Scientific American.

TO CORRESPONDENTS.

R. F. H., of Ky.-Electricity passes through the wires of the telegraph, in a current. Their surfaces are covered with a non-conducting substance.

E. H., of Conn.-We do not know how to cover copper with iron.

in casks; but it can be made in any factory on a small scale with a proper apparatus. There is a very useful work on the subject by Parnell; it will give you the necessary information.

Y, W. H., of Cincinnati.—Your plan is patentable, but you must judge for yourself whether it will be prof itable: we cannot tell.

E. S., of La.—It would not do any harm to have the gauge surrounded with another tube, but we do not see its necessity. The regularity of the gauge is an evidence of its correctness. The steam is applied from below in some gauges for high pressure boilers, by acting upon air to compress it, and thus act upon the mercury. The gauge acts by pressure.

L. S., of Pa.-You had better write to the parties who advertise, about the price of the engine and boilers .-Your work requires considerable power, that you must look to the quantity as well as anything else. The more work you wish done in a given time, the greateris the power required. We prefer the upright saw for your hard work; and were it for ourselves, we would have a 20 horse power engine.

P. W., of Conn.-We believe what you sayabouthaving suggested the making of bills of different sizes of paper, but we said as much on the subject as we prudently can for the present.

J. P., of Boston.—The flat paddle is the best; of this there can be no doubt.

J B., of Texas.-Window blinds have been operated in the manner stated in your letter, and the same device could be very easily applied to a door. We do not think it patentable.

W. S., Jr., of N. Y.-It is no consequence whether you hold the letters patent of the inventors, so long as you are the exclusive assignee—you can obtain dupli-cates at the office if you so desire, at the usual price of

Money received on account of Patent Office business for the Week ending Saturday, April 29 :-

G. W. & Co.N. Y., \$55; J. G., Senr., of Ind., \$20; J.D. B., of Ohio, \$25; C. D., of Ohio, \$30; B. F., of Ind., \$10; J. F., of N. Y. \$30: N. W., of Conn., \$30; J. U., of O., \$25: G. B. S., of N. Y., \$10; C. W. D., of N. J., \$30; R. W. G., of N. Y., \$55; F. & W., of N. Y., \$20; J. S., of Mass., \$25: J. S. W., of Iowa, \$30; L. F. H., of Vt.. \$30; H. M., of N.Y., \$300; McP. & B., of Mass., \$55; C. A., of

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, April 29:-

Mc. P. & B., of Mass.; A. H. C., of N. Y., (2 cases); J. D. B., of Ohio: C. A., of N. J.; J. U., of C.; J. S., of Mass.; G. F. W., of Pa.: S. & B., of Ct : J. G., Senr., of

ADVERTISEMENTS.

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All advertisements must be paid for before insert

American and Foreign Patent Agency.

MPORTANT TO INVENTORS.—The undersigned having for several years been extensively engaged in procuring Letters Patent for new mechanical and chemical inventions, offer their services to inventors upon the most reasonable terms. All business: entrusted to their charge is strictly confidential. Private consultations are held with inventors at their office from 9 A. M., until 4 P. M. Inventors, however, need not incur the expense of attending in person, as the preliminaries can all be arranged by letter. Models can be sent with safety by express, or any other convenient medium. They should not be over 1 foot square in size, if possible.

Having Agents located in the chief cities of Europe, our faculities for obtaining Foreign Patents are unequalled. This branch of our business receives the especial attention of one of the members of the firm, who is prepared to advise with inventors and manufacturers at all times, relating to Foreign Satents.

MUNN & CO., Scienting American Office,

MECHANICAL ENGINEER—offe s his services as Engineer and Draughtsman in a Foundry and Machine Shop, references will be given; inquire at this this Office.

POR SALE—By the Baltimore and Ohio Railroad Co., 24 Crate Cars, adapted to railroad purposes, which will be sold at a reasonable price. For further information apply to SAMUELJ. HAYES, M. of M., Baltimore and Ohio R. R. Co., or BRIDGES & BRO., 35 Fulton st., New York.

RIFFITHS PATENT VALVE COCKS for Steam They are warranted superior to any valve or cock in use. They are easily repaired without taking them from the pipes, they are made any size from 3-8 in. up to 71-2 in, either screwed or with flanges. Responsible agents for the sale of these valves wanted in New York. Boston, Pittsburg, and all the principal cities in the Union. The rights to manufacture in the different States for sale. Parties interested will address J. GRIF-FITHS, City Tube Weyks and Brass Foundry, 15 North 7th street, Philadelphia.

S.W. corner of Green and Margan streets, Jersey Oity, N. J. The subscribers are prepared to contract for Sugar Mills and Mining Machinery of every description. Horizontal Steam Engines of various sizes constantly on hand. All orders executed with promptness-34 10°

PR. LITTLE 8 AUTOMATIC LIGHTNING PRESS will be publicly shown in New York shortly. The cylinders of this press can be made to feed itself at the rate of 100.000 sheets each per hour.

811

TAVE AND BARREL MACHINERY—HUTCH INSON'S PATENT.—This machinery, which received the highest award at the Grystal Palace, may be seen there in operation during the ensuing season. Outling, Jointing and Crozing Staves and Turning Heads. Staves prepared by this process are worth to the cooper from 20 to 40 per cent more than when finished in another way. Applicable alike to thick and thin staves. Apply to C. B. HUTCHINSON & CO., Auburn, N. Y., or at the Crystal Palace.

RUPP'S BEST CAST STEEL—Suitable for Mint and Plater's Rollers, also of large size (72x18 inches diam) for rolling iron, copper or brass. Pistons of Steam Engines, and Sharts for Steamboats, not exceedings ix tuns weight in one piece. Also the celebrated Cast Steel Axles and Tire, made from a solid bar without welding. Agents, THOS. PROSSER & SON, 33tf

ENGINEERING—The undersigned is prepared to furnish plans for ever description of machinery, water wheels, turbines, and to consult with parties to make experiments and scientific investigations, and to superintend the construction of works. Agent for Mellier's Patent for making White Paper from Straw.

23 20* Consulting Engineer, 74 Broadway, N.Y.

TO YOUNG MEN.—Pleasant and Profitable Employment.—Young Men in every neighborhood may obtain healthful, pleasant, and profitable employment, by engaging in the sale of useful and popular Books, and canvassing for our valuable Journals. For terms and particulars, address, post-paid, FOWLERS AND WELLS, No. 308 Broadway, New York.

P. S.—All Agents who engage with us will be secured from the possibility of loss, while the profits derived will be very liberal.

GRICULTURAL MACHINERY.—PARTNER AWANTED—The advertiser wishes to join with one or more business men practically acquainted with the necessary branches, to establish a manufactory of agricultural machinery in the West. It would be necessary that each partner should furnish his proportion of capital. Address A, U. C., Blood's Despatch, Philadelphia, Pa.

SEWING MACHINE—The Office and Warerooms of the Wheeler & Wilson Manufacturing Company, for the sale of their Sewing Machines, is removed to No. 343 Broadway, where the public are invited to call and examine them in practical operation.

THE CRESCENT FOUNDRY & MACHINE CO.
Bridgeport, Conn... make to order Stationary Steam THE CRESCENT FOUNDRY & MACHINE CO.

Bridgeport, Conn., make to order Stationary Steam
Engines from 8 to 150 horse power, large deable acting
Force Pumpe for water works, Iron Planers, Engine
Lathes built in the most substantial manner and uncomMONLY HEAVY. Machinery in general and all kinds of
Steam Boliers. Ha ing a large and extensive stock of
mill gearing and other patterns, the accumulation of 18
years, they are prepared to furnish castings at short notice. Any work ordered from this Company will be
guaranteed equal to any made in this country. They
would call attention to a large lathe which they build,
designed for Railroad Machine shops for turning ofdrivers. They also make a very large and heavy lathe
with screw feed, designed for Machine Shops in general.
They are now making a vertical Engine of new design
from 5 to 16 horse power, which will require but the small
space of 4 feetsquaref the bed being 3 4 by 38 inches) and
with a vertical boiler will require only 4 feet by 8 feet.

16 12 lam*

CLACK'S FOR CHURCHES, COURT HOUSES, &c...Regulators for Astronomical purposes, Jewellers; also Time Pieces for Session Rooms, Railroad Stations, Offices, &c., which for socuracy of time and durability have proved ('tis believed) equal to any made in Europe or this country. Glass Dials for illumination, and other kinds furnished. Address SHERRY & BYRAM, Oakland Works, Sag Harbor, N. Y. 10eowtf

HINGLE MACHINES—Wood's patented improvement in Shingle Machines, is unquestionably the
best ever offered to the public. The undersigned is now
at the West, offering rights in this machine for sale. It
is a rare opportunity for a safe and profitable investment in a machine without a rival, for the purpose to
which it is applied. Parties wishing to correspond with
meean do so by addressing
J. D. JOHNSON,
2ltf
Bridgeport, Ct.

MATHEMATICAL AND OFTICAL INSTRUmotice of the professional community his new and extensive assortment of the above Instruents, which he
partly imported direct from the most celebrated makers
in Europe, and partly had manufactured under his own
personal supervision. The undersigned would particularly invite attention to his very large and complete
assortment of the justly celebrated Swiss Mathematical
Drawing instrumen se, for the sale of which, in this couniry, he has the sole agency, and which he can furnish at
from \$5 to \$200 per case. Those Drawing Instruments
received the eprize medal at the London and New York
Exhibitions. Orders fron any part of the Union promptly executed, and price list sent if required.

21 Seow*
224 Chestnut st. Philadelbbia. Pa.

C. T. AMSLER, 224 Chestnut st, Philadelphia, Pa.

ACHINERY.—S. C. HILLS, No. 12 Plattst. N. Y. dealer in Steam Engines, Boilers, Iron Planers Lathes, Universal Chucks, Drills; Kase's, Von Schmidt's and other Pumps; Johnson's Shingle Machines; Woodworth's, Daniel's, and Law's Planing Machines; Dick's Presses, Punches, and Shears; Morticing and Tennoning Machines; Belting; Machinery Oil, Beal's Patent Cob and Corn Mills; Burr Mill and Grindstones; Lead and Iron Pipe, &c. Letters, to be noticed, must be post-paid. 27tfeow

PASSAIC WORKS—Passaic street, Newark, N.J.—
Manufacture and have on hand, Steam Engines of
the most approved construction and various sizes. Also
Machinists Tools of all kinds: Lathes, Planing Machines, Drills, &c., machine for Enameling Carriage
Cloth, and Machinery of every description. Jobbing
Work promptly attended to. Address GEO. WALTS,
Passaic Works, Newark, N. J.

22 4ecw*

ECHANIC'S FAIR.—In Portland, Me., September, 1854. The Maine Charitable Mechanics Association will hold a Fair and Exhibition for Premiums, in Portland, Maine, commencing on the 19th day of September next, and invite contributions from every industrial profession. Choice specimens of ingenuity and dustrial profession. Choloe specimens of ingenuity and skill—unique and valuable domestic productions, natural and artificial—the delicate and beautiful handiwork of females—labor saving machines, implements of husbandry, new models of machinery and, indeed, articles from every department of manufacture, which it would be impracticable to particularize in this advertisement, Medals and Diplomas will be awarded to owners or manufacturers of articles deemed worthy of that distinction. Steam Power will be provided, to show any model or machinery in operation to the best advantage. Further information is communicated in the Circular issued bythe Association, which may be obtained at this office, or by addressing J. R. MILLIKEN.

30 Seow*

Cor. Secretary.

WOODWORTH'S PATENT PLAN Moulding machine. Ninety-nine hundredths of all the planed lumber used in our large cities and towns continues to be dressed with Woodworth's Patent Machines. Price from \$150 to \$900. Two machines are at the Crystal Palace. For rights in all parts of New York and Northern Pennsylvania, app y to JOHN GIBSON. Planing Mills, Albany, N. Y.

TRON FOUNDERS' MATERIALS, viz: Pulverlsed Sea Coal, Black Lead, Seapstone, Anthracite and Charcoal Facings. Also, best imported Fire Bricks, Fire Clay, Fire Sand, and Moulding Sand, for sale by house and Seed Store, 189 and 191 Water street, R. L. ALLEN.

15 Water street, corner of Pine.

UNITED STATES PATENT OFFICE. Washington, April 15, 1854.

N'THE PTITION of Fones McCarthy, of Putnam County, Florida, praying for the extension of a patent granted to him on the 3rd of July, 1840, for an improvement in the Cotton Gin, for seven years from the expiration of said patent, which takes place on the 3rd day of July, 1854.

panell granted to nim on the ord of July, 1840, for an improvemeet in the Cotton Gin, for seven years from the expiration of said patent, which takesplace on the 3rd day of July, 1854.

It is ordered that the said petition be heard at the Patent Office on Monday, the 26th of June next, at 120 clock, M.; and all persons are notified to appear and show cause, if any they have, why said petition ought not to be granted.

Persons opposing the extension are required to file in the Patent Office their objections, specially set forth in writing, at least twenty days before the day of hearing. All testimony filed by either party, to be used at the said hearing, must be taken and transmitted in accordance with the rules of the office, which will be furnished on application.

The testimony in the case will be closed on the 16th of June; depositions and other papers relied upon as testimony, must be filed in the office on or before the morning of that day; the argument, if any, within ten days therea ter.

Therea, also, that this notice be published in the Union, Intelligencer, and Evening Star, Washington, D. C.; Pennsylvanian, Philadelphia, Pa.; Scientific American, New York; Daily Courier, Buffalo, N. Y.; Floridian and Journal, Tallshassee, Fla., once a week for three successive weeks previous to the 26th day of June next, the day of hearing.

Reting Commissioner of Patents.

P. S—Editors of the above papers will please copy, and send their bills to the Patent Office, with a paper containing this notice.

United States Patent Office.

Washington, April 17, 1854
On THE PETITION of Simon Fairman, of Stafford, Connecticut, praying for the extension of a patent granted to him on the 18th day of July, 1840, foran improvement in "the expanding and contracting, or universal chuck for lathes," for seven years from the expiration of said patent, which takes place on the 18th day of July, eighteen hundred and fifty-four, (1859—It is ordered that the said petition be heard at the Patent Office on Monday, the 25th of June next, at 12 o'clock. M.; and all persons are notified to appear and show cause, if any they have, why said petition oughtnot be granted.

Persons opposing the extension are required to file in the Patent Office their objections, specially set forth in writing, at least twenty days before the day of hearing; all testimony filed by either party to be used at the said hearing must be taken and transmitted in accordance with the rules of the office, which will be furnished on application.

The testimony in the case will be closed on the 15th

with the rules of the office, which will be closed on the 15th of June: depositions, and other papers relied upon as testimony, must be filed in the office on or before the morning of that day; the arguments, if any, within ten days thereafter.

Ordered, also, that this notice be published in the Union, Intelligencer, and Evening Star, Washington, D. C.; Evening Argus, Philadelphia, Pa.; Scientific American, New York; Daily Courier, Buffalo, N. Y., and Post, Boston, Massachusetts once a week for three successive weeks previous to the 25th day of June next, the day of hearing.

Acting Commissioner of Patents.

essive weeks previous to the zonn day of date the day of hearing.

8. T. SHUGERT,

Acting Commissioner of Patenta.

P.S.—Editors of the above papers will please copy and their bills to the Patent Office, with a paper con taining this notice.

HARRISON'S PATENT MILLS—Received the highest premium at the World's Fair; 250 have been sold in two years. The stones are French burr; the frames and hoppers cast-iron the spindles solid cast steel. They will work better for flouring, and on all kinds of grain and dry substances, and keep in repair longer than any other mill in the world. I have completed my new steam mills for manufacturing and running them, and sm now prepared to supply orders for all the sizes, from 20 inches to 4 feet diameter, including also a superior farm and Plantation Mills at a fair price. Agents wanted to sell them in all parts of the country. Descriptive circulars, with cute, mailed to all post-paid applications. EDWARD HARKISON, Sole manufacturer and proprietor of the patent. Sole manufacturer and proprietor of the patent New Haven, Conn.

-MICHIGAN CENTRAL R. LINE,
D. W. WHITING, Freight Agent for
Railroad and the enormous new steamers "Plymouth
Rock," "Western World," and "May Flower,"—and
also General Forwarder, will forward freight of any
kind, by any mode of conveyance, to any dest nation,
with dispatch and at the lowest rates; has trucks
and machinery and (having been a pr ctical machinist has all the skill necessary) for the safe and expeditious handling of any machine or heavy article, such as
Locomotives, Steam Engines and Boilers, Engine Lathes,
Church Bells, Safes, &c. Mark packages care "D. W.
Whiting, Buffalo;" goods thus consigned take precedence with the above boats in all cases.

REWARD—To the Manufacturers of Bank Note Paper. The Executive Committee of the Association of Banks for the Suppression of Counterfeiting, hereby offer a reward of One Hundred Dollars for the best specimen, in the opinion of the Committee, of Bank Note Paper, of not less than five hundred sheets, which may be submitted to them on or before the list day of January next. All paper submitted, except that selected by the Committee, to be returned to the persons submitting the same.

J. M. GORDON, Secretary.

Boston, Mass., March 31, 1534.

chine with entire change of Gear. The only successful grass cutter now known; warranted capable of cutting and spreading from ten to fifteen acres of any kind of grass, per day, in as good a manner as is done with a scythe. Orders filled at our establishment in Buffalo, N.Y., or at J., MAYHER & CO., 8, and R.L. ALLEN'S, Water street, N. Y. HOWARD & CO., 318

MODELS—Of all kinds made and warranted to an swer the requisitions of the Patent Office. Post raid communications strictly confidential. Address J. G. ARNOLD, Worcester, Mass.

DOBERTSON'S-Recently patented Keyed Stop and strached to old or new violing at the manufactory, let Broadway, N. Y.

PORTABLE FORGES AND BELLOWS—(Queen's patent). The best forge in market for Blacksmiths work, Boiler Makers, Mining, Quarrying, Shipping, plantations, Contractors on Railroads and Public Works, Coppersuits, Gas Fitters, &c., Also an improved Portable Melting Furnace for Jewellers, Dentists, Chemists, &c., both of which are constructed with sliding doors to protect the fire from wind and rain when used outdoors, and for perfects afety and free escape of smoke when used indoors. They are compact for Shipping. Circulars with particlars and prices will be forwarded upon application. Cast from Columns, for building constantly on hand. Jobbing, Piano, and all kind of work promply oxecuted. FREDERICK P. FLAGLER, 29 10° Sole Manufacturer, 210 Water street, N. I.

MINING MACHINERY—Of most approved construction, furnished by FRED'K COOK & CO, Hud son Machine Works, Hudson, N. Y.

"TAVE MACHINERY.—The "Mowry Stave Cutter and Jointer Combined," which received the highest award at the Crystal Palace, is the only machine that ever undertook to joint a stave properly at the same time that it was cut and dressed, without rehandling. One man tends the machine and turns out from a solid block of wood ninety staves a minute, ready for the truss hoop, it is not only the best in use, but for slack work we challenge the world. For machines and rights in New York, apply to CHARLES MOWRY, Auburn, For machines and rights in other parts of the United States, apply to GWYNNES & SHEFFIELD, Urbana, Ohio.

29 tf

Parshey haven Manufacturing company
—New Haven. Conn., (successors to Scranton &
Parshley) have on hand Power Planers, to plane from 3
to 12 feet; side lathes from 6 to 18 feet long; 3 sizes of
hand lathes, with and without shears; and counter
shafts: universal chucks; drill presses, index plates,
bolt cutters, and slide rests. The N. H. M. Company
also have the right for Harrison's patent Flour and
Grist Mill for the term of five years, and are prepared
to furnish these superior mills at short notice. They are
unequalled by any other mill, and will grind from 20 to
30 bushels per hour, and will run without heating, beling self-cooling. They weigh about 1400 lbs., are of the
best French burr stone, 30 inches in diameter; are
snugly packed in a cast-iron frame, price of mill \$200,
packing \$5. For cuts, prices, and further particulars
apply post-paid, as above, or to S. C. HILLE, agent N.
H. M. Co., 12 Platt st., N. Y.

DORTABLE STEAM ENGINES—GEORGE VAIL
& CO., Speedwell Iron Works, Morristown, N. J.,
LOGAN VAIL & CO., No. 9 Gold st., N. Y., are prepared
to furnish Portable Steam Engines from four to eight
horse power, with locomotive boilers. These engines
are recommended for their simplicity durability, and
economy, being made from the best materials and designed for practical use. They are placedon wheels convenient to be moved from place to place, and are shipped in working order: for plantation use, machinists, or
others wanting small power, these engines will be found
superior to any others in use. A Silver Medal was
awarded at the late Fair of the American Institute, and
a premium in cash of \$100 at the Maryland State Pair,
held at Baltimore in October last. Persons writing us
by mail will be particular to give their address in full.

2132

JOHN PARSHLEY, No. 5 and 7 Howard st., New Haven, Ct., manufacturer of Machinists' Tools, and Steam Engines, has now finishing off 25 Engine Lathes, 6 feetshears, 4 feet between centers, 15 inches swing, and weighs about 1100 lbs. These Lathes have back and screw gear, ijb rest, with screw feed, and the rest is so arranged that the tool can be adjusted to any point the work way require, without unfastening the tool, hence they possess all the good qualities of the jib and the weight lathe; they are of the best workman whip. Price of Lathe with count shaft and pulleys, 4156 cash. Cuts, with full description of the lathe, can be had by addressing as above, post-paid. Also four 30 horse power vertical 8 cam Engines with two cylinders. Price of engine with pump and heater, 4800 cash. For particulars address as above.

CREW CUTTING MACHINES, with P. W. Gates' Patent Dies—The subscribers Keep constantly on hand three sizes of the above-named machines, to wit—No. I machine, 10 sets dies and taps from one-half to two inches, \$350: No. 2, 8 sets dies and taps, one-half to one and a halfinches, \$250: No. 3, 6 sets dies and taps, three-eighths to one inch, \$150. Cash on delivery at shop.

Chicago, Ill.

27 18 shop. Chicago, Ill.

HUDSON MACHINE WORKS and Iron Foundry
—at Hudson City, N. Y., are prepared to contract
for castings for railroads, bridges, buildings, gas pipes
and posts, water pipe, cast-iron ornamental floors, cannon, &c. Steam engines and boilers, high and low pressure, sugar mills, Cornish lifting and forcing pumps for
mines; stamps, mortars, and mining machinery;—
also superior hydraulic pumps and presses, and superior machinists' tools made to order. Especial attention given to the making of patent machines. Orders by mail will receive prompt attention. New York
Office No. 18 Exchange Place.

FREDERIC COOK & CO.

77tf

ACHINERY FOR SALE—The following machines are for sale at the "Scientific American".

Office:—Alcott's Concentric Lathe, price \$25.

Portable Mortising Machine, \$20

Bushnell's Iron Drill, \$25

All orders should be addressed (accompanied with the cash) to MUNN & CO., 128 Fulton st., N. Y.

WHITE STRAW PAPER—For Newspapers—VA Mellier, the patentee, having established his process at Nixon & Xeinour's Mills, Manayunk, where the paper for the Philadelphia Ledger has been made daily from straw since the 12th of April, is now ready to sell ilcenses and make arrangements for establishing the process elsewhere. Apply to A. MELLIER & V. BEAUMONT, 74 Broadway, where specimens of half stuff, stuff and paper may be seen.

NGINEERING.—The undersigned is prepared to furnish specifications, estimates plans in general or detail of steam hips, steamboats, prepaiders, high and low pressure engines, boilers and machinery of every description. Broker in steam vessels, machinery, boilers, &c. General Agent for Ashcroft's Steam and Vacuum Gauges, Allen & Noyes' Betailic, Self-adjusting Conical Packing, Faber's Water Gauge, Sewell's Salinometers, Dudgeon's Hydraulic Lifting Press, Roebling's Patent Wire Rope for hoisting and steering purpes cet., etc., CHARLES W. COP, ELAND,

20 tf Consulting Engineer, 64 Broadway.

LANING, TONGUING, AND GROOVING—BEARDSLEE'S PATENT.—Practical operation of these Machines throughout every portion of the United States, in working all kinds of wood, has proved them to be superior to any and all others. The work they produce cannot be equalled by the hand plane. They work from 100 to 200 feet, lineal measure, per minute. One machine has planed over twenty millions of feet during the last two years, another more than twelve millions of feet Spruce flooring in tem months. Working models can be seen at the Crystal Palace, where further information can be obtained, or of the patentee at Albany, N. Y. 27tf GEO. W. BEARDSLEE.

STATIONARY SPEAM ENGINES—The subscriber is now prepared to farnish, with or without pumps, boilers, &c., Horizontal Engines on from bed frames, good strong, substantial plain finished engines that will do good service, say from 4 horse, \$1,50 to 90 horse, \$1,637; they have Judson's patient valves, and will be warranted to work well. 12 Platt st, New York.

B. Kl.Y. Counsellor at Law, 52 Washington stress, a Boston, will give particular attention to Patent Cases. Refers to Messrabluon & Co., Scientific American. 16 ly

ROUGHT IRON DIRECT FROM THE Ore prepared to sell rights for this most valuable invention.

Apply to JAMES RENTON, Cleveland, Ohio, or to A. H.

BROWN, 107 Market st., Newark, N. J.

27 10*

DAKER'S IMPROVED BOILER FURNACE— DAS used at the Crystal Palace; orders received for Blationary Marine or Incompling Furnaces on the Das used at the Crystal Palace: orders received for Bationary, Barine, or Locomotive Furnaces on this plan, and also for the rights for towns, countries, or States: certificates can be shown of furnaces in use for Stationary, marine, and locomotive furnaces, with saving from 30 to 50 per cent. in fuel. J. AMORY, General Agent, 28 State at, Boston, Mass.

CALLISTER & BROTHER.—Opticians and dealers in mathematical and optical instruments, No. 48 Cheanut st. Willadziphia, Pa.—at the old stand established in 1796 by John McAllister, Senr. Mathematical instruments separate and in cases. Tape Measures, Spectacles, Spy Glasses, Microscopes, Thermometers, Sacometers, Hydrometers, Magic Lanterns, &c., &c. Our illustrated and prined catalogue are furnish, ed on application, and will be sent by mail free of charge.

JOHRIS WORKS, Norristown, Pa. The subscribers build and send to any part of the United States, Pumping, Hoisting, Stamping, and Portable Engines, and Mining Machinery of every describion.

41 ly.*