agnes—where he will find exactly the mixture of ores named by him, and the most approved of dressing machinery. Yet they are at that mise compelled to sell their blende at the lowest price, because they cannot dress it in a satisfactory manner. If Mr. Thos. Ellery can relieve that mine of its diff

were several tutwork bargains let to about 70 men, to sink shafts, drive the deep levels, sink winzes, &c. At the same time about 40 tribute pitches were set to about 120 men, at tributes varying from 3s. to 13s. 4d. in 1'., most of them upon copper ore. Altogether there are at present employed on the mines, underground and at surface, 400 hands.

surface, 400 hands.

FALL IN THE TIN STAYDARDS.—A fall of 2s. per cwt. in the tin standards was amounced last Thursday evening. It was currently reported in Penzance that, on Thursday, the tin standards were reduced 3s., and the prices offered to sellers seemed to confirm that rumour. The smelters, however, formally fixed the reduction at 2s. per cwt., and the standards now are—superior common, 76s.; superior fan, 77s. The smelters' quotations for tin metal are—common, 55s. margin, 9s.; re fined, 86s., margin 10s.; Banca, 16f.; Straits, 81½-82½; Australian, 81.— West Briton.

CAPE ORES.—Messrs. Richardson report that at the Swanses Ticketing, on Tuesday, the Cape ores sold gave an average produce of 31 15-16, and realised 16s. 6d. per unit, or 26f. 7s. 5d. per 21 cwts. dry weight of ore. The average standard was 89, 14s.—104f. 1s. 6d. for 9 per cent. produce, which is about 1, 2s. 6d. higher than the corresponding calculated standard realised for other ores.

The Mining Market: Brices of Metals, Ores, &c.

Pig. GMB, f.o.b., Clyde 3		L MARKET-LONDON, DEC. 10, 1875.
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Consider IV de pos how more than IC quoted above and add fis. for each X.	# At the works Is to Is 6d per he	y less for ordinary: 10s, per ton less for
	Comede: IV 6s per how more than I	Canoted above and add 6s. for each X.

REMARKS.—As the closing weeks of the year pass by in rapid succession the chief characteristic of the metal market for so long a REMARKS.—As the closing weeks of the year pass by in rapid succession the chief characteristic of the metal market for so long a period is preserved in all its integrity. Business is very dull, and the only difference to be reported is that the dulness of the past week is, if possible, greater than that of the preceding weeks. In some departments of the trade the quietness amounts almost to stagnation, and no feature of relief appears to present itself even in the far distant horizon, and yet it may be possible to draw from this fact some small measure of eucouragement, inasmuch as when things are at their worst there is a reasonable expectation that times will mend. Manufacturers, who have for a long period fought bravely against a tide of disaster, mainly arising from the high prices demanded for wages and raw material, are at last determined to close their works or to contract their operations, rather than continue to follow a line of policy which must end in loss. Whatever the causes which have been in operation to disturb the balance which ought always to be maintained between supply and demand, and however serious the character of the disturbance may be, the force of this well known and acknowledged law is such that in the end matters will right themselves; manufacturers will be in a position to make to profit, operatives will be prepared to accept such wages as the exigencies of the trade will admit of, and the public will become buyers, and find that they are not losers by the operation, but what has been assuredly will be again.

COPPER,—There has been very little doing during the week. The market opened quiet at 80t. to 80t. 5s. for Chili bars, g.o.b., usual cash, at which price a small business was reported, since which 81t. has been paid, and 81t. 10s. for picked brands; Wallaroo, 90t. to 90t. 10s.; and Burra, 89t.; English tough is quoted 87t.; best select, 88t.; India, 4 by 4 sheets, 93t.; and strong sheets, 95t.; ore, 16s. 6d.; regulus, 17s.; yellow metal, 74d. to 84d. The following tabulated sta

ng the first ten months of the last th	ree years : -		
1MPORTS.	1875.	1874.	1873.
Ore Tons	45,468	40,556	45,749
Regulus	28,011	28,518	24,960
Copper Exports.	34,718	32,651	28,164
Foreign raw	12,190	20,979	17,611
English	D,024	D, 104	11,000
and brass	91 377	21.087	17.940

The result being a gradual increase of imports, and a proportionate decrease in

exports.

IRON.—There has been some slight measure of improvement in the pig-iron trade in the North of England during the past week, but not to an extent which would warrant the anticipation that a the pig-iron trade in the North of England during the past week, but not to an extent which would warrant the anticipation that a period of permanent improvement was about to set in. There must, from week to week, be some unimportant fluctuations, and the past week has been one of the better weeks of a bad time. The limited make of pig-iron naturally tends to keep this metal firm, and so long as the reduced output is adhered to, and lessened if necessity requires, in proportion to the demand for pigs, no doubt prices will continue firm. The enquiry for pig metal during the week has been rather on continental account, the demand for local purposes being not particularly strong. The quotations for the various qualities were as follows:—No. 1, 54s.; No. 3, 49s. 64. to 50s.; and No. 4 forge, 48s. 64. to 49s. A few small orders for rails have been placed, and there are enquiries which have not yet resulted in contracts affoat on the market. Rails of heavy section are quoted 6f. 10s. per ton.! The shipbuilding trade is somewhat more active than it was, and should the present indications of improvement become permanent the plate trade may reap the benefit. Up to this time the value of plates and other flaished iron remains unaltered.

There is a rather better enquiry for merchant bars from India, but upon such terms as renders it difficult to do business. The condition of the trade in South Staffordshire does not present any diversity of colouring to that of the other great centres of the iron industry. The small amount of work which has been coming in from time to time to keep the mills g.ing. is dwindling down to something smaller still; and the prospects for the future are not one whit brighter in this district than in South Wales, or the North of England. The quotations for marked bars continue unaltered at 10. per ion, extras as usual; unmarked bars run from \$8. to \$8. 10s. Bheet-iron is in fair demand for the present. There is not much doing in pigs. Cinder pigs are quoted at 3t. to 3t. 10s. All-mine, \$t. 10s. t

ess, 77s. 6d.	(activetación	SHIPMENTS.	,	
Week ending	Dec. 5, 1874 Dec. 4, 1875	Tor	11,122 9,786	
Dec	rease	1 000	. 1333	

LEAD.—The market maintains its position, and prices are very LEAD.—The market maintains its position, and prices are very firm, but at present makers have not announced any advance in rates. Good soft English pig is quoted 22t, to 22t, 5s., and soft Spanish, without silver, 21t. 10s.

SPELTER.—The market is firm, and 25t. 5s. is the quotation for Silesian, and 20t. for hard spelter.

Australian ingots have been sold at public auction at 21t, 10s.

ZINC.—The price for ordinary zinc, usual terms, is about 32.
"Oberhausen" brand is reported to have been sold during the week at 291, 10s.

QUICKSILVER.—The market is quiet, but prices have not fluctuated, the present quotation being 12t. 10s. to 13t.

Tin.—This market has been devoid of activity. Straits was quoted 8tl. cash at the commencement of the week, at which quotation it has stood almost without variation, but to-day the market is rather firmer. Australian rules at 80%. 10s.; English block, 85%; bars, 86%; and refined, 88%; Banca, nominally 90%.

TIN-PLATES.—This market is in a very unsatisfactory state. Notwithstanding the reduction in the make which has taken place, the

supply is found to be in excess of the demand, and buyers are not tempted by the low prices at which plates are offering.

THE IRON TRADE (Griffiths's Weekly Report).—Friday Evening. THE IRON TRADE (Griffiths's Weekly Report).—Friday Evening,—We report an advance in the price of Scotch pig-iron this week of 9d, per tor, the closing price to-day being 63s. 3d. sellers. The closing price this day week was 62s. 6d. Since our last report there is nothing new in the iron trade. The Belgian iron masters are driving an extensive business in this market, and catinue to send more finished iron, with one exception, to England than in any other country. In other words, we are now their second-best customer. Our ironworks are stopping in various districts, and the men, we are sorry to say, will have a very hard time of it this winter. But they have brought it all on themselves. The present high wages have crippled the makers of the commonest iron, and they are compelled now to shu up the works or come to grief. When the men are disposed to work full time for the old pay we shall again be able to hold our own markets here against the Belgians, but not before. The meeting of the shareholders of the Nanty-Glo and Blaina Iron Company has taken place this week. They have made a fair quantity of iron, and raised a large quantity of coal, but the balance sheet shows no profit, and we regret to say that this state of things exist in the working of several other large companies.

things exist in the working of several other large companies.

Messrs. James and Shakspeare—Copper: Sales of furnace material have consisted only of 1411 tons ore at Swansea Ticketing, averge produce 10½ per cent., average price 15s. 9d. per unit; stuff of high percentage realised at the same sale 16s. 6½ d. per unit. There has been more enquiry for bars throughout the week, and a tolerably large trade done mostly in ordinary brands at from 30, to 80, to 80, to 80, to 10s, the latter figure predominating. It would seem that 80, is about the lowest price warranted by the present position of the market, and though no great advance is to be expected, there are signs that the year will close with a slight improvement on the rates lately ruling. Australian descriptions are still neglected, but quotations remain nunlitered, the quantity on sale being exceedingly limited. English kinds are steady, the smelters being tolerably well supplied with work, though offering a slight inducement to secure orders for Indian sheets.—Tix: English is in fair demand, but the quotations are a trille easier than when we last wrote. Straits and Australian have fallen about 1s, per owt.; but there has been more business doing at the reduction. The decline was chiefly brought about by operators for a fall, who daily announce transactions at figures below those ruling in the open market, and these tactics have hitherto proved so successful as to encourage a continuance.—Lead is steady, with an upward tendency; Spanish showing an improvement of 2s. 6d. to 5s. per ton, owith the United States.

Messrs. Grenfell and Rickards—Copper: Our market for Chili

to short supplies.—TEN-FLATES irriner, with a good trade doing for supplies to the United States.

Messrs, Grenfell and Rickards—COPPER: Our market for Chilibars, after receding this week to 80., 80.5 5s. for g.o.b.'s, yesterday became firmer, and a moderate business having been done up to 80., 15s. 81., closes with sellers at latter price. Orders for India scarce. Smelters' copper in limited demand, and prices falling.—Tix: The London and Dutch delivery of foreign thin in November amounted to only 1220 tons, as against 1950 tons in October. Part of this falling off doubtless is owing to smelters having previously to November kept English at a price pounds above foreign, consequently the consumption of the latter was greatly stimulated, whilst the former met with very little demand.—LEAD is in good demand, and makers rather holding for higher prices.—Tix: Nothing satisfactory to report.

a price pounds above rorein, consequently the consumption of the latter was greatly stimulated, whilst the former met with very little demand.—LRAD is in good demand, and makers rather holding for higher prices. —Tin: Nothing satisfactory to report.

Messrs. Henry Rogers, Sons, and Co.—IRON: The iron market does not improve, excepting that pigs are a fraction higher. Most makers of malicable iron are working at a loss, and thus argue that prices will advance; but there is no sign at present that demand will get within a very long way of the present is upply, and until this end approaches it is difficult to see how the trade can improve.—Copper: The market has receded 10s. to 20s., but the quotations are to a certain extent, nominal. No doubt a few hundred tons in second hands have not found buyers above 80t; but the importers finding that a considerable business might be transacted at this low figure, have not been inclined to realise, their holdings costing them a goodish bit above present quotations. There has been not an amount of furnace material. Bars may be quoted 81t; tough, 87t; selected, 83t; sheets, 93t.—Tis: The fall in this metal since the Dutch sale has been continuous. Australian is 80t. 10s.; Straits, 81t.—Sperizer: There is very littered doing at this moment, but prices are kept up; on the Continent quotations are higher than this side.—Lead: This metal has improved fully 5s., the supply of oreign being again short.

Messrs. Fry, James, and Co.—Copper has been less enquired for, with the natural result of a further weakening in prices. These are anomalies/connected with this article which are not easy to explain; for instance, in the face of a recognised sluggish demand, the stocks in warehouses in England and at Harve were reduced by about 2500 tons during last month, whilst the quantities afloat and chartered for show no change.—Try continues sluggish and drooping, the fall in value in the fortnight having been fully 30s. per ton, and there is no immediate prospect of recovery.—Lead maintains

Mr. Murrant—Tin: Foreign sorts were more than ordinarily depressed, Straits having receded to 80s. 8d., but there were some strong buyers at the lowest prices. The deliveries for the present month will, it is said, be larger than those for November, and should this be true, it may tend to a partial recovery from the late drop. The position has been regarded as critical by a few holders, who have, in consequence, shown some anxiety to sell, and this had a weakening effect on the market. The reported sales were 220 tons Straits and Australian, at 81s. 6d. to 79s. 6d. for cash and shipment.—Copper: Very little business has been passing in Chili, which shows a drop of about 10s. for the week At the 8 wansea Ticketing on the 7th inst. about 148 tons of ore (in fine), with an average produce of 19½ per cent., fetched an average price of 15s. 9d. per unit. Australian sorts have been quiet. The business consisted of 375 tons g.o.b's., and named brands at 80t. to 81t. for cash and prompt.—Teny: Scotch pigs have further improved in value, the closing price being about 6 is. 4½d., cash.—Speliter and Lead steady.—Tin Plattes in rather more enquiry.—QUICKSILVER quiet. Mr. Murrant—Tin: Foreign sorts were more than ordinarily de-

Messrs, Sanford and Bird-Coppen is easier, with little doing —TIN has relaysed about 20s. per ton, and closes weak. —TIN-PLATES are better demand, and prices are somewhat firmer. —SPELTER remains firm. LEAD keeps steady. —SHEET ZINC is in good demand.

Soon after our last it was publicly made known that smelters had dropped the tin standards for ore 2l. per ton, and in consequence the MINING SHARE MARKET has been more than usually dull, and in most cases among English mines prices are merely nominal. Among the sound and legitimate foreign companies more business has been the sound and legislimate foreign companies more business has been done, and one or two are coming into favourable notice. Among these San Pedro has advanced from a mere nominal price to 2\frac{3}{4}. Argentine has been largely dealt in at 2 prem., while Santa Barbara, Gold Run, and a few others are enquired for.

Among home mines the chief attention has been directed to West

Chiverton, Tankerville, Parys Mountain, Roman Gravels, Pateley Bridge, Devon Consols, Wheal Crebor, Prince of Wales, Trebeigh Consols, West Tankerville, West Tolgus, Great Wheal Vor, and a

few others.

West Chiverton, 17½, 18½; the accounts, preparatory to the meeting next week, show a profit of 2023%. on five month's working, and a balance in hand of 2406%. 2s. 7d. A dividend of 12s. 6d. is recommended. The costs are charged up to Nov. 6, and the ores credited to Nov. 30. The amount due to merchants is 2523%. 10s. 5d. The lead ores sold realised 5535%. 13s. 10d.; blende, 3891%. 4s. 2d. The mine is reported as looking well, and to have greatly increased in value.

Roman Gravels, 12, 12½; according to the setting report there are three ends driving in the mine. The 90 north worth 25% per fathom; 90 south worth 20%; and the 80 south worth 20% the stopes are worth in the aggregate 368% per fathom. The monthly sale of lead ore (200 tons) realised 2952% Tankerville have improved to 10, 10½, the mine looks better, and the sampling this month 130 tons of lead. West Tankerville, 24s. to 26s. The 48 east on caunter indicates the near approach of one of the side lodes. few others

on caunter indicates the near approach of one of the side lodes. Ladywell, $2\frac{1}{4}$, to $2\frac{1}{2}$; Pennerley, $1\frac{3}{6}$, to $1\frac{1}{5}$; Bog, $\frac{1}{4}$, to $\frac{1}{4}$; East Caradon,

Ladyweii, 22, to 27; to the tasks, 3 to 5; a meeting has been called here for the 17th to decide upon future operations. It will be remembered that at a previous meeting it was decided to issue debenture bonds to raise 2500l., which was considered sufficient to get the shaft down to a productive depth, and that two gentlemen alone had agreed to take 1500l. if the other shareholders came forward for the balance; but it now appears the general body have not done so, and if they do not apply by the meeting a proposition, we understand, will be made for reconstructing the company, giving the present holders a pro rata interest in fully paid-up shares, and offering advantageous terms for raising the necessary cash capital. More than 20,000k has been spent by the company, and the mine, situate as it is between Roman Gravels and Tankerville, only requires a further outlay of a few they ends to ranker it, perhaps, a great success. Under the company Roman Gravels and Tankerville, only requires a further outlay of a few thousands to render it, perhaps, a great success. Under the cost-book system there would be no difficulty whatever in getting the money required, but under "limited liability" many a mine at the end of a fixed capital becomes sacrificed by one set of shareholders to make the fortunes of others. It is hoped, however, that the shareholders in South Roman Gravels will not allow this mine to get into

holders in South Roman Graveis will not allow this mine to get into other hands for the sake of a few pounds.

Devon Great Consols, 4½ to 5; no change here; the lode in Dymond's winze is worth 15 tons of copper ore per fathom; the 145 east, 8 tons; the 130 east, 12 tons per fathom. Carn Brea, 37½ to 40; Cook's Kitchen, 5½ to 6; Dolcoath, 40 to 42½; East Van, 2 to 2½; Great Laxey, 15 to 16; Great Wheal Vor, 2½ to 3½; Great West Van, ½ to ½; Hingston Down, ½ to 1½; Marke Valley, 3½ to 3½; Old Tre-

burget, \(\frac{1}{8}\) to \(\frac{1}{2}\); Penstruthal, \(\frac{8}{8}\) to \(\frac{1}{2}\); Plynlimmon, \(\frac{1}{4}\) to \(\frac{1}{2}\); South Cara Brea, \(\frac{1}{4}\) to \(\frac{1}{2}\); South Caradon, 130 to 140; South Condurrow, \(\frac{5}{4}\) to 6; Tincroft, 20 to 22; Van, 28 to 29; Van Consols, \(\frac{1}{2}\) to \(\frac{1}{3}\). Prince of Wales enquired for at \(\frac{1}{6}\) to \(\frac{1}{4}\); this mine has been for some time poor, but there is now a prospect at least of better things. In the 40, west of shaft, there is a lode in the end of a pitch worth \(\frac{1}{4}\) tons \(\sigma\) copper ore per fathom. This is in whole ground to surface, and on what the present agent considers the main part of the lode, although the north part, which dwindled down to nothing, had been considered the best. This point is about 20 fms. west of the former rich course of ore, and is going into unexplored ground whole to surface. explored ground whole to surface.

At the Great Retallack meeting the accounts showed assets over liabilities of 264.; the agent reports that if the mine continues as at present he can raise 80 tons of blende per month, and at an ave-At the Great Retallack meeting the accounts showed assets over liabilities of 26³⁴,; the agent reports that if the mine continues as at present he can raise 80 tons of blende per month, and at an average of 31.10s. per ton they would have a good profit. Trebeigh Consols, 6s. to 8s.; at the meeting a call of 1s. per share was made. The mine has the Wheal Wrey and Ludcott lodes, and is considered a good speculation that can be proved for a little money. Parys Mountain, 10s. to 12s. 6d.; the frost has slightly interfered with the precipitating pits, but the agent has weighed off 270 tons of copper ores and 80 tons of sulphur. At the four-monthly meeting at South Tolcarne the accounts showed a debit balance of 1501, and a call of 3s. per share was made. At the Rosewall Hill and Ransom meeting a call of 3s. per share was made; the debit balance was 9401.0s. 1d. Relistian Consols, \(\frac{1}{2} \) to \(\frac{1}{2} \) to the share was 9401.0s. 1d. Relistian Consols, \(\frac{1}{2} \) to \(\frac{1}{2} \) the lode in the shaft sinking towards the junction with the copper lode is now \(\frac{1}{2} \) to \(\frac{1}{2} \) to \(\frac{1}{2} \) to \(\frac{1}{2} \); which are in few hands, with a large working capital. West Basset, which are in few hands, with a large working capital. West Basset, 5 to \(6 \); West Craven Moor, 10 to \(10\); West Great Work, \(\frac{1}{2} \) to \(1\); Wheal Agar, \(1\frac{1}{2} \) to \(1\) to \(10\); West Great Work, \(\frac{1}{2} \) to \(1\); Wheal Agar, \(1\frac{1}{2} \) to \(1\); Wheal Agar, \(1\frac{1}{2} \) to \(1\); Wheal Agar, \(1\frac{1}{2} \) to \(1\); the directors have declared a cividend of \(1\llow{1} \). The paid-up capital is something under 20,000. Santa Barbara shares have been enquired for at \(\frac{1}

all was completed, and in full operation, the mine would pay large dividends. Almada and Tirito, \$ to \$; the advices show a profit on the month of October of \$2470. Eberhardt and Aurora, 7\$ to 8\$; Flagstaff, \$ to \$; Frontino and Bolivia, 1\$ to 1\$; Javali, 12s. to 14s.; New Quebrada, 3\$ to 4\$; Sweetland Creek, 2\$ to 3.

The market for Mine Shares on the Stock Exchange during the week has been somewhat less firm than of late. Lead descriptions have been more offered, upon the expectation that as the weather is interfering with the current returns, forthcoming dividends may be proportionately diminished. There is also the general considera-tion that the volume of business is always much narrowed towards the close of the year. This, however, is perhaps less conspicuous now than in former years, while the market throughout is in a healthier condition than for a long time past, invariably the fore-

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healthier condition than for a long time past, invariably the forerunner of a period of progressive activity. Argentine shares have been largely dealt in at $7\frac{1}{4}$ to $7\frac{3}{4}$, and close 7 to $7\frac{1}{2}$. A contract has been entered into for the necessary machinery, and 20 tons will be shipped during the present month, sufficient to put 24 heads of stamps in working order forthwith; the remainder will be shipped in January. In the meantime money has been sent out for vigorously working the mines. Profits are expected to commence from Jan. 1. Opening up the mines in a scientific and miner-like manner will be proceeded with energetically. There are several other mines in the same condition as Pigué. the lowest workings of which are reported to be equally getically. There are several other mines in the same condition as Piqué, the lowest workings of which are reported to be equally rich. Considerable interest, therefore, attaches to the future career

of this enterprise.

Silver Mines, excepting Eberhardt and Aurora, have be a dull and dropping. Eberhardt advanced to 8½, 8¾, upon the announcement of an important discovery made at a point whence valuable results may fairly be looked for; a profit of 14,000% has been realised in 36 days, and the mine, generally, continues to improve. Negociations with the debenture-holders are in satisfactory progress, and it is not unlikely the debentures may be replaced by ordinary charge. Eighpund Consolidated in the early part of the week were tions with the debenture-holders are in satisfactory progress, and it is not unlikely the debentures may be replaced by ordinary shares. Richmond Consolidated, in the early part of the week, were quoted 83 to 83, but subsequently declined to 73, 8, closing 73 to 84. Cablegram received: "Week's run, \$50,000; suak 30 feet in good ore; mine looking well." The make of bullion for the season is \$1,310,000, and since February, \$1,840,000. The refinery this season has produced gold and silver to the value of \$844,000, irrespective of the lead. The improvement this week in the returns tends to confirm the manager's anticipations: and considering that tends to confirm the manager's anticipations; and, considering that the re-lined No. 3 furnace could scarcely have given its full com-plement, is satisfactory. The new discovery is opened out to 30 ft. in depth, being an advance of 18 ft. since last week, as no mention plement, is satisfactory. The new discovery is opened out to 30 ft. in depth, being an advance of 18 ft. since last week, as no mention is made for the drift. The 50 ft. of width traced and named in former cable, gives the dimensions of the chamber as 50 ft. by 30 ft. The manager's written report describes his efforts to trace the lode in depth before he had ascertained its changed direction; this being proved subsequently, as we learn by cable he was able to run an incline 30 ft. in the lode in good ore. The flattening at the 600 ft. level may be the precursor of a chamber or chambers in the lode, as everyone familiar with the mine expected. The new hoisting-engine, if the contractor fulfilled his engagement, was to be ready for work by the first week in December. We learn that, from the preparations made, one or two other furnaces, in addition to the three now running, can be got ready for work at short notice. The delays from various causes have hitherto prevented this arrangement from being carried out, and the advanced position of the season may make it unadvisable to increase the smelting power this side of spring. Three furnaces, with the rich ore now available, should be made to yield large profits, those profits being determined chiefly by the absence or presence of sufficient lead, and as that is now abundant the weekly runs are larger, produced at less cost. The Sentinel of Nov. 17 says:—

"The Eureka and Palisade Raiiroad is now in successful operation its entire length, as projected by its builders. The construction of the road, especially tha portion from Alpha to Eureka, is said to be first class in every particular."

The opening of this line before winter is a fortunate thing for the district and its mines. As the new railroad of 80 miles was due to private enterprise, no greater testimony could be offered to the theory

The opening of this line before winter is a fortunate thing for the district and its mines. As the new railroad of 80 miles was due to private enterprise, no greater testimony could be offered to the theory of permanence as a characteristic of Eureka mineral formation.

Tecoma, ‡ to ½; the details of the meeting appear in another column. The mine seems to be opening out encouragingly; but, as explained by the Chairman, the shareholders must do one of three things—either let the vendor, Mr. Erwin Davis, continue to find money to work the mine, the shareholders find money themselves, or wind-up the company. Mr. Davis is at present owed 1400\(lambda); if the shareholders came forward with 2000\(lambda), one or two large shareholders authorized the Chairman to the state of the shareholders are the company. large shareholders authorised the Chairman to state they are prepared to subscribe 500%. The main adit will give 500 ft. of backs, and a mine, according to the Chairman, that will last some time, paying a moderate dividend, the large amount of capital probably preventing a larger one being declared. A resolution was passed. requesting a larger one being declared. A resolution was passed, requesting the directors, if possible, to obtain an independent report on the mine from Mr. Lowndesbury, who is in Salt Lake City. Emma, 1½ to 1½; the adjourned meeting was held pro forms on Wednesday, and further adjourned till Jan. 7, by which time the newly-elected directors hope to be able to report to the shareholders the financial as well as the general position of the company, lled

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specially with regard to the law suits in America, and also as to whether they should advise the passing of the accounts of the late

The Market for Gold-Washing Shares has been moderately active during the week, and shares in most of the companies have been equilited for. Washing has been commenced in all the Californian mines represented here, with every appearance of good results. Blue justing at a fresh claim this season, and using this season 3000 in. of water. The annual meeting was held on Tuesday, and was adjourned until Jan. 5 to enable the directors to circulate the report of Prof. Price, now on the way. The Chairman spoke most encouragingly of the profession of the p

Impeded operations, but a course or lead is being entered upon in the 46 west.

Penstruthal, 8s. to 10s.; a special meeting of shareholders will, we understand, be shortly held. Cathedral, 20s. to 30s.; the shaft has a few feet further sinking to reach the 40, where a good course of copper is confidently looked forward to.

Subjoined are the closing quotations:—
Bog, ½ to ½; Cara Brea, 37 to 39; Devon Great Consols, 4 to 4½; Dolcoath, 40 to 42; East Caradon, 1½ to 1½; East Lovell, 6½ to 7½; East Van, 1½ to 1½; Great Laxey, 15 to 16; Great Wheal Vor, 3 to 3½; Hingston Down, ½ to 1½; Great Laxey, 15 to 16; Great Wheal Vor, 3 to 3½; Hingston Down, ½ to 1½; Great Laxey, 15 to 16; Fensivathal, 8s. to 10s.; Roman Gravels, 11½ to 1½; Tanker-ville, 10 to 10½; Pensivathal, 8s. to 10s.; Roman Gravels, 11½ to 1½; Tanker-ville, 10 to 10½; You'll, 1½; West Basset, 5 to 6; West Chiverton, 17 to 18; West Tankerville, 1½ to 1½; Almada and Tirito, ¾ to ½; Eldesye Creek, ½; to 1%; Cape Copper, 85½ to 85½; Cedar Creek, ½; to ½; Chontales, ½; to 5½; Son Fedro, ½ to ½; Son Fedro, ½ to ½; Esthrardt and Aurora, 8 to 8½; Emma, 1½ to 1½; Esthrandt and Aurora, 8 to 8½; Emma, 1½ to 1½; Esthrandt and Consolidated, 7½ to 8½; Esthrandt and Aurora, 8 to 8½; Elthrand Mexican, 2½ to 3½; South Aurora, ½ to ½; Blue Tent, 4 to 4½; Argentine, 7 to 7½; Assheton, ½ to 1½;

SHEFFIELD.—Mr. J. R. Heard, stook and share broker, in his weekly report

SHEFFIELD.—Mr. J. R. Heard, stock and share broker, in his weekly report says—Local market idle, Staveley's 5t., Sheepbridge 30s. better. The following are current rates:—Bibuo Iron Ore Company, 40 to 44; Bolokow, Yanghan, and Co., 11½ to 12 prem.; Brown, Bayley, and Dixon, 25 to 24½ dis.; Charles Cammell and Co., 3½ to 3½ dis.; Charles Iron Company, 9½ to 5; Ebbw Vale Steel jand Iron Company, 10½ to 10½ to 16 dis.;

The directors of the Cape Copper Mining Company (Limited) have clared a dividend of 20s. per share, free of income tax, payable on Dec. 24 to all archolders on the books on Dec. 17.

The directors of the St. John del Rey Mining Company will remmend a dividend of 25 per cent. for the half-year at the meeting to be held on 1e 23nd inst.

the 22nd inst.

The directors of the National Provincial Bank of England have this day declared a half-yearly dividend at the rate of 8 per cent. per annum, and a half-yearly bonus of 6 per cent.

Vice-Chancellor Malins has appointed Mr. E. G. Clarke (Barnard, Clarke, and Co.), Lothbury, official liquidator of the Llynvi Colliery Company (Limited).

(Limited).

The numbers are published of the bonds, amounting to 26,900/., of the Five per Cent. Mortgage (Spanish Coupon) Bonds of the Rio Tinto Company, which have been cancelled in accordance with the provisions of the trust deed.

The directors of the National Provincial Bank of England notify that on Monday next, the 13th inst., they will open a branch at Serle-street, Lincoln's Inn Fields.

which contains: Original Correspondence: Coal under the Severn; Steam Traction on Railways; Mining Interests of England and Wales (R. Tredinnick): Blende Mines of Cardiganshire (A. Francis); Mining in Cardiganshire, No. II. (S. Trevethan); New Consols Tin and Arsenic Works; Wheal Grenville, and its Management; West Maria and Fortescue Mines; Frontino and Bolivia Gold Mining Company.—Tasmanian Tin—Foreign Mining and Metallurgy—Prize Essay (T. H. Allan)—Treatment of Auriferous Ores—Chapter on Mining—the Surrender Mine, Reeth High Moor—Geology of Croydon—British Manufacturing Industries—Handbook for Charocal Burners—Coal Trade—Cyclops Blower for Forges (illustrated)—New Process of Treating Ores—Patent Matters—Meetings of the Almada and Tirito, Tecoma, Blue Tent, Imperial Brazillan Colleries, Russia Copper, South Toleanne, Manty-Glo and Islaina Ironworks, West Godolphin, and West Craven Moor Companies.

Glo and slaina Ironworks, West Godolphis, and West Craven Moor Companies.

British Lead Mines.—We have been favoured with an early copy of Mr. Murchison's new work, published to-day. We cannot do better than commence our remarks by using the words of the opening sentence of Mr. Murchison's preface: "During an un usually intense and prolonged general depression, it is cheering to be able to point out at least one industry that is in a sound and prosperous condition." And Mr. Murchison is quite justified in stating that this is particularly satisfactory to him, as it is a forcible confirmation of the views he has expressed for so many years regarding the advantages of British lead mining. The indiscriminate prejudices which exist against mining generally is, to say the least, very unfair; for, when a few thousands are lost by it, we hear much more about it than when hundreds of thousands have vanished (no matterhow) in other pursuits. We believe Mr. Murchison speaks truly when he says that more money is lost in one year by fraudulent practices in British commerce and finance than in a whole generation in British mining. After some very sensible remarks on this subject, and some hints as to the points to consider in forming an opinion as to the merits of a mine, Mr. Murchison goes thoroughly, and in a most able manner, into the object of his pamphlet—the superiority of mining for lead over that for copper and tin; and the way in which he shows this must be convincing even to the most superficial reader. He says that a strong proof in favour of lead mining is the fact that many mines of that metal are worked by one or a few persons, as private undertakings, while no one will take the risk of carrying on a copper or tin mine under similar circumstances. The Van, Tankerville, and Roman Gravels Lead Mines—which have recently become so famous as public companies—were made successes by private enterprise before they came into the possession of the present proprietors, who have simply increased those successes by Mr. Bar

The maps will also be found very useful.

TANKERVILLE.—The report states that the winze below the 152 (down 8 fms. 2 ft.) has considerably improved this week, and it is evident that they are in a magnificent course of ore. The ore course in the 152, over the winze, is 15 to 16 fms. (query feet) wide, but the indications below the level show a richer and wider lode than anything seen overhead. They have bored into the lode in the 167 for 4½ ft., and are not through the ore. The first 2 ft. passed through nearly solid lead, and the remainder is rich in ore stuff and spar. There has been a rich lode in sinking from the 152 to the 167, and the mine is looking more than well. They have sampled 150 tons for the month. for the month.

New CHIVERTON.—The lode in the shaft has further improved, now worth 18t, per fathom. This looks well for the 50, which will soon be reached. The stopes in the 25 and 35 are yielding their usual quantities of lead ore.

usual quantities of lead ore.

The sulphur and silver-lead mines situated in the lands of the Hon. Mr. Gore, North Wales, are being launched into a public company, with ample capital to develope the mineral resources of the property effectively and with practical dispatch. The mines at present are capable of returning 40 tons of sulphur daily, and the forebreast of the deepest day level has a leader of lead ore fully 18 in. wide. All practicals agree that the discoveries made are most important, while the future promises a great, expansive, and profitable concern.

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COMPANY (LIMITED).

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r SPECULATION. F. W. M. and Co. have Special Business in the above Shares. 14, Pinner's Hall, Old Broad-street, E.C. [Established 1857.]

E A D M I N I N G C O M P A N I E S. — Investor are informed that This DAY is published, price 1s. 6d.,

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CHESTERFIELD.

FOR THE ADVANCEMENT OF SCIENCE, LITERATURE, AND EDUCATION.

A Ta PUBLIC MEETING, in CHESTERFIELD, on 9th December (His Grace the Duke of DEVONSHIRE in the chair),

(His Grace the Duke of DEVONSHIRE in the chair),
Subscriptions amounting to £5200 were announced. Among the speakers were—
The Mayor and ex-Mayor of Chesterfield, Lord Edward Cavendish, Admiral the
Hon. F. Egerton, M.P., Prof. James Stuart, M.A., Honorary Secretary to the
Syndicate for University Extension, Cambridge, Rev. J. M. Mells, M.A., F.G.B.,
Messrs. Chas. Binns, J. Stores Smith, J. Shipton, F. Swanwick, A. Carrington,
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9th December, 18:5.

COAL MINES REGULATION ACT, 1872.

EXAMINATION FOR MANAGERS' CERTIFICATES OF COMPETENCY.

DISTRICT UNDER THE CHARGE OF JAMES WILLIS, Esq., H.M. INSPECTOR OF MINES.

PERSONS desirous of being EXAMINED in this District for MANAGERS' CERTIFICATES OF COMPETENCY, under the above-numed Act, should at once COMMUNICATE with the Seoretary to the Board of the above-mentioned District, at the following address:—

CARLTON HOUSE, LOW FELL, NEAR GATESHEAD.

By order of the Board,
GEO. SOUTHERN, Secretary.
N.B.—Persons who do not reside within the district are equally eligible for examination with those who do.

EXPLOSIVES ACT, 1875.

38TH VIC., C. 17.

NOTICE IS HEREBY GIVEN, that the following ORDERS IN COUNCIL and ORDERS OF THE SECRETARY OF STATE, made in pursuance of the Provisions of the above-named Act, and which have already appeared in the London, Edinburgh, and Dublin Gazettes, have been published by Her Majesty's Stationery Office, and can be purchased at One Penny each through any Bookseller. ORDERS IN COUNCIL.

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ORDERS OF Explosives other than Guupowder.

3.—As to Magazines for Explosives other than Guupowder, whether with or without Guupowder.

4.—As to Small Firework Factories.

5.—As to Stores for Guupowder exclusively.

6.—As to Stores for Mixed Explosives.

7.—As to Premises registered for keeping Mixed Explosives.

8.—As to keeping Explosives for Private Use and not for Sale.

9.—As to the Sale of Explosive.

10.—As to the Importation of Explosive.

11.—As to the Importation of Explosive.

ORDERS OF SECRETARY OF STATE. ORDERS OF SECRETARY OF STATE.

No. 1.—As to Floating Magazines for Gunpowder.

" 2.—As to Floating Magazines for Gunpowder.

" 3.—As to Floating Magazines for Explosives other than Gunpowder, whether with or without Gunpowder.

" 3.—As to the Packing of Explosives other than Gunpowder.

" 4.—As to the Convoyance of Explosives on Roads and in certain Special Cases.

Abstracts of the provisions of the Act, so far as they relate to different branches of the Trade, and to the different interests concerned, together with Forms of Application for Licenses, and Continuing Certificates, and Forms of Registration, have also been prepared: and a List of such Abstracts and Forms has been published, and can be purchased in the same manner as the Orders above named. Home Office, 9th December, 1875.

MINING ENGINEER.

MINING ENGINEER.

WANTED, a CERTIFICATED ENGINEER, who has had practical experience in Coal, Coke Manufacture, Coal; Washing Machinery, &c.: Fire-brick Making, Ironstone Mines. He will be required to take CHARGE of the COLLERIES, BRICK WORKS, and IRON MINES of the SOUTHERN STATES COAL, IRON, AND LAND COMPANY (LIMITED); and to reside in the State of Tennessee. None need apply except those who have been engaged in the same occupations. State age, salary required, an I references. Apply to the Secretary, Exchange Buildings, Stockton-on-Tees.

TO MINING COMPANIES.

A MINE AGENT, of long experience in Cornwall and Foreign Countries—thoroughly acquainted with Pumping and Winding Machinery, the Separation of Lead and Blende, and other Minerals, mechanically; a good knowledge of Copper Smetling, speaks English, French, and German—DESRES a RE-ENGAGEMENT. Inspections and negociations undertaken. Unexceptionally of the Company of t

ionable references. Address, "C. E.," St. Antonin, Porte Restante, Tarn-et-Garonne, France.

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WANTED, by a Young Man, aged 21, a SITUATION as ABOVE in the OFFICE of a COMPANY. Good shorthand writer, and quick at figures. Address, "Shorthand," 32, Tachbrook street, London, S.W.

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Notices to Correspondents.

Much inconvenience having arisen in consequence of several of the Numbers using the past year being out of print, we recommend that the Journal shauld siled on receipt; it then forms an accumulating useful work of reference.

MINERAL STATISTICS—Will some correspondent kindly give me the yearly production of pig-iron in the Cleveland district (which, I presume, comprises Durham, Northumberland, and the North Riding of York) for 1850, '51, '52, '53, '54, '55, '66, '57, and 1858? I have these particulars from 1859 to the present time, but wish for the earlier figures, so as to show the progress of the Cleveland iron tradesince its important discovery in 1850 by John Vaughan.—T. M.: Manchester. Mr. Arthur Dean.—We have a letter for Mr. Dean, which we shall be glad to forward on learning his address.

GOLD IN WALES,—We regret that we are compelled to postpone the letter from Mr. T. A. Readwin intended for this week's Journal until next Saturday from Mr. T. A. Readwin intended for this week's Journal until next Saturday.

*Received, —"J. B." (Paris)—"One Interested" (San Francisco)—"A Reader"

(Satro)—"O. S. R." (Colorado): Shall be glad to receive it—"S. G.:" Will be

forwarded—"A Shareholder" (Carmarthenshire Anthracite Coal and Iron Com
pany): The voluntary winding up of the company has been ordered to continue

under the supervision of the Court of Chancery—"A Reader" (Truro) had

better write to the paper in which the statement appeared—"A Shareholder"

(Van Consols)—"A Shareholder" (Wheal Grenville)—"A Constant Reader"

(Tarus)—"A Shareholder" (Wheal Grenville)—"A Constant Reader"

(Brussels): The information shall be given, probably next week—"M. E.:"

(Neath)—"A Shareholder" (New Rosario): A report of the meeting appeared

in last week's Journal—"N. T. R." (Dudley): We should feel obliged by the

particulars being forwarded—"Inventor:" No; you must apply to a patent agent,

who will advise you how to proceed—"Correspondent" (Leitrim): Send us the

particulars, and, if possible, we will publish them—"H. F."—"S. T. R."—"S. B."

THE SUPPLEMENTARY SHEET.—We have received occasional complaints, and of late a good many, that the Journal is delivered by country booksellers without the Supplement. Subscribers would oblige us by demanding that the paper should be handed to them complete, as every Journal is accompanied by the Supplement when it leaves our office, and the fault of omission must rest with the country bookseller or their London agent.

Supplement when it leaves our office, and the fault of omission must rest with the country bookseller or their London agent.

Scale for Advertisements.—Our charge for general advertisements is —Forsix lines and under, 4s.; per line afterwards, 8d. Average, 12 words per line. Important Notice.—Reduction of Postage on the "Mining Journal to many countries will be reduced to one fourth. Henceforth the subscription will be 1l. 10s. 4d. per annum (39 frs.), postage included, for the following countries. The amount will, if desired, be collected at the subscript's residence at the end of each year. The subscription continues until countermanded:—Austria, France, Belgium, Denmark (including Iceland and the Farce Islands), Egypt, Germany, Gibraltar, Greece, Heligoland, Italy, Luxemburg, Netherlands, Norway, Portugal (including Madeira and the Azores), Roumania, Russia, Servia, Sweden, Switzerland, United States, Malta, Turkey, Morocco, Tunis, and the Canary Islands. Spain 1l. 19s. (50 frs.) Avis Important—Aux Abonnés etrangers du Wining Journal."—A cause de la nouvelle Convention Postale il y avait, à partir du ler Juillet 1875, une grande diminution du prix de l'abonnement du Mining Journal pour bien de pays dont le taux des postes était jusque là bien élevé. A partir du ler Juillet le prix de l'abonnement est de 39 frs., le port compris, pour l'Autriche, Belgique, France, Danemarck et ses dependances, Roumanie, Russie, Servie, Suède, la Suise, la Turquie, l'Afrique septentrionale, etc. Le montant, si l'on le veut, sera touche a domicile, la fin de l'an. L'abonnement continuera sauf avis contraire.

AMERICAN SUBSCRIBERS.—In reply to several enquiries, it may be stated that subscribers in the United States can be supplied with the Mining Journal, post free, at the price of \$850c. gold per annum, payable in advance, by remitting to Mr. D. Van Nostrand, publisher, and importer of scientific books, &c., Murray-street, New York; or, direct to our Office, 26 Fleet-street, E.C.

THE MINING JOURNAL,

Bailway and Commercial Gazette.

LONDON, DECEMBER 11, 1875.

THE CALAMITIES IN OUR COLLIERIES.

THE CALAMITIES IN OUR COLLIERIES.

Very distressing is the news which we have this week to record in connection with the working of our coal mines. For several years we have been strikingly free from accidents of magnitude, but now they have come upon us at once. We much fear that nearly 200 will have been the total loss of life since our last publication. Perhaps 140 or 150 of these fell on Monday in the Swaithe Maine Colliery, which belongs to the Edmunds Main and Swaithe Coal Company, the members of which are Mr. Joseph Mitchell, Mr. Chas. Bartholomew, and Mr. John Tyas. It forms one of the nest of collieries which have sprung into existence in recent years in the vale of Worsborough, at one time a beautiful valley, some three miles from Barnsley. The colliery is connected with the Edmunds Main, in which, on Dec, 8, 1862, an accident happened, by which 57 lives were lost. At that time the Swaithe pit was being opened up, in order to give increased ventilation to the Edmunds Main, and the explosion then resulted from a shot, which was fired with the object of connecting the two collieries. South Yorkshire, therefore, again comes to the front with a painful conspicuousness, and the Barnsley sean affords a further illustration of its deadliness. Only two miles away from the Swaithe Main Colliery is the well-known Oaks. comes to the front with a painful conspicuousness, and the Barnsley seam affords a further illustration of its deadliness. Only two miles away from the Swaithe Main Colliery is the well-known Oaks, where the same flery seam is worked, and where on Dec. 12, 1866, the greatest explosion which ever occurred in England "sent a thrill of horror over the whole country," 366 lives being then lost. In the same district is Lundhill, where on Feb. 19, 1857, 189 lives were lost. Both the Edmunds Main and the Swaithe Main Collieries are in the Worsborough Dale, and are not only among the most extensive, but are considered amongst the safest, best ventilated, and best managed in South Yorkshire. For a great many years Edmunds Main enjoyed a favourable reputation for immunity from danger, and Swaithe was thought about the best pit to work in throughout the district. The coal gotten is the well-known Barnsley "hard," 9 ft. thick. The system of working is the pillar and stall, usual in the district. All the men are supplied with Stephenson's or the Clanny safety-lamps—the former being used in the workings and the latter in the roadways—and naked lights are prohibited.

The colliery usually gives employment to between 500 and 600 men and boys, but only about 240 presented themselves at the pit bank to go down on Monday, although for a Monday 240 was a larger number than customary. The pit has two shafts, a downcast and an upcast, each of which is about 250 yards deep, and are 80 yards apart. The workings branch off 1700 yards towards the north, about 1000 yards towards the east, 400 yards towards the north, about 250 yards to the south. The pit is worked only during the day time, and there are two shifts, one going down early in the morning, and the other soon after noon. The 240 members of the morning shift descended at six o'clock on Monday, before which time the workings had been examined, and had been reported free from danger. The poor fellows had been at work between three and four hours—for the evidence is at present con

occurred nearer to nine or to ten, but the best authority, perhaps, just now available estimates it at the earlier hour. He is the blacksmith at the pit, and states that he was engaged in his shop as usual about five minutes to nine, when he was startled by a loud report like the going off of a cannon. He looked to the pit bank, and he saw a volume of smoke issuing from the shaft. One of the deputies said the report felt to him as if he had been struck on the neck with a bar of iron. The head gearing was indistinguishable for the smoke. the report let to film as it he had been struck of the field which head gearing was indistinguishable for the smoke. In a short time several mining engineers from the collieries around were on the spot. Amongst the earliest were Mr. John Mitchell, the certificated manager of the pit; and his brother, Mr. Joseph Mitchell, jun.; Mr. W. H. Peacock, Hoyland Silkstone Company; Mr. Miller, Strafford Main; and a large party from the Oaks Collieries, including Mr. Wren, Mr. R. Day, Mr. P. Hall, Mr. Dymond, Mr. Fred Barnaby, Mr. T. Briggs, Mr. J. Fairest, and Mr. G. Hall, New Oaks; Mr. R. W. Norton, Barrow Collieries; Mr. Beevors, Dodworth and Silkstone; Mr. Wedon, Swaithe Main, and Oswell, New Oaks. Exporing parties were formed, and Mr. John Mitchell himself determined to go down in charge of the first corps. On descending they found that the cage, which lay at the bottom at the time of the explosion, had been forced several yards up the shaft. For a short time their progresswas impeded, but a ladder was obtained, and by it the bottom was reached. It was then found that one of the hangers on, named George Linford, had been blown into the sump, where he was wedged in by a portion of the cage. After great ex-

ertions he was rescued and sent to surface, when he was found to be less seriously injured than had been at first supposed.

The exploring party then proceeded along the main, and discovered a fire at what is known as the "half-way," which is 350 yards from the pit bottom. Attention was then paid to the air courses so as to ensure sufficient ventilation, which was made good as far as the half-way. Other exploring parties were speedily formed as the colliers from the neighbourhood flocked to the scone; in fact, nothing could be nobler than the readiness with which the men came forward to risk their own lives to save their fellows. Between 12 and 1 o'clock there were more volunteers than were needed. Mr. Miller, Strafford Main, and Mr. James Wilson, Oaks, joined these parties. They descended along with Edward Williams and George Hall, deputy viewers at the Oaks. These explorers did their work wisely and well. They ascertained beyond all doubt that an explosion had happened in the lower dip, which was the worst part of the mine whers such a disaster could have taken place. They opened doors, hung up brattice sheets, extinguished the fire, sent a few corpses to surface, but more men whom they found unable to help themselves. Nearly all the men who formed what is called No. I district pit, which is nearest to the Edmunds main shaft, escaped by the roadway which was being cut at the time of the Edmunds main explosion, and which has ever since remained open. By-and-bye a conference of engineers was held. There were present Mr. Michell, sen, Mr. Joseph Mitchell, Mr. John Mitchell (the certified manager of the colliery), Mr. Miller, Mr. Dymond, Mr. Peacock, Mr. John Higson, Mr. Blythe (Wombwell Main), Mr. Batty (Darley Main), Mr. F. N. Wardell (Her Majesty's Inspector of Mines for the South Yorkshire district), Mr. Day, jun. (the Oaks), and other engineers and colliery managers of the neighbourhood. The plans of the levels and workings were examined, and it is believed then an opinion was expressed that of all those in

causes as these may arise, we must concur in much that has been written by certain of our daily contemporaries that so many terrible colliery accidents having happened in the winter months point to the necessity for a close watch being kept upon barometrical evidences, and those arrangements made by colliery managers which shall not leave the margin between sufficient and copious ventilation. so fine as we fear is sometimes the case.

INFRINGEMENTS OF THE MINES REGULATION ACT.

We fear that many persons about our mines and collieries have yet to learn that the Mines Regulation Act has to be observed. There is need that this should be borne in mind by those people in particular whose engagements are not of the most extensive class.

There is need that this should be borne in initial by those people an particular whose engagements are not of the most extensive class. For the benefit of numerous others similarly circumstanced, and having before us the calamities which are now again directing so much public notice to the working of our collieries, we indicate with some prominence certain of the convictions to which recent infringements of the Act have led.

At the West Riding Court, Bradford, Mr. Thomas Toullinson, owner of the Eccleshall Park Colliery, near Bradford, has been summoned on a recent occasion for no less than eight different offences. The colliery was a new one, and, according to Mr. F. Wardle, the district Inspector of Mines, the defendant had not provided an adequate amount of ventilatior, had not a competent person to inspect the mine and to daily report its condition, had not provided for the withdrawal of the men in case of danger, had not an adequate break and proper indication as to the position of the cage or load in the shaft, had not securely fenced the machinery in and about the mine, had not provided for daily inspection, had not kept the requisite books or a copy of them at the office of the mine for inspection, and had not posted up in a conspicuous place rules for the working of the mine. "Guilty" was pleaded to four of the charges, and by arrangementit was agreed that defendant should be fined 2l. and costs for inadequate ventilation, 5s. and costs in three other cases, and merely the costs in the remainder. Mr. Moses Cowcill, the confidential manager of the South Liberty Coal Pit, Long Ashton, has been fined 10l, for having failed to supply an adequate amount of ventilation at that pit. In this instance, it may be remembered, four men who were employed at a particular heading used safety-lamps, and were killed by an explosion which followed the introduction of a naked light. The scientific evidence in this case was very conclusive, for Mr. Cadman, Assistant Inspector of Mines for the western district, gave in ev

At the same Court where this conviction was recorded the deputy-bailiff was mulcted in the penalty of 2l. and costs for not having fenced off a place in the mine where fire-damp had been discovered and put up a danger board, for not having reported to the bailif, and for allowing a miner to pass through that portion of the work-ings before it was reported safe. The result of this carelessness was that there was an explosion, and one man was killed. A fi and costs has been imposed upon Mr. William Williams, and costs has been imposed upon Mr. witham withams, contery manager, under Mr. Thomas Jones, owner of the Tylacock Colliery, Pontypridd, for not having provided an adequate amount of ventilation at that colliery. The information was sustained by the most direct evidence, and it was shown that several portions of the colliery were charged with explosive gases. The allegation for the de-

therefore, devolves upon both miners and our responsible officers to put forth every exertion that prudence, skill, and experience may suggest for minimising the occurrence of fatalities in our mines and collieries.

THE PENINSULAR AND ORIENTAL STEAM NAVIGATION COMPANY.

Public opinion has been exercised, to a certain extent, of late as to the affairs of an important and old established steam shipping undertaking popularly known throughout the empire, and we might almost add throughout the world, as the P. and O. The steamers of

Public opinion has been exercised, to a certain extent, of late as to the affairs of an important and old established steam shipping undertaking oppularly known throughout the mpire, and we might almost add throughout the world, as the P. and O. The steamers of the P. and O. traverse great oceans, and bear the name and the fame of England into very remote regions, but the shareholders are just now not blessed with very liberal dividends. A very hard bargain is driven with the company by that stern and niggardly public department, the Post Office; and what with this stingy treatment, the competition of other lines of steamers, and the stagnation of Indian commerce, the company is only able to give its proprietors 3½ per cent. upon their nominal capital for the twelve months ending Sept. 30, 1375. But for the fall which has happily occurred in coal quotations of late, it is not at all improbable that the shareholders would have had to move on as best they could without any dividend—or, at any rate, with a still skinnier one than that actually proposed—for the past financial year.

The company has been making exertions for several years past to adapt its fleet more fully to the requirements of the times, and also to introduce into its steamers the latest modern appliances and improvements, with a view specially to a reduction in the consumption of fuel. The Poonah, the Bangalore, and the Travancore have been recently dispatched to the East, after having received new machinery, and other improvements. The work done in each case has been successful, and the results in point of economy of fuel and additional carrying capacity are satisfactory. The Simla—a vessel built in 1853, and which during her career did excellent service to the company—has been sold to Messrs. HOWER and Co., of Glascow, in part payment of new machinery which is to be supplied to the Tanjore, and sundry alterations which are to be carried out in that ship. With respect to the Tanjore it may be added that at the present time she is the only vessel cheap colonial coal.

ECONOMIC GENERATION OF STEAM-ROTARY BOILER.

Reference was made in the Mining Journal of May 4, 1861, to the practical trial of a new rotary boiler invented by Dr. F. Grimaldi, of Naples, and the improved arrangement was pronounced to possess many and important advantages. It was a 3-horse boiler, and in shape cylindrical, with curved ends, upon which trunnions were affixed to enable the boiler to be rotated through the stuffing-boxes provided in the brickwork in which the boiler was set; the steam and water supply pipes passed through the trunnions, so that almost the entire surface of the water could from time to time be exposed to the action of the heat. The extreme length of the boiler was 19 in., and its diameter 18 in., ordinary boiler-plate being used in its construction. The furnace was so arranged as to form a square chamber, with a cylindrical one above it, and it was in this cylindrical chamber that the boiler rotated, the lower side of the boiler dipping well into the square chamber; the grate surface was 16 in. dipping well into the square chamber; the grate surface was 16 in. by 12 in., and the diameter of the cylindrical chamber was about 2 ft., 5 in. being the depth of water kept in the boiler. The water was supplied by jets below the water line at each stroke of the feedpump, and the steam before being used in the engine was passed through a second vessel fixed in the flue, with which the top of the besides chamber companies and in order to superfect it. through a second vessel fixed in the flue, with which the top of the boiler chamber communicated, in order to superheat it. The superheater was not, however, considered an essential part of the invention. It was pointed out at the time that perhaps the greatest advantage possessed by Dr. Grimaldi's boiler was that as the fire acted upon every part of the boiler in succession, instead of upon a single point continuously, it promised increased durability, whilst the practical trial showed that the mere rotation was productive of considerable seconomy. iderable economy.

Some doubt having been expressed as to whether the economy

was due to the rotation or to the peculiar construction of the boiler and boiler chamber, the writer of the present article, who had merely manager, under Mr. Thomas Jones, owner of the Tylacock Colliery, Pontypridd, for not having provided an adequate amount of ventilation at that colliery. The information was sustained by the most direct evidence, and it was shown that several portions of the colliery were charged with explosive gases. The allegation for the defence was that the ventilating flue was being cleaned, and that there were no colliers employed at the time. We may now cite rather an unusual conviction, which exemplifies that the terms of the Act have yet to be learned by others than colliery officials and operative miners. Edward Brooks, a contractor for runnelling mines, has been ordered to pay 2l. and costs for having taken into the Bradley Hall Coal Mine, near Chorley, more than 4 lbs. of powder. A fatal accident had recently happened at the colliery, and while the Government Inspector was making an examination of the workings he discovered a vessel containing 11 lbs. of gunpowder. Defendant alleged that, as a contractor, he thought he was at liberty to have in the pit a larger quantity than was allowed an ordinary miner.

This list of recent magisterial decisions under the Mines Regulation Act might easily be supplemented with numerous other instances, but these surely should be enough to bring about a stronger the requirements of the new Act. Mining is attended with risks enough under ordinary conditions, and the progress of science has not yet absolutely vanished the spontaneous elements of danger. It, and boller chamber, the writer of the present article, who had merely attended as a scientist to witness the trial, and was not in any way

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the inner surface of the boiler shell with water at each revolution. The inner row act as superheaters, drying as well as generating steam. The rate at which the rotary boiler evaporated water into dry steam was such that it exhibited a steaming capacity of about four times that of well designed stationary boilers; or for the same area of grate the same rate of combustion, and same tube area the steaming capacity of the rotary boiler was nearly equal to that of a stationary boiler of the same type and diameter, and of not less than 15 ft. in length. The rotary boiler in this case was only 40 in. in diameter and 45 in. long, and having 32 flues. The power required to rotate this boiler was only 0.2 of 1 per cent. of the steam generated. Its evaporative duty was very high, when the fact that perfectly dry steam was produced was taken into account. The steam produced by this little boiler was very large. The quantity produced at 50 lbs. pressure per hour generated by the rotary was adequate to the performance in a good modern steam-engine of an amount of work equal to 44:1 horse-power, and consequently the steam capacity exhibited by the rotary boiler was more than three times that of an ordinary boiler of similar type, and constructed in accordance with good practice. The small size and great power of these boilers will render them especially valuable for use in ironworks and similar places where waste heat is to be utilised. On steamers and steam yachts the light weight and small size of the boiler, together with the fact that it can furnish an abundance of dry steam, will make the boiler very valuable. the inner surface of the boiler shell with water at each revolution. will make the boiler very valuable.

TREATMENT OF ORES AND MINERALS.—In the Supplement to this day's Journal is published the essay, by Thos. H. Allen, on the "Improved Treatment of Ores and Minerals raised in Cornwall and Devon." to which the Royal Cornwall Polytechnic Society awarded the "Mining Journal Frize" of books at their last meeting. The essay is altogether a creditable production, as it contains a large amount of useful information which, if not new, is at least not generally known or acted upon by the agents and others entrusted with the management of the mines in the counties mentioned. Some of the views expressed are unquestionably incorrect, but this is excusable when it is considered that there are absolutely no facilities in Cornwall or Devon for working men to obtain sound scientific knowledge, the only instruction open to them being conveyed through teachers whose notions are no less wild and untenable than their own. That the essay is worthy of consideration will be admitted by all who read it, and every facility will be offered for the discussion of the various questions raised, but in the discussion it should be borne in mind that the writer is an uneducated man, and that, therefore, no unfair advantage should be taken of any trifling imperfections in the technical descriptions. The author has evidently bestowed a large amount of care upon the essay, and the fact that it has satisfied the Council of the Royal Cornwall Polytechnic Society is sufficient evidence that his knowledge is up to their standard, and that he has well earned the prize. Were the practice more general in Cornwall for men of the character and knowledge of Thomas H. Allen to publish their views it would be more easy to correct erroneous notions and diffuse sound information, so that, if for no other cause, he has entitled himself not only to the recognition his essay has received, but also to the thanks of mine agents generally.

EMIGRATION TO AUSTRALIA.—An interesting lecture was delivered on Tuesday evening, by Mr. W. H. Brook, at Barnsbury Hall, Islington, on Victoria and its Gold Fields. Mr. R. Hancock occupied the chair, and on the table facing the audience were several models illustrative of the gold fields, and showing the mode of living on the diggings. The Chairman, in opening the proceedings, said he felt great pleasure in occupying the chair that evening, as he had always taken a deep interest in the subject of emigration, and as he knew Mr. Brook had spent some years in the colonies he did not doubt but that he would make his lecture instructive as well as amusing. Mr. Hancock then introduced the lecturer to the audience.—Mr. Brook, on rising, said there were thousands and thousands of acres of land in Australia as yet unexplored, and his object in choosing Mr. Hancock then introduced the lecturer to the audience.—Mr. Brook, on rising, said there were thousands and thousands of acres of land in Australia as yet unexplored, and his object in choosing the colony of Victoria for his topic that evening was to point out the remarkable changes that had occurred in that colony, and argued from that that what had been done in one place might with little material difference be easily accomplished in another, for it was his firm conviction that there was as much gold in Australia still undiscovered as had ever yet been found. The lecturer then proceeded to give an account of the first colonisation of Victoria in 1832, and traced its history right up to the year 1851, when he said Victoria was separated from New South Wales, and became an independent colony. Gold was also first discovered in Australia in that year, and Mr. Brook, after giving a brief account of the effect the sudden accession of wealth had upon the diggers, and related several amusing anecdotes of their extraordinary generosity and unaccountable hobbies. The lecturer then gave a graphic description of the town of Melbourne as it now stands, and pointed out very fully its principal buildings and places of public interest. He then asked the audience to step with him in imagination outside the boundaries while they paid a flying visit to some of the principal Victorian gold fields. Inglewood, a township some 250 miles from Melbourne, was, he stated, the richest goldbearing district in Port Phillip, and Bendigo was the next, a quartz reef in the former district having yielded 13,000 czs. of gold from 14,000 tons of stone. The largest nugget in Victoria was found at Ballarat, the place where gold was first discovered in the colony. This prize weighed 189 lbs., and was worth 10,000. After a brief description of the mode of extracting gold from the quartz and the routine of alluvial digging, and describing the manners and babits of the aborigines, or Victorian natives, Mr. Brook brought his lecture to a close by gi

IMPROVEMENTS IN GAS MAKING.—At the Society of Engineers' meeting, on Monday, Mr. F. W. Hartley read a paper "On an Improved Method of Drawing and Charging Gas Retorts." The author first pointed out the objections to the present system of gas manufacture in distilling coals in thick layers and at high heats, with prolonged distillation. He observed that most of the recent inventions for charging and drawing retorts perpetuated the errors of that system. Mr. John West, of Maidstone, had succeeded in producing a machine which was successful in working, and was adapted for either large or small gasworks. The author then described Mr. West's invention, which consists first of a small wagon or charger, which, when filled with coal, is run into the retort, and by a very simple contrivance is made to deliver the coal in a layer about 3 in. thick on its return journey. The charger is carried on a trolley, which runs upon rails made to deliver the coal in a layer about 3 in. thick on its return journey. The charger is carried on a trolley, which runs upon rails laid along the retort house in front of the benches, the charger resting on a moveable stage, capable of being adjusted to suit retorts at all elevations. The trolley is provided with a hopper, from which coals are delivered into the charger, and the trolley is propelled along the rails by a winch worked by a boy. For the new system of charging, the coal has to be reduced in size; and this is effected by means of a simple breaker, which, together with a hoist or Jacob's ladder, is driven by the ordinary engines on the works. The hoist delivers the coals into a hopper fixed over the rails, and from which the hopper of the trolley is supplied. Mr. West uses a simple rake with which a man can clear the retort of coke at one draw. The author stated that the same kind of coals produced on the old system per retort per 24 hours from 4000 to 4300 cubic feet, and per ton 9800 cubic feet of gas, while on the new system the yield per retort was from 5300 to 5400 and per ton 10,300 cubic feet, with gas of a purer character. The retort power on the new system is stated to purer character. The retort power on the new system is stated to be increased nearly 18 per cent. the increased yield of gas per ton 5 per cent., and with Holmside coal and no Cannel, gas of from 15 to 16 candle power is produced. The author stated that with this apparatus the productive power per man would be increased more than 33 per cent., and that at London rates of wages the cost of all labour connected with gas working would arount color. than 33 per cent, and that at London rates or wages the cost of an labour connected with gas working would amount only to 1s. 9d. per ton, while the average in most works exceeded 2s. 6d. The saving in coals due to 5 per cent. greater production of gas would be nearly 4½ per cent. and at 18s. per ton, gave a saving of 9½d.; 8 per cent. greater bulk of coke was sold, and that was equal to

8d. per ton of coal carbonised. The author concluded by observing that the practical results of the adoption of the new system in works having 84 retorts would be a yearly saving of 8771. 5s. 6d., on a rental of 18,8451., or equal to 4½ per cent. on the rental.

Coal and Iron in the United States.—The production of anthracite coal in Pennsylvania to Nov. 6 this year amounted to 17,436,826 tons, against 17,614,483 tons in the corresponding period of 1874, showing a decrease of 177,657 tons this year. The production of bituminous coal in Pennsylvania to Nov. 6 this year amounted to 3,366,395 tons, as compared with 3,136,503 tons in the corresponding period of 1874, showing an increase this year of 229,892 tons. The aggregate coal extraction of Pennsylvania to Nov. 6 this year amounted to 20,803,221 tons, against 20,750,986 tons in the corresponding period of 1874, showing a final increase of 52,235 tons this year. English iron rails are quoted at New York at \$46 to \$50 per ton gold, while American rails have made at the works \$46 to \$50 perton currency. perton currency.

REPORT FROM CORNWALL.

REPORT FROM CORNWALL.

Dec. 9.—Serious as the drop in the tin standard announced last week was, its effect has been dulness rather than depression. Shares have been lower, but hardly to the extent that might have been anticipated. There is, in fact, a very general belief that tin is about as low as it well can be to pay at all; and that, consequently, the effect of the drop will not be confined to Cornwall alone, which, of course, would in the end bring matters round. Copper is a little weaker, but still the price is remunerative for mines when the product is considerable. South Caradon still retains its position as a dividend mine, and there is a strong probability of its continuing to do so. It is reported that some tributers have made a very veluable discovery in a part of the mine that has been abandoned for some years, and that they are getting a "sturt"—such as used occasionally to take place in copper mines in days gone by—300% in two months, by a couple of men, is no mean sum to earn.

that they are getting a "sturt"—such as used occasionally to take place in copper mines in days gone by—300l. in two months, by a couple of men, is no mean sum to earn.

There has been a good deal of nonsense talked and written about the borer trials at Dolcoath, and some people have even gone so far as to say that neither the Barrow nor the Darlington have ever done in Cornwall a farthing's worth of profitable work. Assuming the truth of this assertion, which would be assuming a very great deal, the sensible course would be to enquire why, if those machines work well out of Cornwall, they should not work well in. Now, this is really the course that is being pursued at Dolcoath. Both Mr. Loam and Captain Josiah Thomas know perfectly well that the Barrow borer can and does work in the North, and they are not likely to drop the experiment until they find out whether it will not work equally well here. They have got over two great difficulties—the hardness or the rock, by the use of better steel; the hindrance caused by prejudices, by appointing a man who is used to the machine to superintend its operations. The result has already been seen in a greatly increased speed of drivage, and if all goes well the machine is likely to do nearly three times as much this month as could be done by hand labour. The prospects are, therefore, by no means so dark as they have been represented.

Who will be the first to bring into Cornwall one of the pneumatic dressing apparatus described in the Mining Journal? It is hardly probable that it will take the county by storm, but there seems something very likely about it.

Mining appears to be making a spurt in Devonshire. For centuries the Combmartin Silver Lead Mines have been worked, and they are, in fact, quite historical. They made a profit well within the present century, but had long been idle, until during the past few days a party of Exeter speculators have resumed operations in what seems to be a likely locality, with very fair prospects of success. The leading spirits in th

of tin commence this month.

Our rainy season is over for the time, but it has been succeeded by what is for this part of the world intense cold. And at has left its work behind it. In several mines the bottom levels are under water, and Balymynhear, which had actually become a paying concern, has been drowned out altogether. Then too, the continual downears had injured for the time being corns of the first heaf selection. cern, has been drowned out altogether. Then too, the continual down-pour has injured for the time being some of the finer beds of clay. Moreover, the demand for china clay has not much improved, and although higher class clays continue to realise good prices, ordi-nary clays are not much in request, and it is doubtful whether many works are doing more than paying their working expenses. New clay pits are still being opened, although the warehouses at Run-corn are quite full. are quite full.

cay pits are still being opened, although the warehouses at Runcorn are quite full.

At last. The Liskeard Guardians have settled their mines rating dispute. When Linkinhorne and St. Cleer showed fight, and said they intended to keep what they had got, whether the Union wanted it or no, the board took counsel's opinion, and, finding it adverse, last Saturday passed the annexed resolution:—

"That inasmuch as the parishes of Linkinhorne and St. Cleer have virtually disposed of the arrears of rates received on account of the mining property assessed in those parishes, by means partly of orders made by the school board recently formed in them for payment to them of the large portions of such arrears of rate, and partly by applying other portions thereof for the relief of existing ratepayers, and seeing that the claims of the guardians for arrears of common fund charges should have been properly gravided for out of such fund that has been so improperly disposed of, and that it is most doubtful whether any rate made for the amount of such claims on the existing ratepayers could be sustained if opposed, and it appearing that, so far from any voluntary efforts to meet the first demand of the guardians being contemplated, a combination of those two parishes for resistance has been formed, your committee, after the fullest and closest investigation of the facts, and the law thereupon, and upon the advice of two eminent counsel, recommend that the guardians do relinquish their slaim on the parishes of Linkinhorne and St. Cleer. With respect to the parishes of Menheniot and Laureath, the committee recommend that the claims on those parishes be also withdrawn."

The overseers of Menheniot have also succeeded in obtaining an order for the payment of six rates made on Wheal Trelawny after it

order for the payment of six rates made on Wheal Trelawny after it was abandoned, and of one rate made on Wheal Mary Ann—ditto. The contention was that in neither case was there a beneficial occupation. Trelawny engines were kept going, but that was to drain Mary Ann, and when the rate was made on Mary Ann all operations had been abandoned. However, the Bench held that the setts were in occuption, and made the orders.

It is rumoured that the Great Cornish Consolidated Iron Mines Corporation will even yet be made one of the chief industries of the

county—and the future administration of its affairs will in all probability have the advantage of the individual energy and perseverance of the gentlemen to whom the county is indebted for their development, and for the Cornwall Minerals Railway.

Mr. Robert Blee, formerly of Truro and Redruth, but more recently of Plymouth, died last week at Redruth. As a writer on the health and disease of our Cornich wide.

of Plymouth, died last week at Redruth. As a writer on the health and diseases of our Cornish miners he will long be remembered, his contributions on those subjects to the reports of the Royal Cornwall Polytechnic Society bearing the impress of much thought. His statistics also were of great value, and showed that he had used unwearied exertions in collecting the best information from all parts of Cornwall on this important subject.

Mr. T. Cornish, of Penzance, records a fact anent of gold in Cornwall, which is worth preservation. He says:—"About 1850 one Mr. Emerson, a professional ehemist, obtained a patent for making a substitute for white lead, into the composition of which wolfram largely entered, and having ascertained that many western mines produced wolfram in abundance he established works at Stable Hobba, near Penzance. After awhile he found that his white lead had in it a faint tint of purple, and he ultimately traced this to the presence of gold. He then turned his attention to the chances of extracting gold from Cornish minerals, and adapted some of his machinery for the purpose. He selected for his first experiment a quantity of quartz from the neighbourhood of Liskeard, and after crushing somewhere about a ton of it, he succeeded in extracting quantity of quartz from the neighbourhood of Liskeard, and after crushing somewhere about a ton of it, he succeeded in extracting two small buttons of gold—one about the size of an ordinary waist-coat button, and the other smaller, but the experiment proved so costly that he never repeated it. I profited by it to the extent of obtaining two specimens of Cornish quartz, each containing a very small nugget of gold. Mr. Emerson, unfortunately for himself, discovered too late that although wolfram was plentiful enough in Cornwall he could not get it saved at a remunerative price, and that

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TRADE OF THE TYNE AND WEAR,

Dec. 9.—There is no change to notice in the state of the Coal Trade here, but little having been done during the past week. The Tyne has been crowded with laden vessels, and most of the works have been laid off two, and some more days. When the weather moderates a fair business may be expected in house and gas ccals. Manufacturing coal continues plentiful, as the dull state of the iron trade has much reduced the local consumption. Most of the iron and engine works &c., have been kept going, but some of them are only employed three days per week. The great works of Sir William Armstrong, and a few others, are still busy, and founders are also fairly employed in most cases. Of course, the great question in the coal and iron trades is the proposed reduction of wages, and those questions are not expected to be settled before the middle, or perhaps the end, of January. As it is, the works are kept going at a slow rate, and when it is possible old stocks are cleared away. Few contracts or engagements of any kind will be made under the present circumstances. A better demand has sprung up for pig-iron, and prices have improved a little; a few orders have also been received for rails and ship-plates. There is a good demand for shipment, both foreign and coastwise, and there is little doubt that if the wages question were once settled in the coal and iron trades here a better feeling would prevail, and the prospect would soon brighten considerably. Dec. 9.—There is no change to notice in the state of the Coal Trade

a better feeling would prevail, and the prospect would soon brighten considerably.

Mechanical ventilation continues to make progress here, and that the adoption of this mode of ventilation has tended very materially to increase the safety of the coal mines and prevent accidents cannot for a moment be doubted. Various machines have been tried in this district—the Lemielle, the Waddell, &c.—and lately a new machine by Mr. Cook, of Darlington, has been introduced in the Cleveland district; this latter machine is expected by those interested in it to excel all others, but it has not as yet been subjected to the ordeal of public opinion, as its performances have been kept almost secret. The Guibal fan has made great progress, and about 190 of these machines are now at work in this country. It has so far been proved to be the most effective and economical machine yet introduced. We hope to be able to give soon some account of the com-

orders of pulse opinion, as its performances may be seen kept kindes secret. The Guibal fan has made great progress, and about 190 of these machines are now at work in this country. It has so far been proved to be the most effective and economical machine yet introduced. We hope to be able to give soon some account of the comparative merits of this machine, and that of Mr. Cook.

The Pig-Iron Market was stronger at Middlesborough on Tuesday. The returns of the ironmasters' stocks show that the make for November was 165,553 tons, quite equal to that for October. About 10,000 tons more of pig-iron was shipped coastwise and foreign, as compared with the corresponding month in 1874. The most important feature of the returns is shown in masters' stocks, which declined 4675 tons, and are now standing at 71,671 tons. There are 112 furnaces in blast and 45 out. The returns, considering the local depression in the finished iron trade, is a most encouraging one. The rates of pig-iron were firmer. No. 1 is 55s.; No. 3,50s.; No. 4 forge, 49s., net cash. There is a strong demand for pig metal for the inland trade, and shipments are also fairly maintained. There is little improvement in the finished iron branches, and no change in the rates for rails, while plates and bars remain the same. The number of workmen unemployed increase, and the area of distress widens. The wages question will shortly be submitted to arbitration, as the preliminaries are being arranged. Until the decision of the arbitrators is given the employers are not likely to repeat the offer to the men to accept a reduction, as such action has been discountenanced by the Arbitration Board. The Cleveland ironstone miners have received notice of a reduction. The coal and coke trades are quiet, and prices are low,

A general meeting of the North of England Institute of Mining and Mechanical Engineers was held on Saturday, in the Wood Memorial Hall, Mr. Greenwell, of Poynton, Stockport, one of the vice-presidents, occupying the chair. From the minutes read by th

THE COLONIAL GOVERNMENT AND CLEVELAND RAILS,—An order for the supply of 6000 tons of rails has just been placed in the Cleveland district by the colonial authorities of England. The order has been divided between the Britannia Iron Company of Middlesborough, the Moor Iron Company at Stockton, and the Darlington Iron Company. It is understood that the prices quoted by the Solonial Government, have been considerably under those offered by Welsh firms—in one case as much as 7s. 6d. per ton—but the main object sparsently held in view in giving out the order has been to secure as early a delivery of the rails as possible. Two of the firms named have undertaken to deliver at the rate of over 100 tons per week. In trade circles there is a disposition to associate the cleumstances under which this order has been given out with the apprehensions of political troubles in the East. How far this conjecture may be accurate remains, of course, to be proved; but, in the meantime, the placing of such a large order in the Cleveland district has been a source of considerable satisfaction.

—Newcastle Daily Chronicle. THE COLONIAL GOVERNMENT AND CLEVELAND RAILS.—An order

REPORT FROM MONMOUTHSHIRE AND SOUTH WALES.

Dec. 9.—Additional gloom has been cast over the district this week by the occurrence of very distressing disasters. The great catastrophes of Risca and Ferndale will not be forgotten for years, but the district has for some time enjoyed an appreciable immunity from calamities of such an alarming character. The past week, however, seems to have brought with it a return of terrifying accidents in coal mines, and reminds the general public what perils surround the miner. Three accidents have occurred which are worthy of notice two of them being nephans the greatest terrors. surround the miner. Three accidents have occurred which are worthy of notice, two of them being, perhaps, the greatest terrores of the under world—the explosion of gas. The first explosion was at the Powell's Duffryn Steam Coal Company's New Tredegar Pit, and 23 lives were sacrificed, while a number of other men and boys were more or less injured. The others received warning of the disaster in time to escape. Close upon this followed an explosion at the Llan Pit, a few miles from Cardiff, the property of Messrs. Booker and Co., when 12 persons were killed and others injured. There is little doubt that to the great change in the state of the atmosphere these accidents are to some extent attributable, for the atmosphere these accidents are to some extent attributable, for the sudden lifting of the pressure on the surface causes great exudation of gas from the coal strata, but to what extent this is preventible has yet to be ascertained. There is, however, some reason for believing, it is thought, that the latter accumulation of gas, which was ignited, was caused by striking into an old working. which was ignited, was caused by striking into an old working. Against such an accident no mineral engineer would say that some, if not effective, precautions might be taken. The third accident was of less magnitude, but still serious, and seems to point to a lack of engineering knowledge or caution. The Pengraig Collieries, Rhondda Valley, were flooded by two men, who were driving a heading, striking into an old working, where a very extensive accumulation of water had taken place. The two men and a horse were consequently drowned. These occurrences, of course, cause a good deal of alarm, and for a short time must affect operations more or less, but, generally speaking, do not cause anything like

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panic at the other pits, which outsiders might imagine would be

the case.

In regard to the position of trade generally there is, unfortunately, still no change to report. The demand for coal has fallen off very considerably, and it is with great difficulty that some of the proprietors keep their men on at all. At the most flourishing pits not more than half-time can be worked. The total quantity of coal exported from Cardiff last mouth was 266,343 tons, which shows a decrease of something like 60,000 tons from the previous month. The shipments coastwise reached only 68,779 tons. This week meetings have again been held to urge the men to form a central Union for the Principality, and resolutions passed to endeavour to form a central Union for the Principality, and resolutions passed to endeavour to form a central Union for the Principality, and resolutions passed to endeavour to form a central Union for the Principality, and resolutions passed to endeavour to form a central Union for the Principality, and resolutions passed to endeavour to form a central Union for the Principality, and resolutions passed to endeavour to form a central Union for the Principality, and resolutions passed to endeavour to form a central Union for the Principality, and resolutions passed to endeavour to form a central Union for the Principality, and resolutions passed to endeavour to form a central Union for the Principality, and resolutions passed to endeavour to form a central Union for the Principality, and resolutions passed to endeavour to the second one by the company meeting, on Wednesday, was presided over by Mr. Hugh Mason, in the place of Mr. Richard Shaw, M. P., who has retired. The Chairman congratulated the company upon not having resorted to the lock-out. The Quantity of coal raised by the company during the year was 560,000 tons, which compared with 396,000 tons in 1873 and 435,000 in 1874. Their especity for producing coal is, however, very much greater, as shown by the fact that during the strike of the Association collieries the company raised equal to 780,000 tons. The mortgage regard to the position of trade generally there is, unfortunately

Examination of Mine Managers.—A meeting of the board for the examination of the managers of mines in South Wales was held on Monday at the Town Hall, Cardiff; present Mr. William Adams (in the chair), Messrs. T. E. Wales, H.M. Inspector of Mines, D. Davies, Aberdare; I. Glassbrook, Swansea; T. Forster Brown, C.E., Cardiff; G. Tasker, Merthyr Tydfil; D. Thomas, Swansea Valley; W. Hill Neath; and the secretary, Charles Henry James, Morthyr Tydfil. It was determined that the next examination for the granting of managers' certificates of competency, under the Mines Act, 1872, should be held at Cardiff, on Jan. 25, 26, and 27, 1876.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

Dec. 9.—That part of the South Staffordshire district of which Bilston is the centre is now threatened with a very serious calamity in the shape of a flooding of the whole of the mineral workings in an area comprising several square miles. For some time past the water has been rising steadily, and so honeycombed is the ground that almost every working, new and old, in the area is connected, and but for the pumping engines of Messrs. Groucutt and Sons, of Moxley, by this time there would have been quite an underground sea. Messrs. Groucutt have from time to time made applications for assistance from the Mines Drainage Commissioners, who, however, in the present state of their resources, are unable to afford the help which the urgency and importance of the case demand before next August. To meet the difficulty it is proposed to raise a voluntary fund amongst those most interested. With this object a large and influential meeting of coalowners was held in Wolverhampton yesterday, at which the whole matter was well ventilated. It is estimated the sum of 120%, per week for thirty weeks would meet the case, and of this amount promises for about 69%, per week were received. It is to be hoped that the whole amount will be raised, and thus prevent the calamity which would be otherwise inevitable. This voluntary movement has received the support of Col. Thorney-croft, Major Williams, Messrs. Ward, Sparrow, Addenbrooke, Groucutt, and other coalmasters of great influence in the district.

The demand for best coal in the South Staffordshire district is extremely buoyant, and, indeed, the supplies are becoming scarce. A splendid trade in best house coal is doing in the Cannock Chase district at well supported prices. For inferior household and forge coals the demand is only moderate, and selling prices continue to present more or less irregularity.

We much regret to learn that after a tedious trial sinking of nearly four years at Fairoak to the north of Cannock Chase, and after an

Case coal measures under their estate, have decided not to carry the boring to any greater depth, but at once to commence the sinking of the shafts.

To-day's quotations on the Birmingham Stock Exchange included the following:—Hamstead Colliery, 1½ prem., buyers; Cannock and Huntington Colliery, 1½ to 2 prem.; Aldridge Colliery, 4 prem.; Pelsall Coal and Iron, 5 dis.; Chillington Iron, 5 dis.; John Bagnall and Sons, 4½; Ivy House Colliery, 1 dis.; Cannock and Wimbelbury Colliery, 3 prem.; Patent Shaft and Axle, 5 prem.; East Cannock Colliery, 100 prem.

The South Staffordshire Iron Trade is very quiet both in the pig and the finished departments, and there is no feature of any importance since our last notice. The course of prices remains on the basis of 3l. for common cinder, and 4l. 10s. for native all-mine pigs, and of 8l. for common unmarked, and 10l. for good branded bars per ton.

The Iron Trade of North Staffordshire is without improvement as to demand, and prices are pretty much as last reported. Coal is in plentiful supply for manufacturing purposes, but there is a growing scarcity of good house coal, owing to the increased demand. Ironstone is being sent in considerable quantity into the South Stafford-

SOUTH STAFFORDSHIRE AND EAST WORCESTERSHIRE MINING ENGINEERS.

The monthly meeting of South Staffordshire and East Worcester And monthly meeting of South Stationships and East Worcestershire Institute of Mining Engineers was held, on Monday, in the Geological Museum, Dudley; Mr. John Hughes presiding. There were also present Messrs. D. Peacock, T. Latham (vice-president), T. Parton, D. Rogers, W. North, W. J. Hayward, W. Muuro, Alexander Smith (secretary), &c.—Mr. Richards Griffiths, mining engineer, Hales Owen-road, was unanimously elected an ordinary member.—The President nominated Mr. Peacock and Mr. W. North member.—The President nominated Mr. Peacock and Mr. W. North (two ex-presidents) as scrutineers for the forthcoming annual meet-

(two ex-presidents) as scrutineers for the forthcoming annual meeting.—Mr. Hayward and Mr. Parton were elected auditors.
The discussion on the suggested amalgamation of the South Midland Institute of Mining Engineer, with the South Staffordshire and East Worcestershire Institute of Mining Engineers, was resumed.
—The secretary read the resolution of the council, which was to the effect that the proposed amalgamation should be accepted; that such members as were willing and eligible should be elected, after such members as were willing and eligible should be elected, after approval, without entrance fee; all papers, transactions, and property to be the property of the larger Institute, which should not be liable for the South Midland's liabilities.—Mr. David Peacock be liable for the South Midland's liabilities.—Mr. David Peacock moved a direct negative amendment, on the ground that it would not be fair to the gentlemen entering that year, or in years to come, to pay one guinea, whilst the members of the South Midland came in for nothing. It was not a pecuniary question with him, but one of principle.—Mr. Field seconded the amendment, which was carried by a large majority of those present.

The meeting then proceeded to discuss Mr. Tom Parton's paper on "The Duties and Responsibilities of Managers, under the Mines Inspection Act." The President opened the discussion by thanking Mr. Parton for his admirable papers. He however differed in one

Mr. Parton for his admirable papers. He, however, differed in one or two matters. First of all he did not think it advisable to have a or two matters. First of all he did not think it advisable to have a certificated general manager, a certificated manager, a second manager or deputy, and an engineer, for there would be divided re-

sponsibility, and in small collieries the cost would be enormous. He spoke favourably, however, of the appointment of second-class managers. Mr. Peacock said the inclemency of the weather was such as to prevent a large attendance, and he should move that the discussion be adjouraed until after the meeting. This was carried.—Mr. Parton exhibited and explained Watton's improved signal bell for collieries. He commended its simplicity, and the members minutely examined the bell, and reported rather favourably upon it. Mr. Foley brought the question before the Institute as to whether a surveyor was bound to give up his plotted plans when he left his employ. He had been called upon to do so, after giving up the plans belonging to the company. Several members thought it was most unusual, and the President said it was like giving up a prescription after making up a bottle of medicine. Mr. Foley gave notice, so that the matter can be fully discussed in February.—The secretary laid before the meeting a clause in the Parliamentary notices of the Great Western Railway, which had reference to an unusual arrangement as to the purchase of mines.

REPORT FROM LANCASHIRE AND CHESHIRE.

-The Works of the Wigan Coal and Iron Company were on Dec. 8.—The Works of the Wigan Coal and Iron Company were on Friday last the scene of a terrible accident, to account for which seems almost impossible. At one of the new pits they are opening out near Wigan seven men were descending the shaft, when the cages collided, and the poor fellows were thrown to the bottom of the shaft, and, of course, killed instantaneously. Neither of the cages became disconnected from the iron guide-rods, although the second is now were wright demand the incompanies height winted in a cages became disconnected from the iron guide-rods, although the ascending one was much damaged, the ironwork being twisted in a most extraordinary way. The only supposition which seems to be put forward is that the men themselves caused the cage to hang unevenly, and to strike the one that was ascending. The inquest has been opened, but the facts have not yet been gone into.

The enquiry into the disaster which caused the deaths of two men et Stand Lava Calliary near Ruys closed on Saturday and it having

at Stand Lane Colliery, near Bury, closed on Saturday, and it having been shown that the chargeman, Haslam, had failed to carry out his instructions as to signalling, he was censured by the jury for not

instructions as to signalling, he was censured by the jury for not having taken sufficient care.

An important meeting was held in Manchester on Tuesday for the purpose of promoting Technical Education in South Lancashire, Mr. Alfred Hewlett (Wigan Coal and Iron Company) occupying the chair. It is proposed to enlarge the field of operations of the Wigan Mining and Mechanical School, and to erect for its accommodation suitable buildings, which are also to include rooms for a museum, collection of models, &c. 'Mr. Gilroy moved, Mr. Bryham seconded, and it was resolved: "That it is desirable to establish a mining school in Wigan in a separate building devoted to the seconded, and it was resolved: "That it is desirable to establish a mining school in Wigan, in a separate building devoted to the purpose, and that the following gentlemen be requested to act as a committee for the promotion of this object:—Messrs. J. Booth, H. Bramall, W. Bryham, G. Caldwell, G. L. Campbell, C. F. Clarke, J. Cross, G. B. Finch, G. Gilroy, A. Hewlett, T. Milligan, Maskell W. Peace, and W. J. L. Watkin, with power to add to their number." A list of subscriptions was opened; the Earl of Crawford has promised 1000t., and Mr. Hewlett 500t. The movement is looked upon with great favour in the district, and will no doubt be successfully carried out.

carried out.

The Lancashire and Cheshire Coal Associations' ordinary monthly meeting was held on Tuesday at the Clarence Hotel, in Manchester. There were great complaints with regard to the traffic of the district, which is, if it be possible, worse than last year. The railway companies are quite unable to cope with it, and if fogs come on the position of affairs will be deplorable.

The Coal Trade is brisk, and prices are well maintained, especially for coal from the best seams. Burgy and slack are plentiful, but the demand for these kinds has improved lately. The Iron Trade is slightly better, but still very dull indeed. There is an indication that higher prices are anticipated in an evidently greater desire to bring forward than would seem a little while ago.

NORTH LANCASHIRE AND CUMBERLAND EXCHANGE.

There was an average attendance on 'Change, at Barrow-in-Fur-There was an average attendance on 'Change, at Barrow-in-Furness, on Monday, and a better feeling was evidenced among business men. Prices of iron are firm and undisturbed, and 77s. 6d. is still the market quotation for No. 1 Bessemer, while No. 3 forge iron maintains its value at 72s. 6d. A fair enquiry is still experienced for both hematite forge iron and Bessemer, and one or two contracts representing a fair amount of iron have been secured during the week at current quotations, but care is being displayed on the part of the purchaser in confining the limit of his orders, and on the part of the maker in not making more iron than is actually required to of the maker in not making more iron than is actually required to meet the demand. It is not likely that the output of iron will be increased during the present year, as makers and merchants are de-sirous of seeing what January brings forth before they extend their business or before they produce more iron than they know will be required. Iron ore is in better request, and a few good contracts have been renewed, prices being a little stiffer. The coal trade is a trille stiffer, and colliery proprietors are asking more money. Shiping is indifferently employed, and freights are unremunerative.

REPORT FROM DERBYSHIRE AND YORKSHIRE.

REPORT FROM DERBYSHIRE AND YORKSHIRE.

Dec. 9.—A meeting of the Silkstone Fall Colliery Company was held to-day at the King's Head Hotel, Barnsley, Mr. Baker in part of 1872, with a paid-up capital of 50,000l., in 5l. shares. Shortly after its formation a dividend of 25 per cent. was declared, and the shares went up to 2l. prem. After that, notwithstanding the fact that coal was higher than ever it was known to be, the company collapsed, on the ground, as stated by the Chairman, that ten times more had been paid for the colliery than it was actually worth. At a meeting held in August Mr. Baker was appointed liquidator, but the matter having been brought before the Appelate Court, it was decided that there was an informality in the proceedings, and that another metizg relative to the winding up must be held. Hence the meeting of Thursday, specially convened for the purpose of appointing a liquidator. Amongst those present were the Chairman, 13. B. Baker, Esq.; J. Culpen, Esq., and Dr. Hollings, directors; as well as Mr. Klmber, sollcitor, London; Mr. Warwick, Norwich; Mr. Dugdale, Mr. Robinson, Mr. Gowan, Mr. Perkinson, &c.

Mr. Baker, the Chairman, in opening the proceedings, stated that the company, formed under such apparently favourable circumstances, and which is to pay the shareholders at least 24 per cent, besides putting side a sum sufficient to clear away the capital in about 14 years, had been a decided failure. Of course, some persons had largely benefited by the failure of the company, which had been paid off. The same had been the case with many other of their creditors. One of the shareholders, Mr. Warwick, who as the last man on the list of shareholders, and who evidently came in at the last moment for the purpose of getting the whole concern into his own hands, had issued a circular soliciting proxies os as to get the remaining funds into his own hands. Legal proceedings had been taken by that gentleman and those who supported him, and the result was the meeting of that day. Mr. Warwick, who was

Sheffield Wagon Company antagonistic to the interests of the Bilastone Landompany.

Mr. Warwick said that such was not the case, for he never had any communication with anybody belonging to the Sheffield Wagon Company.

The Chairman said that at the last meeting but one Mr. Warwick stated that he had received \$1 proxies, but after that it was found they had dwindled down to six—a fact in itself most significant. Mr. Baker then read some letters he had received from some of the proxies formerly given to Mr. Baker. In conclusion the Chairman said as there would be a balance of something like 2004, after all their engagements were met, he should propose that the amount should be given in support of the widows and orphans caused by the explosion at the Swaithe Main Colliery. He then moved the following resolution:—"That it having been proved to the satisfaction of the company that it cannot by reason of its liabilities continue its business, it is desirable and advisable to wind-up the same, and that a liquidator be appointed of the said company."

The motion was seconded by Mr. Culpen, a director.

Mr. Robinson said he had two or three questions to ask the Chairman. In the first place he wished to know how it was that the directors decided to dispose of the stores of the company without putting any reserve price on them, for some of the goods were actually given away; and he also wished to know how it was that the directors sold the effects and the lease of the coal without consulting the shareholders; and why, before expending something like 2000l, in making bricks, they did not first test the clay to see what it was worth?

The Chairman said the directors, finding the concern was a losing one, were fully justified in selling the plant to pay off the bank debt. With regard to the fire-clay, it was useless to work it when the coal was found to be of no value. But the loss with respect to the fire-clay was altogether only between 200l. and 300l. He felt glad that the matters had turned out as they had done, for all the creditors of the company had been paid, and they had a balance in hand of about 250l, to earry out the voluntary liquidation.

Some discussion then took place relative to the shares given to the original directors to qualify them, and it transpired that some of them had to pay for them through legal proceedings.

Mr. Kimber axid proceedings had been taken against two of the old directors, and about 4000l, had been recovered.

Ultimately Mr. Baker was appointed liquidator, having received a majority of three-fourths of those present, as well as of proxies. The first resolution was also agreed to. On the part of Mr. Warwick it was understood that further legal proceedings would be taken to upset the decision of the meeting.

Opening Out of An Extensive Coal Field.—On Wednes-

OPENING OUT OF AN EXTENSIVE COAL FIELD.—On Wednesday the Silkstone coal was struck at the colliery belonging to the Barrow Hematite. This is the first time that the Silkstone coal has been reached from the Barnsley bed, so that an important problem has been solved, and one that has been watched with great interest, for the coal turns out to be of excellent quality and rather more than five feet in thickness. The depth of the shaft is 446 yards, so that the pit will be one of the deepest in Yorkshire, whilst the seam in extent may be computed by hundreds of square miles, as the thick coal is worked from Nottingham to beyond Barnsley. miles, as Barnsley.

MEMORIAL TO GEORGE STEPHENSON.—A crowded public meeting was held at Chesterfield, on Thursday, under the presidency of the Duke of Devonshire, Lord Lieutenant of Derbyshire, to raise funds to build a public hall in memory of George Stephenson (who lived many years at Chesterfield, and is buried in one of the churches in that town), the hall to be devoted as a home for the various literary educational, and scientific institutions of the Derbyshire coal field, of which Chesterfall is the strengles of the Derbyshire coal field, of which Chesterfield is the natural centre. About 6000/. was subscribed, and among the other speakers were Prof. Stuart, Cambridge University; Admiral Egerton, M.P.; and Lord E. Cavendish, President of the Chesterfield and Derbyshire Institute of Mining, Civil, and Mechanical Engineers.

DEEP SHAFTS AND MINES.—During last May the shaft of the argentiferous lead mines of Przibram attained a depth of 3280 feet After various trials, borings, &c., dating from the fourteenth century, actual working commenced at these mines in 1779. In 1800 the shafts were 870 ft. deep, and 2345 ft. in 1865. During the first 96 years of working the annual increase of depth was 34 ft., and in the last 10 years it has been regularly increased 88 56 ft. The following table gives the depths and situations of the deepest mines:—

Country.	District.	Mineral,	Name of Mine.	Depth Feet.
Wurtemburg	Jagstfeld	Salt	Friedricshall	544.4
Russia	Turjinsk	Copper		606.8
Bavaria	Stockholm	Coal	Max	859-3
Portugal	Palhal	Copper	Taylor	1079
Baden	Hagenbach	Coal		1082
Pays-Bas	Kerkrade	Coal	Wilhelm	1092
Sweden	Bersbo	Copper		1377
Italy	Gavarrano	Lignite	Monte-Masio	1443
Spain	Canada	Silver	La Luerti	1548
Hungary	Schemnitz	Gold and Silver.	Amalia	1771
Norway	Kongsberg	Silver		1:69
France	St. Chaumont	Coal	Saint Luc	1076
Great Britain	Wigan	Coal	Rosebridge	2443
Prussia	St. André	Silver	Samon	2533
Saxony	Zwickau	Coal		2637
Belgium	Gilly	Coal	Viviers	2320
Austria	Birkenberg (pro-			
	vince Przibram)	Silver and Lead.	Adalbert	3280

-Revue Industrialle.

Original Correspondence.

WHEAL GRENVILLE.

SIR,-It was not my intention to have recalled what must be an unpleasant fact to the person immediately interested in one of the resolutions of the meeting of the shareholders of this mine held on the 19th ult., but as "Argus" appears to be the mouthpiece of the late secretary, I cannot allow the statements contained in his letters published in the Journal of the 27th ult. and 4th instant to pass without a few remarks from myself, as the solicitor under whose

advice the recent proceedings were taken.

I will say but little in respect of "Argus's" letter of the 27th ult., for its fallacies were exposed in the very able letter which immediately preceded it, and your readers having the facts thus brought before them side by side were in a position to grasp the whole subject at once.

The case and online referred to by "Argus" in his letter of the

whole subject at once.

The case and opinion referred to by "Argus" in his letter of the 4th instant was printed, and I believe it was sent to each of the shareholders. "Argus," however, when writing this letter does not appear to have studied the case, for if he had done so he would have seen that counsel was requested to advise—

1.—As to the position of the shareholders and the validity of the rules and regulations, such rules and regulations not having been registered.

rules and regulations, such rules and regulations not having been registered.

2.—Whether having regard to the wording of the Stannaries Act, 1869, and more particularly the 4th, 5th, 6th, 7th, and 17th sections and the rules and regulations of the mine, it is necessary to hold a second meeting for the purpose of confirming, &c.

In order to obtain an opinion on the first point I did not consider it necessary to refer counsel to any particular section of the Act, whereas I thought it was necessary to do so when asking for advice on the second point, for these five clauses refer to the same subject matters, viz., "special resolutions," and they should, as I consider, be read together.

"Argus" has been good enough to favour us with his opinion on

"Argus" has been good enough to favour us with his opinion on the first point; now let us compare it side by side with the opinion given by Mr. Arundel Rogers:—

"Argus" says—

Mr. Rogers says—

"That a company having rules of its own (not inconsistent with the provi-sions of the Act) may continue under them if registered, but if not registered, as in the case of Grenville, they come under the operations of the Act itself."

Mr. ROGERS says—
"It appears to me that the rules and regulations of the 24th June, 1855, are still in force and binding upon the company, notwithstanding that they have not been registered under the 9th section of the Stannaries Act, 1869, although the fact of feet of feet. fact of non-registration would strength the views of any shareholder who might have any substantial grounds for alleging that the rules and regulations of 1825 had either been practically superseded by other resolutions or treated as of no binding

I leave your readers to judge as to the value to be attached to these two opinions, and I ask "Argus" has he any substantial grounds for alleging that the rules of Wheal Grenville have either been practically superseded by other resolutions, or treated as of no binding force? Have such rules ever been treated by the late scretary of the mine as so superseded and of no binding force? Did the late secretary treat them as superseded and of no binding force when he issued the treat them as superseded and of no binding force when he issued the notice calling the meeting for the 19th ult., in accordance with a requisition signed by two shareholders, holding in the aggregate 600 shares? I will only add that this requisition was drawn by myself in accordance with the 7th rule of Wheal Grenville Mine. The case then resolves itself thus—Have the shareholders of a mine the power of immediate dismissal of a servant, or is it necessary for them to call a second meeting, in accordance with the 7th section

the power of immediate dismissal of a servant, or is it necessary for them to call a second meeting, in accordance with the 7th section of the Stanary Act, 1869, to confirm such dismissal? It cannot require more than ordinary common sense to answer this question. With regard to the lease, books, papers, &c., the late secretary, after considerable delay, appears to have consulted a wiser friend than your correspondent "Argus," who says in his letter of the 27th ult,—"The secretary, or any other holding office under the

ad.

company, would commit a gross dereliction of duty were he or they to part with a single book, paper, or any funds belonging to it, except te a properly constituted authority," he having in a previous part of the same letter very strongly insisted that there was no properly constituted authority until after the holding of the second meeting; yet it appears that even the late secretary had some doubt as to the soundness of the advice thus tendered to him, for in his letter of the 4th inst. "Argus" says—"That he believes the late secretary was quite ready to deliver up everything connected with the company at once on receiving a proper indemnity."

Now, as to the indemnity; it is preposterous that a servant of a company should refuse to deliver up books, papers, moneys, &c., required for the purpose of carrying on the business of the mine, and which have come into his possession as such servant, on the plea that he is a trustee of the lease under which the mine is being worked; and I advised the committee that the late secretary had no legal or equitable claim to detain such books, papers, &c., though he was clearly entitled to retain the lease until he was indemnified against the covenants contained therein. And even if the late secretary were unable to compel the company to make an assignment of the lease, it is clear the Court of Chancery would not allow him to suffer, and would compel the company, if necessary, to indemnify him. to indemnify him.

I have not seen the lease, but the committee will in due course require an assignment of it, when they will be properly advised as to the "dead rent," and other stringent covenants, mentioned by "Argus," who seems to have taken a very active part in the financial management, and otherwise, of the Wheal Grenville Mine. FREDERIC CLIFT.

Austinfriars, Dec. 9. [For remainder of Original Correspondence see this day's Supplement.]

ECHOES FROM THE MINING MARKET.

The anticipations we expressed in our last remarks as to the immediate future of the tin market were fulfilled at a very early date, as a fall of 2l. per ton in the Cornish stendards was announced by the smelters before last week closed; in consequence, the market for all tin stock is in a most stagnant condition, as besides the depressed appearance of the metal, the season of the year is dead against any recovery. Thus the many hopes indulged in at the commencement of 1875 of a better 12 months than the last have been completely broken, for matters may be said to be far worse now than they were on Jan. 1, whilst the chances of permanent amendment are farther off than ever. We may have, of course, fluctuations in the standard—transient advances may take place—but from all we can see at present, and after carefully reviewing the experience that the last 12 months has given to us, we are fain to again express our opinion that it must be in reduction of costs and charges, and not from any great advance in the value of produce that those interested in our Cornish mines must look to for an amelioration of their prospects. We hear from Conwall that, although the official reduction has been 2l. per ton, the prices now offered to sellers of ores are fully 3l. per ton below the standards lately ruling. The copper market is not in a very buoyant condition, but there are no particular causes apparent to create anxiety. The season of the year will account for much of the depression and the dulness of trade generally for the last 12 months, coupled with a few adverse statistics on foreign supply of this metal in particular, for the rest. Lead is firm, and the market looks in a healthy condition. Coal is in fair demand; on the other hand, iron is again drooping.

The event of the week has been the publication of the West Chiverton accounts,

dition, but there are no particular causes apparent to create anxiety. The season of the year will account for much of the depression and the dulness of trade generally for the last 12 months, coupled with a few adverse statistics on foreign supply of this metal in particular, for the rest. Lead is firm, and the market looks in a healthy condition. Coal is in fair demand; on the other hand, iron is again drooping.

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MR. WILLIAM NORRIS is instructed to SELL, on Thursday, 23rd December, 1875, at Three o'clock precisely, on the premises, in One or more Lots, as may be determined upon at the time of sale, all those VALUABLE IRON MINES, known as

THE HENNOCK MICACEOUS SETT.

THE HENNOCK MICACEOUS SETT,

And the SOUTH EXMOUTH SPATHOSE LEAD SETT, situated in the parish
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Mines Corporation (Limited), under a grant to them for a term of 42 years, of
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Bouth-street, Exeter; from Mr. J. O. HARRIS, of Gandy-street Chambers, Exeter;
of from Messrs. Cope, ROSE, and PEARSON, 26, Great George-street, Westminster.
9th December, 1875.

SHARES IN A CELEBRATED MINING PROPERTY

IN CHILI, YIELDING LARGE PROFITS, FOR SALE.

TIELDING LARGE PROFITS, FOR SALE.

TO BE SOLD, BY AUCTION, at the Mart. Tokenhouse-yard, in the City of London, on Tuesday, the 23rd day of May, 1876, at Two o'clock precisely, by MESSAS, DRIVER, in One or more Lots, THREE SHARES (in Chili designated Barras) in the CARRIZALILLO MINING COMPANY. The company is divided into 24 shares only. The CARRIZALILLO COMPANY own the celebrated DESCUBRIDORA MINE, and the three adjoining setts of SAN JUAN, CANCHAS, and SAN FRANCISCO, which are all worked under one administration, and are situate about thirty-three miles from the Port of Pan de Azucar, from whence there is a good road.

CISCO, which are all worked under one administration, and are situate about thirty-three miles from the Port of Pan de Azucar, from whence there is a good road.

The DESCUBRIDORA MINE has been working since 1859, and has yielded large prefits. There are two steam-engines at work, one of 30-horse power and one of 8-horse power, for drawing, and there is also a newly-erected powerful engine, with Blake's crusher attached; by the use of the latter the company is enabled to dress and return the large accumulation of low-produce ore, which will now give a considerable profit. The mine is in thorough working order, and well stocked with materials, rails, jiggers, crushers, &c.

The adjoining setts of SAN JUAN, CANCHAS, and SAN FRANCISCO were acquired for the purpose of securing the ground around the Descubridora Mine, and they have since been worked on a limited scale. There is also a shop, which supplies the workpeople, and also horses, carts, and mules.

Also the YEGA WASHING AND JIGGING ESTABLISHMENT, with yards, houses, shep, and stores, about nine miles from Descubridora (a tramroad is being laid down from the mine, which will greatly lessen the costs of carriage to the Vega). There are also dwelling-houses, bake-house, yards, store-rooms, ore-floors, and mole at Pan-de-Azucar, with convenient launches for use in loading ships with the ore; and there is also belonging to the company a quinchique establishment, a watering place, situate about eleven miles from Pan-de-Azucar, on the road to Descubridora, with dwelling-house, shop, store, mule yard, water carts, mules, and harness; and in Chanaral Fort a dwelling-house of eight rooms, and spacious balcony and store below, with good counting house.

The company also have at Chanarai other houses and sites, and also a complete condensing apparatus, with four boilers, &c.

Two-thirds of Descubridora, San Juan, Canchas, and San Francisco, with some other property of comparatively small value, were sold in 1872 for the aggregate sum of £90,000, and since then profits ha

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LOT 4.—ONE SIXTH of certain MINERALS in the Manor of Geonearle, in St.
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Rose, Bast Downs, Wheal Briton, and others are situate in Geonearle.
LOT 5 includes portions of the MINERALS in Chiliy and Chytodden, Trevaunance, Bolster, Trewartha, and Towan, in St. Agnes. The setts now or formerly
known as St. Agnes Consols, Wheal Charlotte, Wheal Towan, &c., are either wholly
or in part within the above estates.
For further particulars, application should be made to Messrs. Olver and
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King, Solicitors, Bath; Messrs. Perggarva and Hopgekinson, Solicitors, Bath;
Mr. Kilvert Bartrum, Solicitor, Bath; or at the offices of
S. T. G. DOWNING, Solicitor, Redruth.

Dated November 22nd, 1875.

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TO CAPITALISTS, PROMOTERS OF PUBLIC COMPANIES, & OTHERS.

FOR SALE, in consequence of the Death of the late Senior Partner, John Candlish, M.P., the SPELTER WORKS, situate at Hendon, in the borough of Sunderland, in the county of Durbam, carried on under the style of "THE HENDON SPELTER COMPANY."

The works are situated within one mile of the well-known docks of the port of Sunderland, and adjoining the Hartiepool Branch of the North Eastern Railway, with which they are connected by high and low level sidings, and thereby placed in communication with all parts of the United Kingdom. Their position, within easy distance of both the ports of Newcastle and Sunderland, is very advantageous for the cheap importation of raw material, as also the forwarding of the manufactured article either by land or sea.

The ground on which the works are built can be either bought out or bought on a yearly perpetual ground rent, and any quantity under 20 acres can be included in the sale.

Being situated in the midst of the Durham Coal Field fuel of the best description can be obtained at a continuous.

a yearly perpetual ground rent, and any quantity under 20 acres can be included in the sale.

Being situated in the midst of the Durham Coal Field fuel of the best description can be obtained at a cost below almost any other part of the United Kingdom. There are 19 workmen's cottages, which can be bought with the works. The works contain 24 zinc furnaces, capable of producing 70 tons of metal a week, as also calciners, potlofts, machinery, blacksmiths' and joiners' shops, &o., of sufficient capacity for a much larger number. The works can, therefore, be doubled at a comparatively small cost.

The quality of the metal made at these works is well known, and it, therefore commands a ready sale at the highest prices.

Attached to the high level sidings are large depôts for coal, ore, &o.

The goodwill would, of course, go with the works, and they will be sold subject to all stock being taken at a fair market value.

The purchaser can also have the option of buying the CALCINING WORKS and VALUABLE MINES in SPAIN, thus allowing of the economical and regular supply of the raw material, and saving the mineowners' and merchants' profits. As the ore from the South of Spain generally comes as ballast for ships laden with esparto, it has been brought for this company at an average cost of 7s. per ton, sometimes as low as 4s. 6d.

Further particulars can be had en application to the company.

CHINA CLAY AND TIN, COPPER, AND IRON ORES

THE LESSEE'S INTEREST in certain VALUABLE CHINA CLAY AND TIN WORKS, in full operation, and also in certain CHINA BE DISPOSED OF.

Full particulars can be obtained on application to Mr. S. N. Scott, China Clay Merchaut, St. Austell.

CONDENSING AND NON-CONDENSING HORIZONTAL STEAM ENGINES, of the highest class, at low prices.
PUMPING AND WINDING ENGINES. First-class references.
ENGINEERS'S TOOLS of all kinds, unrivalled for arrangement and general usefulness, at low prices. Inspection invited.

POLLOCK AND MACNAR

BRITANNIA IRONWORKS, HYDE, NEAR MANCHESTER.

SINKING, WINDING COAL, &c FOR SALE, a 14-horse power PORTABLE STEAM ENGINE, with two cylinders, link motion reversing gear, drum 5 ft. diameter, with gearing to wind and pump, ready for delivery.

Also, a 35-horse power PORTABLE ENGINE, a 5-horse and an 18-horse power VERTICAL, all with link motion reversing gear—suitable for mining operations.

BARROWS AND STEWART, ENGINEERS, BANBURY.

In the High Court of Justice.

CHANCERY DIVISION .- VICE-CHANCELLOR MALINS.

IN THE MATTER OF THE COMPANIES ACTS, 1862 AND 1867.

IN THE MATTER OF THE CAPE BRETON COMPANY (LIMITED).

NOTICE IS HEREBY GIVEN, that Vice-Chancellor Sir RICHARD MALINS has DIRECTED a MEETING to be SUMMONED pursuant to the Joint Stock Companies Arrangement Act, 1870, of the several holders of debentures of the above-named company, or of the debentures or bonds issued by any of the three companies under mentioned, and purporting to constitute a charge upon any properties now vested in the above-named company for the purpose of ascertaining their wishes as to an arrangement proposed between the above-named company and the holders of such debentures or bonds, as aforesald, with a view to suspending the proceedings in liquidation and carrying on the undertaking of the said Cape Breton Company (Limited), and that such meeting will be HELD on TUESDAY, the 11th day of January, 1876, at Two o'clock in the afternoon, at the City Terminus Hotel, Cannon street, in the City of London, at which time and place all persons holding debentures of the above-named company, or debentures or bonds issued by any of the three companies under mentioned, and purporting to constitute a charge upon any properties now vested in the Cape Breton Company (Limited), are requested to attend.

The names of such three companies above referred to are—
(1.)—THE GLASGOW AND CAPE BRETON (NOVA SCOTIA) COAL AND RAILWAY COMPANY (LIMITED).

(2.)—THE SCHOONER POND COAL COMPANY (LIMITED).

(3.)—THE SCHOONER POND COAL COMPANY (LIMITED).

The said Judge has appointed Mr. Thos. FENN, of 6, Prince-street, in the City of London, Stockbroker, one of the debenture-holders of the Cape Breton Company (Limited) to act as Chairman of such meting.

D. J. KENNELLY Office the Sth day of January, Limited his name and address, and the number of and amounts purporting to the such that any properties to be allowed in a properties and address, and IN THE MATTER OF THE CAPE BRETON COMPANY (LIMITED).

Dated this 7th day of December, 1875.

N.B.—Any debenture or bond holder who, on or before the 8th day of January, 1876, sends his name and address, and the number of and amounts purporting to be secured by his debentures or bonds respectively to SAMUEL LOWELL PRICE, of 13, Gresham-street, in the City of London, one of the Official Liquidators of the above-named Cape Breton Company (Limited), will have sent to him a printed form of proxy duly stamped; and also a print of the resolution which has been suggested by the Vice-Chancellor as embodying the points upon which he desires to be informed of the wishes of such debenture or bond holders.

THE BWLCH-Y-GARNEDD SLAB QUARRY,
County of DENBIGH, TO BE LET for a TERM of YEARS, the lease
having expired.

This quarry lies within two miles of the Great Western Railway and the Shropshire Union Canal, in the parish of Liantysilio.

The valuable deposit of blue flags has been proved and worked. They are sultable for chimney-pieces, cisterns, pavements, &c; of lasting quality, large dimen
sions, and of various thicknesses.

For particulars, apply to WATKIN RICHARDS, Esq., Bank Buildings, Liangollen,
Liangollen, October 28th, 1875.

THE CAPE COPPER MINING COMPANY
(LIMITED).

Notice is hereby given, that at a MEETING of the Directors of this company, held to-day, it was resolved,—
"That a DIVIDEND of TWENTY SHILLINGS PER SHARE, free of income tax, be and is hereby declared, PAYABLE on the 24th day of December instant to the shareholders on the books of the company on the 17th instant; and that the Transfer-books be closed during the said 17th instant."

By order of the Board,

6, Queen-street-place, London, 8th December, 1875.

THE MALPASO GOLD WASHING COMPANY (LIAITED).

Notice is hereby given, that the ORDINARY GENERAL MEETING of the Malpaso Gold Washing Company (Limited) will be HELD at the Offices of the Company, No. 1, Winchester House, Old Broad-street, London, E.C., on THURS-DAY, the 16th day of December, 1876, at One o'clock.

The Tranfer-books will be closed from the 9th to the 30th proxime inclusive.

By Order, SYDNEY A. COBBETT, Secretary,

1, Winchester House, Old Broad-street, London, E.C., 30th November, 1875.

THE RICA GOLD WASHING COMPANY THE RICA GOLD WASHING COMPANY (LIMITED).

Notice is hereby given, that the ORDINARY GENERAL MEETING of the Rica Gold Washing Company (Limited) will be HELD at the Offices of the Company, No. 1, Winchester House, Old Broad-street, London, E.C., on THURSDAY, the leth day of December, 1875, at Two colock.

The Transfer Books will be closed from the 9th to the 30th proximo, inclusive.

By order,

SYDNEY A. COBBETT, Secretary.

1, Winchester House, Old Broad-street, London, E.C., Nov. 30, 1875.

1, Winchester House, Old Broad-street, London, E.O., Nov. 30, 1876.

NATIONAL PROVINCIAL BANK OF ENGLAND,
BISHOPSGATE STREET,
Corner of Threadneedle-street, London, E.C., Dec. 7, 1875.

The Directors of the National Provincial Bank of England hereby give notice that a HALF-YEARLY DIVIDEND, at the rate of EIGHT PER CENT. PER ANNUM, and a HALF-YEARLY BONUS OF SIX PER CENT., will be PAY-ABLE on the Bank's Stock on and after the 10th day of January next, when the Dividend and Bonus Warrants may be obtained at the Bank, No. 112, Bishopsgate-street (corner of Threadneedle-street), or at the different branches.

The Transfer-books will be closed on and after Saturday, the 11th inst., until the Dividend and Bonus become payable.

By order of the Court of Directors,
By order of the Court of Directors,
E. ATKINSON, Joint General W. HOLT, Januagers.

FOR SALE, a splendid 40-ft. WATER WHEEL, 4 ft. breast, with double-geared DRAWING MACHINE, balance bob and connection, ill complete.
For particulars address, Messrs. J. TAYLOR and Co., 88, London Wall, E.C.

LOCOMOTIVE TANK ENGINES.

5. LEWIN, POOLE, DORSET.

CONSIDERATIONS IN FAVOUR OF FORMING AN ASSOCIATION for the purpose of PURCHASING AND WORKING

ASSOCIATION for the purpose of PURCHASIN MINES in CALIFORNIA and NEVADA.
The Undersigned represents the Owners of—
GRAVEL CLAIMS.
QUARTZ MINES OF SILVER.
QUARTZ MINES OF SILVER.
All being more or less desclored.

All being more or less developed.

The owners not having sufficient means to continue the working, seek the copperation of capitalists, who would employ their own staff, advancing cash to pay for machinery and working expenses, only returning to the vendors such a share of the profits as may be agreed upon. An undoubted title shall be given to those advancing the funds.

For further particulars apply by letter addressed to—

WM. MAC CANN, 42, CHAPEL WALKS, LIVERPOOL; or 42, GREAT RUSSELL STREET,

THE SUNNYSIDE LEAD MINING COMPANY

(LIMITED), SITUATED IN THE COUNTY OF DURHAM Incorporated under the Company's Acts, 1862 and 1867. Capital £32,000, in 16,000 Shares of £2 each, fully paid-up.

DIRECTORS. CHARLES LAWLESS, Esq. (Lawless and Co.), 85, Gracechurch-

street, E.C., Merchant.

JAMES PARKE HOLMES, Esq., 5, Jeffrey's Square, St. Mary Axe, E.C., Merchant.
WILLIAM THOMAS HUXLEY, Esq., 85, Gracechurch-street

E.C., Merchant. DR. HOLMAN SUCKLING, LL.D., 15, St. Helen's-place, E.C. BANKERS-THE CITY BANK, Threadneedle-street, E.C.

SECRETARY-Mr. GEORGE SEARLE CAUNTER TEMPORARY OFFICES,-19, CHANGE ALLEY, CORNHILL, E.C.

Prospectuses, with full particulars, can be had on application NOTICE.

THE YSPYTTY LEAD MINING COMPANY

(LIMITED).

Capital £5000, in 2000 Shares of £2 10s. per share. Deposit 10s. per share on application, and 10s. on allotment. Calls to be made as required, at intervals of not less than three months. FIRST ISSUE OF SHARES TO BE 1200.

Application for Prospectuses and Shares to be made to the Secretary, Mr. Absalom Francis, M.E., Goginan, Aberystwith.

THE STANDARD LUBRICATING OILS COMPANY (LIMITED),

95, CANNON STREET, E.C.

The SPECIALITY of the COMPANY'S OILS consists in their CHEAPNESS and FREEDOM from GLUTINATION.

AGENTS WANTED.

B. & S. MASSEY, OPENSHAW, MANCHES

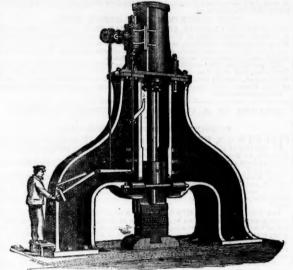
PRIZE MEDALS Awarded:—Paris, 1867; Havre, 1868; Highland Society, 1870; Liverpool, 1871; Moscow, 1872; Vienna, 1873; Scientific Industry Society, 1875.

l'atentees and Makers of Double and Single-acting STEAM HAMMER S of all sizes, from ½ cwt. to 20 tons, with self-acting or hand motions, in either case giving a periettly DEAD BLOW, while the former may be worked by hand when desired. Large Hammers, with Improved Framing, in Cast or Wrought Iron. Small Hammers, working up to 500 blows per minute, in some cases weing worked by the Foot of the Smith, and not requiring any separate Driver.





General Smithy Hammer.



From 60 to 100 Steam Hammers and Steam Stamps may usually be seen in construction at the Works.

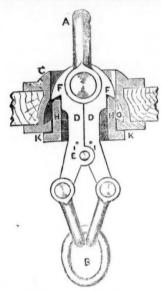


SPECIAL STEAM STAMPS, for Forging, Stamping,

OVERWIDING IMPOSSIBLE.

WALKER'S DETACHING HOOK,

FOR COLLIERIES AND BLAST-FURNACE HOISTS.



SIX LIVES SAVED.

Walker's Hook, at Tockett's sinking, has saved six men's lives On the 6th instant, the kibble was overwound, and but for the hook would have fallen down the pit, where six men were working, 120 ft. below, all of whom would probably have been killed. Thanks, however, to Mr. Walker's invention, the rope alone passed harmlessly over, the kibble remained suspended, and in half-an-hour everything was working as if nothing had occurred.—From the Northern Eche August 20, 1874.

Full particulars may be obtained from the Manufacturers,—

THOMAS WALKER AND SON, 58, OXFORD STREET, BIRMINGHAM,

RAILWAY CARRIAGE COMPANY (LIMITED).—

ESTABLISHED 1847.

OLDBURY WORKS, NEAR BIRMINGHAM.

MANUFACTURERS of RAILWAY CARRIAGES and WAGONS, and EVERY

DESCRIPTION of IRONWORK.

Passenger carriages and wagons built, either for cash or for payment,

over a period of years.

PALLWAY WAGONS FOR HIPE

RAILWAY WAGONS FOR HIRE. CHIEF OFFICES,—OLDBURY WORKS, NEAR BIRMINGHAM. LONDON OFFICES,—7, GREAT WINCHESTER STREET BUILDINGS.

THE BIRMINGHAM WAGON COMPANY (LIMITED)

MANUFACTURE RAILWAY WAGONS of EVERY DESCRIPTION, for
HIRE and SALE, by immediate or deferred payments. They have also wagons
for hire capable of carrying 6, 8, and 10 tons, part of which are constructed spec
ally for shipping purposes. Wagons in working order maintained by contract.

EDMUND FOWLER, Sec.

WAGON WORKS,—SMETHWICK, BIRMINGHAM.

*.** Loans received on Debenture; particulars on application

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To all users of steam-power and others requiring machinery of any description this list will be found most useful, and for constant reference an invaluable guide to engineers, shippers, and public companies.

Specifications, plans, and estimates supplied for all kinds of machinery, tools, and materials.

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J. T. RODDA AND CO., ENGINEERS,

and Machinery Come nts and entries received up to the 25th of each month.

Contractors, Iron, Steel, Hardware, and Machinery Commission Agents, 122, CANNON STREET, LONDON, E.C.

Now ready, price 3s., by post 3s. 3d., Sixth Edition; Twentieth Thousand Copies much improved, and enlarged to nearly 300 pages.

HOPTON'S CONVERSATIONS ON MINES, between Father and Son. The additions to the work are near 80 pages of useful information, principally questions and answers, with a view to assist applicants intending to pass an examination as mine managers, together with tables, rules of measure ment, and other information on the moving and propelling power of vestilation, subject which has caused so much controversy.

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The following few testimonials, out of manufactures are speak to the value of the work:—
"The book cannot fall to be well received by all connected with collieries."—
Mining Journal.
"Its contents are really valuable to the miners of this country."—Miners Con-

ference.

"Buch a work, well understood by miners, would do more to prevent collier accidents than an army of inspectors."—Colliery Guardian. ndon: MINING JOURNAL Office, 26, Fleet-street; and to be had of al book

High-Pressure High-Speed Engines. THE BEST AND CHEAPEST SMALL ENGINES MADE.

BOURNE'S : PATENT BALANCED

These engines have just been awarded a Silver Medal at the Manchester Exhibition, and about 1800 H.P. of them have been sold in a few months to North and South America, New Zealand, Australia, the Cape, Russia, Spain, Portugal, France, Germany, Sweden, China, &c. £. s. 3 15 4 0 4 10 5 0 5 12 5 18 6 5 6 5 0000896396 430 480 505 540 575 602 620 637 645 Packing 7½ per cent. extra.

From ANDREW LAMB, Esq., Superintending Engineer, P. and O. Steam Co.

Peninsular and Oriental Steam Navigation Company, Southampton, March, 1875.

Peninsular and Oriental Steam Navigation Company, Southampton, March, 1875.

I have carefully examined your Patented High-Pressure High-Speed Steam-Engine. Knowing as I do how many improvements in the steam-engine you have inaugurated during the last forty years, which have been silently adopted and are now in general use, it does not suprise me that you have again made a happy hit, and brought out an engine which exactly meets one of the most pressting wants of the day. The speed and pressure of your engine are greater than is usual in other engines; but with a due proportion iof rubbing surface, nothing in the way of undue wear is to be apprehended from the speed, and boilers and engines can easily be made strong enough to bear almost any pressure with safety. The indicator diagrams are very good, and they show that though the engine is small it generates the power. Your invention of balancing the momentum of the moving parts, already adopted in the best engines for steam navigation, enables engines to be run at almost any speed without inconvenience, if well constructed in other respects; and in your present engine you have embodied the best engineering knowledge of the age, with the addition of several features of originality and importance. While, then, the disadvantages of your engine are nil, its advantages are great and manifest. A high pressure and high speed render possible large expansion, with a great saving both in coal and water. Then the motion is more equable than in common engines, and the weight of machinery and the space occupied by it are small. The most remarkable feature, however, is the wonderful reduction of first cost which your system permits; and people will now have engines who before thought them quite beyond their reach. Their production, as I understand, you have reduced to a manufacture. To sum up the whole in a few words, you have, in my opinion, brought out a machine long wanted, and likely to produce a revolution in that class of engine, as it can be adapted for almost any pur

Balanced Compounds for Pumping and Winding, for Mills, &c., equally moderate.

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Sole Makers of Stephens's Improved Patent Pulveriser. FOR REDUCING TIN ROUGHS, LEAD SKIMPINGS, AND OTHER ORES.

The advantages possessed by these machines over others are-

1.—THE CHEAPNESS,
2.—THE SIMPLICITY OF CONSTRUCTION,
3.—THE DURABILITY OF THE WEARING PARTS,
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For prices, testimonials, and further particulars, apply to N. H. and Sons, Sole Makers, at the above address, or to our London

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N.B.—Any person or persons infringing on the patent or manufacture of these machines, or any part thereof, will be prosecuted under the Act. Estimates given for all classes of Mining Machinery, &c., for home and foreign supply.

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NOBEL'S DYNAMITE

blasting in hard or soft, wet or dry ROCKS; for clearing land of TREE ROOTS and BOULDER STONES; for rending massive BLOCKS of METAL; for SUBAQUEOUS and TORPEDO purposes; and for recovering or clearing away of WRECKS, &c.

ITS SAFETY is evidenced by the total ABSENCE OF ACCIDENTS in transit and storage; it is insensible to heavy shocks, its GIANT POWER being only fully developed when fired with a powerful percussion detonator, and hence its great safety.

As a SUBSTITUTE FOR GUNPOWDER its advantages are the GREAT SAVING OF LABOUR, rapidity and INCREASE OF WORK done, FEWER and smaller BORE-HOLES required, greater depth blasted, safety in use NO DANGER FROM TAMPING, absence of smoke, unaffected by damp, &c.

For information, apply to the-

BRITISH DYNAMITE COMPANY (LIMITED), GLASGOW;

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London Export Office, 85, GRACECHURCH STREET, LONDON, E.C.

ROCKDARLINGTON THE BORER.

No VALVE—BLOW obtained by the movement of the PISTON. IN USE IN FRANCE, GERMANY, SPAIN, AND ELSEWHERE.

Rock Borers, Air Compressors, and Electric Blasting Apparatus. Sole Agents and Manufacturers for France.—The Blanzy Mining Company,

WHERE BORERS MAY BE SEEN IN OPERATION.

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MINING MACHINERY AND TOOLS. THE TUCKINGMILL FOUNDRY COMPANY.

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MANUFACTURERS of every description of MINING MACHINERY, TOOLS, MILLWORK, PUMPING, WINDING, & STAMPING ENGINES. SOLE MAKERS OF

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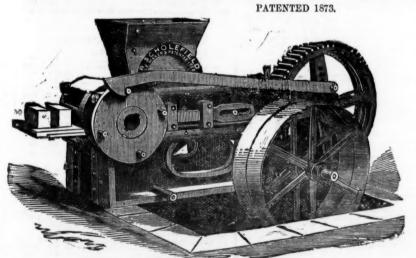
Stitable for QUARRYING and OPEN CUTTING, SINKING SHAFTS, SUBMARINE BLASTING, TUNNELLING, DRIVING ADITS, &c., is the most simple and economical Drill now in use. Has no spring and pawl, or ratchet-gear to get out of order.

Numerous "Cranston" Drills have been supplied into the Hematite Iron and Lead Mining Districts of Cumberland. This Drill is also in extensive use in Sweden, Belgium. India, and various other places.

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all Colliery Owners in particular to his PATENT SEMI-DRY BRICK MACHINE, and the economical method of making bricks by his patent machinery from the refuse that is taken from the pits during the process of coal-getting, which, instead of storing at the pit's mouth (and making acres of valuable land useless), is at once made into bricks, at a very small cost, by R. S.'s Patent Brick-making Machinery. If the material is got from the pit hill, the following is about the cost of

R.S. begs to call the attention of

production, and the hands required to make 10,000 pressed bricks per day:-

0

2 men digging, each 4s. per day...

1 man grinding, 4s. 6d. per day...

1 boy taking off bricks from machine, and placing them in barrow ready for the kiln, 2s. per day...

1 boy greasing, 1s. 6d. per day...

1 engine-man, 5s. per day...

1 man wheeling bricks from machine to kiln, 4s. per day...

Total cost of making 10,000 pressed bricks

(SETTING AND BURNING SAME PRICE AS HAND-MADE BRICKS.)

N.B.—Where the material can be used as it comes from the pit, the cost will be reduced in digging.
As the above Machinery is particularly adapted for the using up of shale, bind, &c., it will be to the advantage of all Colliery Owners to adopt the use of the said Brick-making Machinery.

THE MACHINES CAN BE SEEN IN OPERATION AT THE WORKS OF THE SOLE MAKER AND PATENTEE DAILY. SCHOLEFIELD'S ENGINEERING & PATENT BRICK MACHINE WORKS. KIRKSTAL ROAD, LEEDS.

BICKFORD'S PATENT



Obtained the PRIZE MEDALS at the "ROYAL EXHIBITION" of 1851; at he "INTERNATIONAL EXHIBITION" of 1862 and 1874, in London; at the "IMPERIAL EXPOSITION," held in Paris, in 1855; at the "INTERNATIONAL EXHIBITION," in Dublin, 1865; at the "UNIVERSAL EXPOSITION," in Paris, 1867; at the "GREAT INDUSTRIAL EXHIBITION," at Altona, in 1859; TWO MEDALS at the "UNIVERSAL EXHIBITION," vianna, in 1873; and at the "EXPOSICION NACIONAL ARGENTINA," Cordova, South America, 1872.



BICK FORD, SMITH AND CO. of TUCKINGMILL, CORNWALL; ADELPHI BANK CHAMBERS, SOUTH JOHN-STREET, LIVER-POOL; AND 55, GRACECHURCH-STREET, LONDON, E.C., MANUFACTURERS AND ORIGINAL

E.C., MANUFACTURERS AND ORIGINAL PATENTEES of SAFETY-FUSE, having been informed that the name of their firm has been attached to fuse not of their manufacture, beg to call the attention of the trade and public to the following announcement:

EVERY COIL of FUSE MANUFACTURED by them has TWO BEFARATE THREADS PASSING THROUGH the COLUMN of GUNPOWDER, and BIOKFORD, SMITH, AND CO. CLAIM SUCH TWO SEPARATE THREADS as THEIR TRADE MARK.

BENNETTS' SAFETY FUSE WORKS, ROSKEAR, CAMBORNE, CORNWALL.

BLASTING FUSE FOR MINING AND ENGINEERING PURPOSES,

Suitable for wet or dry ground, and effective in Tropical or Poler Climates.

W. BENNETTS, having had many years experience as chief engineer with Messrs. Bickford, Smith, and Co., is now enabled to offer Fuse of every variety of his own manufacture, of best quality, and at moderate prices. Price Lists and Sample Cards may be had on application at the above address. LONDON OFFICE.—H. HUGHES, Esq., 85, GRACECHURCH STREET.

English tin, and how to compete successfully with australia.

USE DYNAMITE.

Invaluable for BLASTING the HARDEST and WETTEET ROCK; SAFER to USE; and EFFECTS a GREAT SAVING of time and money.

Pamphlets free by post. An experienced man sent underground to give instructions when necessary, free of charge.

Apply,— STEPHEN WILLIAMS, CAMBORNE.

THOMAS TURTON AND SONS,



MANUFACTURERS OF CAST STEEL for PUNCHES, TAPS, and DIES TURNING TOOLS, CHISELS, &c.
CAST STEEL PISTON RODS, CRANK PINS, CON NECTING RODS, STRAIGHT and ORANK AXLES, SHAFTS and

FORGINGS of EVERY DESCRIPTION. DOUBLESHEARSTEEL FILE MARKED BLISTER STEEL, SPRING STEEL, GERMAN STEEL, WM. GREAVES & SON Locomotive Engine, Railway Carriage and Wagen Springs and Buffers.

SHEAF WORKS AND SPRING WORKS, SHEFFIELD. LONDON WAREHOUSE, 35, QUEEN STREET, CANNON STREET, CITY, E.C. Where the largest stock of steel, files, tools, &c., may be selected from.

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