# Scientific American.

#### TO CORRESPONDENTS.

The inquirer at Portland, Me., about information respecting Patents in fereign countries, did not sign his name to his letter, therefore we are unable to comply with his request, not knowing to whom we should address the reply.

W. W. B., of N. Y.-You can manufacture and sell to whom you please, but the word patented must not be used until the letters issue.

S. B. C., of O.-All right!

C. L. A., of D. C.-We have received yours and

will give it attention.

J. G. E , of N. C.—We cannot get you the Courier with the problem. Mr. O. Byrne resides in Philadelphia. Playfair's Euclid is the work we recommended. We have lately seen a plan to take the downward pressure off the gudgeon of the Hotchkiss wheel; we are not at liberty to say how it is done at present. Practically we cannot say much about Howd's Wheel.

W. F. S., of Ohio-There are very many patents on axles; so far, however, as we are able to understand yours, from the description, we think it new and pa

L. H. A., of S. C.—Your inquiries about the Dick Press we have submitted to the manufacturers for their attention.

N. G., of N. Y .- We have little doubs of the novelty of your device, and see no objection to its practical utility. It could be constructed cheaper than the governor, but of its perfect accuracy it is impossible to judge without an experiment. If it works well its cheapness willmake it a great desideratum.

G. D. J., of Pa.—The varnish on page 107, Vol. 6 is the best with which we are acquainted.

M. J. L., of Meredith Bridge-Having never had the itch ourselves, we are unable to recommend to you a cure. Had you paid the postage on your letter we might have consulted some eminent physician here and obtained for you the remedy you seek, but we could not afford to pay postage and consultative fees too.

McK. J., of N. C.—Gutta Percha is used for water pipes, and they are not liable to burst by freezing. They stand a great pressure, but how much we cannot tell. They are sold by "the American GuttaPercha Co., S. T. Armstrong & Co., New York." The price we do not know; they are not much used. We cannot account for the water not running in the pipe you refer to, except upon the condition that it contained compressed air.

S. R. D., of Pa.-We have seen gas made from bitumen and petroleum, by putting it into a short iron retort and introducing it at once into the furnace Dr. Gesner has a patent for this mode of making gas We believe that the same plan would answer for resin, without the extra boiler. You may be able to change our opinion, however.

C. H. L., of La.—Well, the case of the lightning rods, is amusing

S. H., of Conn.—You cannot get a patent on your mode of drawing a boat across a river, for it is a well known plan.

W, H. M., of Pa .-The reason given for water propelling machinery in a superior manner, by night, is owing to the difference of atmospheric pressure on the water which propels the wheel, -the air is more rarified during sunshine, than at night. Fires also burn better, after the sun goes down, upon the same principle.

S. R., of Md.—You can manufacture and sellplumb and levels on either plan you have described without the least danges of interfering with any patent.

Money received on account of Patent Office business or the week ending March 20.

GRS OF THE WEEK ENGING MARCH 20.

W. & L., of N. Y., \$15; J. A. B., of N. Y., \$30; S.

L. & H., of N. Y., \$50; F. & H., of Mass., \$30; W.

V. B., of N. Y., \$20; J. P. D., of Pa., \$105; J. L., of

V. Y., \$32; D. S., of N. Y., \$30; W. T. P. & R., of N.

V., \$3; C. H. P., of N. Y., \$20; W. P. R. & T., of N.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending March 20: N. B., of R. I.; S. W. A., of N. H.; C. H. P., of N. Y.; S. G., of N. Y.; W. W. B., of N. Y.; J. H. S., of N. Y.; W. P. R. & T., of N. Y.; W.—s & S., of Pa.; J. L., of N.Y.; J. T. H., of Pa.

### New Arrangement.

Several of our readers have expressed a wish to subscribe for some literary journal in connection with the Scientific American, not feeling able to take both. We have entered into an arrangement with the publishers of the "American Model Courier," of Philadelphia, and the "American Union," of Boston, which will enable us to furnish either of the two, with the Scientific American, for \$3 per annum. They are literary journals of the first order, and are widely circulated in all sections of the country.

Parties cannot be allowed an addition of one of the Literary papers, as above, by remitting a single dollar after paying their year's subscription to the Scientific American, and money received under such circumstances will be credited in continuance of the Scientific American.

### An Important Paragraph.

## ADVERTISEMENTS.

Terms of Advertising 4 lines, for each insertion, 50cts. 11 \$1,00 12 " \$1,50 66 " " \$2,00 16

Advertisements exceeding 16 lines cannot be admitted; neither can engravings be inserted in the advertising columns at any price.

All advertisements must be paid for before in

BIRKINBINE & TROTTER,—Engineers and Machinists, Contractors for Water-Works, Hydraulic Machinery, &c., No 16 Arch st., Philadelphia, construct Steam Engines and Pumps for Draining Mines and Land, supplying water to towns, factories, farms, &c., also Street Stops, Fire Plugs, Hydraulic Rams (Birkinbine's Patent), and Hydraulic Machinery in general. B. & T. also manufacture M. Alden's patent Fan Blowers.

1\* NEWBOLD H. TROTTER,

BAILEY'S LATHE—For Turning Broom and other Handles, Chair Stuff, straight, swelled, or tapering, warranted to do twice the work of any other lathe. Address L. A. SPALDING, Lockport, 28 4

MORSE'S AIR DISTRIBUTOR—For Burning Sawdust and Tan to generate steam—no steam saw mill is complete without it. Rights to use it in the State of New York for sale by L. A. SPALDING, Lockport, N. Y; or JOHN A. CAMPBELL, Buffalo, N. Y.

F. WHITTAKER, Inventor of the Self-Lie Swinging Musical Cradle, may be seen at the Howard Hotel on and for a short time after the 20th, where he will take great pleasure in exhibiting a model of his invention to persons desirous of purchasing rights chasing rights,

PORTER'S GRADUATING VALVE TUYERE I —Illustrated in this paper Sept. 6, 1851, gives a sure, quick, and clean heat, and saves full 25 cts. per day to each fire. For sale, wholesale and retail, at No. 9 Gold st. W. J. & J. H. BURNETT. 28 4\*

RARE CHANCE FOR A MACHINIST or others—A Machine Shop with steel and or ARE CHANCE FUR A MACHINIST or thers—A Machine Shop, with stock and tools, for sale: it has been in successful operation for four years, is now doing a good business, and with means it may be increased to almost any extent. Satisfactory reasons given for selling out. Price \$1200. Also a 30 horse-power Engine for sale: price \$1200. Apply to A MUIR, 33 Vestry st. (up stairs), N. Y.

A DVERTISEMENT—NICKERSON'S PATENT FIRE-ARMS—This is the only species of firearms for loading at the breech, that can, with propriety, be adapted to the ordinary musket. Its simplicity admits of great economy and solidity of construction, and is well worthy the attention of merchants, manufacturers, &c., as peculiarly suited to the African, South American, and Indian trade. Fowling pieces may be made with great beauty, dispensing entirely with the ramrod, and are every way preferable to those now in use. Proposals for rights of States, or an interest in the manufacture of the same, will be received (post-paid) by C. V. NICKERSON, Inventor and Patentee, Baltimore, Md. 27 2\* DVERTISEMENT-NICKERSON'S PATENT

CHENCK'S MACHINERY DEPOT, No. 64 CHENCK'S MACHINERY DEPOT, No. 64
Courtland st., N. Y.—Has on hand a great variety of Slide and Hand Lathes, Upright Drills, Steam Engines, of 31-2 and 6 horse power, and will receive order for engines of any size; Universal Chucks, Iron Planers, White's Patent Lathe forturning Railroad Car Axles, Hand Punches, and Shears; F. Hariss & Son's S.\_ut and Scouring Machines; Fairman's Chuck Lathe for Boring Car Wheels, &c., all of which I will sell as low and upon as accommodating terms as any house in the city.

27 5\*
SAM. B. SCHENCK.

PRILLING MACHINES—Self-Acting Drilling Machines, of the best construction, capable of drilling holes from one-eighth inch to three inches diameter, with a suitable feed, manufactured and for sale at the Atlas Foundry, corner of Green and Wayne sts., Jersey City. JOHN D. WARD. 274\*

JOHN W. GRIFFITHS—Ship Builder and Marine Architect, 658 Fourth st., N. Y, furnishes models and draughts of all description of vessels, with the computation of stability, capacity, displacement, and necessary amount of impulsion. Propelling power located and proportionably adapted to the form of the vessel, whether sailing or steaming. Mr. G. also superintends the construction of vessels, and may be consulted upon all subjects pertaining to the various departments of the science or practice of ship building. Draughts forwarded by letter to all parts of the world, and to any desired scale; all letters must be post-paid.

EONARD'S MACHINERY DEPOT, 109

Pearl-st. and 60 Beaver, N. Y.—Leather Banding
Manufactory, N. Y.—Machinists's Tools, a large assortment from the "Lowell Machine Shop," and other celebratedmakers. Also a general supply of mechanics' and manufacturers' articles, and a superior
quality of oak-tanned Leather Belting.

27tf P. A. LEONARD.

COTTON MACHINERY—One new Ring and Traverser Warp Frame, 156 spindles, and three new Looms, built in the best manner by the Mateawan Co., and for sale at 60 Beaver st., N. Y., by 27 3\*

P. A. LEONARD.

TEAM ENGINES AND BOILERS—The pattentee is now ready to supply orders for steam engines with Ayer's Patent Improved Boiler of any size required. These boilers occupy but little space, can be set up without brick work, and will make more steam with the same fuel than any other boilers. A self-acting feeder furnishes a constant supply of water, preventing thereby, in a great degree, the danger of explosion. Where doubts are entertained as to the superiority of these boilers, I will be content to receive for the right one-fourthsof the value of the fuel saved by their use. Portable engines furnished to order. E. AYER, Patentee, Norwich, Conn. 267\*

CLOCKS FOR CHURCHES, PUBLIC BUILDINGS, RAILROAD STATIONS, &c., and REGULATORS FOR JEWELLERS.—The undersigned having succeeded in counteracting entirely the influence of the changes of the temperature upon the pendulum, and introduced other important improvements in the construction of clocks, are prepared to furnish an article, superior to any made in the United States, (the highest grade warranted to vary less than two minutes in twelve months). Glass dials for illumination furnished. Address SHERRY & BYRAM, Oakland Works, Sag Harbor, Long Island, N. Y.

and, N. Y.

"At the Oakland Works of Sherry & Byram there
are made some of the finest clocks in the world."—

[Scientific American.

Mr. Byram is a rare mechanical genius."—[Jour. Commerce. 26tf.

THE SUBSCRIBER is now finishing four 14 horse engines, with boiler and apparatus all complete—price \$1200 each. Several 6 horse engines extremely low: also, several of smaller capacity, completely; also, several power plainers, now finishing. Galvanized chain for water elevators, and all fixtures—price low-zw holesale and retail. Orders, post-paid, will receive prompt attention. AAPON KILBORN. No. 4 Howard st., New Haven, Ct. 23 10\*

To FELLOE AND SNATH MAKERS-TO FELLOE AND SNATH MAKERS—The undersigned having purchased the entire right of A. W. Jamson, for his machine for bending carriage felloes, &c., are now prepared to sell State, or county rights for said machine; having used said machine for several years, we know it to be a saving in timber of 30 per cent, and more expeditious. Persons can see one of the machines at work at the manufactory of W S. Johnson & Co., St. George's, Del.; also felloes of all kinds. Shafts and carge stuff always on hand, and at prices to suit dealers in the above.

WM. G. JOHNSTON & Co., 22 10\*

St. George's, Del. St. George's, Del.

A CARD—The undersigned begs leave to draw the attention of architects, engineers, machinists, opticians, watchmakers, jewellers, and manufacturers of all kinds of instruments, to his new and extensive assortment of fine English (Stubbs) and Swiss Files and Tools; also his imported and own manufactured Mathematical Drawing Instruments of Swiss and English styles—which he offers at very reasonable prices. Orders for any kind of instruments will be promptly executed by F. A. SIBEN-MANN, Importer of Watchmakers' and Jewellers' Files and Tools and manufacturer of Mathematical Instruments, 154 Fulton st. 23 13\*

RON FOUNDERS MATERIALS—viz.: fine pulverized Sea Coal, Anthracite and Charcoal, Black Lead and Soapstone Facings. Iron and brass moulding sand; Core sand and flour; English Fire Bricks for cupolas, &c. Fire Sand and Clay—for sale by G. O. ROBERTSON Liberty place, (near the Post Office) N. Y.

WENTILATION—In reference to the advertisement which I have had in this paper for some time, and also in reference to the reward offered by F. M. Ray "for the best method of excluding dust from cars when in motion." I beg to inform car building companies, railroad companies, and steamboat companies, that my patent includes the Ventilation of all these vehicles, and covers the whole ground of excluding dust; "&c. I expect to be in New York and Boston some time next month, of which notice will be given in some of the daily papers, as also of the place where I may be found.

Coburg, Canada, Feb., 1852.

24 5\*

TRACY & FALES, RAILROAD CAR MANU-FACTORY—Grove Works, Hartford, Conn. Pas-senger, freight, and all other descriptions of railroad cars and locomotive tenders made to order promptly. 26tf

POST'S PATENT SLIDING DOOR FRONTS The form of the first and the state of the first and simple facture for securing store fronts, which renders them fire and burglar proof, has been invented and patented by the subscriber, who is now prepared to sell rights. Messrs. Quarterman and Son, 114 Lonest N. V. are general agents. Address. (nost-John st, N. Y., are general agents. Address, (pospaid) Wm. POST, Architect, Flushing, L. I. 25tf

MALLEABLE IRON FOUNDRY, EASTON, Mass—The subscriber continues to manufacture castings of every variety, for machinery and other purposes, of the best quality, at the above establishment. We have facilities for making castings 5 1-2 feet in length. Persons wishing castings can send patterns to Eastern Express, Boston, Mass. All letters will be promptly attended to.
2110\* ALLEABLE IRON FOUNDRY, EASTON

NEW HAVEN MANUFACTURING COMpany, Tool Builders, New Haven, Conn., (successors to Scranton & Parshley) have now on hand \$25 000 worth of Machinist's Tools, consisting of power planers, to plane from 5 to 12 feet; slide lathes from 6 to 18 feet long; 3 size hand lathes, with or without shears; counter shafts, to fit all sizes and kinds of universal chuck gear cutting engines; drill presses, index plates, bolt cutters, and 3 size slide rests. The Co arealso manufacturing steam engines. All of the above tools are of the best quality, and are for sale at 25 per cent. less than any other tools in the market. Cuts and list of prices can be had by addressing as above, post-paid. Warehouse No. 12 Platt st., New York, S. C. HILLS, Agent N. H. Man'g Co.

WHITE'S TUBULAR SUSPENSION Bridge. An Important Paragraph.

Whenever our friends order numbers they have missed—we always send them if we have them on hand. We make this statement to save time and trouble, to which we are subjected in replying when the numbers called for cannot be supplied.

The Post Office Laws do not allow publishers to enclose receipts; when the paper comes regular subscribers may consider their money as received.

Subscribers may consider their money as received.

Subscribers ordering books or pamphlets are particularly requested to remit sufficient to pay postage.

A self-actingfeederfurnishes a constant supply of water, preventing thereby, in a great degree, the danger of explosion. Where doubts are entertained that they have recently obtained Letters Patent for and will derest from 6 to 8000 staves per day, ready for the truss hoops, and at one operation. Rights for states and Counties, and also machines, for sale, that they have recently obtained Letters Patent for the subscribers would respectfully announce that they have recently obtained Letters Patent for the subscribers would respectfully announce that they have recently obtained Letters Patent for the one prepared to content to receive for the right one-fourthsof the value of the story invention, and are now prepared to content to receive for the right one-fourthsof the value of the shove invention, and are now prepared to content to receive for the right one-fourthsof the value of the shove invention, and are now prepared to content to receive for the right one-fourthsof the value of the truss hoops, and at one operation. Rights for States and Counties, and will derest from 5 800 staves per day, ready for the truss hoops, and at one operation. Rights of the above invention, and will derest from 5 to 8000 staves per day, ready for the value for the truss hoops, and at one operation. Fights of States and Counties, and will derest from 5 to thousand feet at one span, and sustaining any specified weight and will derest from 6 to 8000 staves per day, ready for the valu

B. ELY, Counsellor at Law, 46 Washington Patent Cases. Refers to Munn & Co., Scientific American.

13tf

CLOCKS FOR CHURCHES, PUBLIC BUILD-INGS, KALIROAD STATIONS, &c., and REGULATORS FOR JEWELLERS.—The undersigned having succeeded in counteracting entirely the influence of the changes of the temperature upon the pendulum, and introduced other important improvements in the construction of clocks, are prepared to

PAINTS, &c. &c.—American Atomic Drier, Graining Colors, Anti-friction Paste, Gold Size, Zinc Drier, and Stove Polish. QUARTERMAN & SON, 114 John st., 23tf Painters and Chemists.

MACHINERY.—S. C. HILLS, No. 12 Platt-st. 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.

Woodworth's Planing Machine-WOODWORTH'S PLANING MACHINE—
For sale, the right to use this justly celebrated labor-saving machine in the following States,
viz., Pennsylvania west of the Allegheny Mountains,
Virginia west of the Blue Ridge, Ohio, Indiana, Kentucky, Tennessee, Wisconsin, Iowa, Missouri, Arkansas, Texas, Louisiana, Florida, Alabama, and Mississippi. For particulars apply to the Proprietor, ELISHA BLOOMER, 208 Broadway.

17 12\*

WOOD'S IMPROVED SHINGLE MACHINE
—Patented January 8th 1850, is without doubt
the most valuable improvement ever made in this
branch of labor-saving machinery. It has been
thoroughly tested upon all kinds of timber and so
great was the favor with which this machine was
held at the last Fair of the American Institute that
an unbought premium was awarded to it in preference to any other on exhibition. Persons wishing
for rights can address (post-paid) JAMES D. JOHNSON, Bridgeport, Ct.; or WM. WOOD, Westport; Ct.,
All letters will be promptly attended to. 22tf

THE EXCELSIOR Sand and Emery Papers are offered as new and superior articles, being manufactured by an improved process; the paper is made from the best Manilla hemp, and consequently is very strong and lasting; the grit is of the sharpest and most enduring kind, and is firmly attached to the paper with a remarkable evenness of surface; their freeness from ridges, stripes, and other imperfections, recommend them to the notice of consumers. These papers have been used by many of our first mechanics, and are pronounced superior to all others. Every sheet is stamped WM. B. PARSONS, and warranted. Samples furnished at the office, No. 187 Water street, New York. WM. B. PARSONS, 14 6m\* Sole Proprietor. THE EXCELSIOR Sand and Emery Papers.

are offered as new and superior articles, being

P. W. GATES'S PATENT DIES FOR CUTTING SCREWS—Patented May 8th, 1847.—
This Die cuts Screws of any size, V or square thread, by once passing over the Iron. Also, Lead Screws for Lathes, Hoisting Screws, &c. All orders for Dies and Taps, with or without machines, will meet with prompt attention by addressing P. W. Gates, or Gates & McKnight, Chicago; Marshall, Bement & Colby, Philadelphia; Woodburn, Light & Co., Worcester, Mass. References—All the principal machine shops in New York, Philadelphia, and Boston. 13 6m\*

ACHINIST'S TOOLS....Marshall, Bement & Colby, (successors to E. D. Marshall & Co) Callowhill street, west of Schuykill Third, Philadelphia, Pa., are prepared to make to order, and keep on hand Machinist's Tools, such as Planing and Compound Planing Machines, on a new and improved plan, Slide and Hand Lathes, Upright and Horizontal Drills, Upright Boring Machines, Improved Screw and Bolt Cutting Machines, with P. W. Gates' Patent Dies and Taps, or with the common Dies, Gear Cutting Engines, Slotting and Paring Machines. Also keep on hand Washburn & Whites a Patent Scroll Chucks, of all sizes. All orders by letter or otherwise will receive their prompt attention. E. D. MARSHALL, WM, B. BEMENT, G. A. COLBY.

CHAS. W. COPELAND, Consulting and Mechanical Engineer, Surveyor of Steam Machinery, &c., No. 68 Broadway, N. Y., superintends the construction of steam vessels and steam engines, and machinery of every description; specifications and contracts prepared; also general plans and drawings in detail furnished. Steam engines surveyed and valued, and condition reported. Mr. C. also acts as agent for the purchase and sale of steam vessels, ateam engines, boilers, &c. 2110\*

MANUFACTURE OF PATENT WIRE Ropes and Cables—for inclined planes, suspension bridges, standing rigging, mines cranes, derick, tillers &c.; by JOHN A. ROEBLING; Civil Enginer—Trenton N. J.

PATENT CAR AXLE LATHE—I am now manufacturing, and have for sale, the above lathes; weight, 5,500 pounds, price \$600. I will furnish a man with each lathe, who will turn and finish axles for 50 cents each, if desired. I have also for sale my patent engine screw lathe, for turning and chucking tapers, cutting screws and all kinds of common job work, weight 1500 lbs., price \$225. The above lathe warranted to give good satisfaction. J. D. WHITE, Hartford, Ct.

MORTISING MACHINE.—Dear Sirs: I received the Portable Mortising Machine about 3 weeks ago; I have used it, and am very well pleased with it. It is the best plan of a machine of the kind I have ever seen. W. R. McFARLAND. Nashville, Tenn., 1851.

This machine is simple, durable, and effective, and is boxed and shipped for the low sum of \$20.

MUNN & CO.

MUNN & CO.

AWKIN'S Stave Dressing Machine—Is now in operation in the city of Milwaukie, Wis, and will dress from 6 to 8000 staves per day, ready for the truss hoops, and at one operation. Rights for States and Counties, and also machines, for sale, apply to WM. HAWKINS, Patentee, Milwaukie, Wis. 15 20\*