

TO CORRESPONDENTS.

J. C. S., of N. Y.—You appear to have hit on the Ericsson propeller; the single propeller, with an increasing pitch in the blades, has been the most successful...

N. R. M. & Co., N. Y.—Your water-cock will work well enough, if the column of feed water is of greater weight than the pressure of steam on the water in the boiler...

F. C. of Mich.—Your torpedo would no doubt be of great benefit, in cases of danger, if constructed as you propose...

A. M. S., of Ind.—You should write Messrs. Douglass, of Middletown, Conn., for such information as you solicit of us.

Subscribers at Mount Morris, Ill.—Your first letter came duly to hand with funds, but the name of the State was omitted both on the letter and on the envelope which covered it...

J. E. B., of N.—We have received yours but do not understand the case, because you have not explained it, and your letter does not clear up the circumstances...

A. J. M. D., of Geo.—Capt. Ericsson first built a stationary hot-air engine. You have got the receipt for glue by this time.

H. D., of N. Y.—Alum water will tan your white skins; be sure to get the grease out of them; it requires practice to do so correctly.

H. M. S., of N. Y.—We do not see any novelty in your arrangement of windmill, and feel sure no patent can be obtained.

P. C., of Ky.—We keep Concentric Lathes constantly on hand, price \$25; also a very compact mortising machine for \$20 you can order at any time.

S. F., of Pa.—We are not acquainted with any better substance for smoothing the spokes than what you are using.

J. S. D., of Tenn.—There is nothing new or patentable in your alleged improvement in brakes; the principle is good but not new.

J. M., of Pa.—G. W. Terry, of New Haven, Ct., can furnish you with information about works on distilling and alcohol.

J. V. S., of Ohio.—We see nothing new or patentable in your device for feeding water to boilers.

O. F. M., of C. W.—No person can instruct you how to make malleable iron, you must learn the trade like any other profession.

L. B. C., of S. C.—We feel greatly obliged to you for the fine list of subscribers received from you, and regret that we are unable to furnish your club with the back numbers.

J. W. G., of Ind.—The edition of Minnie's Drawing Book, now publishing in numbers, contains the same matter as the work originally published; price in numbers 25cts. each; bound, \$3, exclusive of postage, which is about 30cts.

J. C., of N. H.—You will find several good receipts for making ink, black, blue, and red, in Vol. 7, Sci. Am., page 91.

D. G. S., of Pa.—Your paddle-wheel is too complicated to be of any practical benefit if put into use.

A. P., of N. J.—Your description is too concise to give a decided opinion upon the subject.

E. C. B., of N. Y.—We do not know where Jeffries' Marine Glue is obtainable, perhaps the following recipe will be a substitute: caoutchouc, 15 grs.; chloroform, 2 oz.; mastic, 1-2 oz.; dissolve the two first ingredients, then add the mastic, and leave it to macerate for a week.

L. R., of N. Y.—The magnet will not attach itself to the wheels.

Blast Pipe—Who can tell us what was the cause of the bursting of the blast pipe at the Crane Iron Works, Pa., recently?

E. A. F., of S. C.—We have received yours, and think as you do on the subject.

J. B. C., of Tenn.—Yours has come to hand and will receive attention.

Money received on account of Patent Office business for the week ending Saturday, March 26:—

J. A., of Ct., \$25; H. R., of N. J., \$30; T. F., of Ct., \$20; J. H. B., of Ct., \$30; J. B., of N. Y., \$20; B. H. O., of N. Y., \$30; A. C., of Ct., \$25; F. O. D., of Pa., \$20; R. C. W., of O., \$55; J. M., of Del., \$25; H. B., of Ct., \$30; N. N. T., of N. Y., \$30; H. C. H., of N. Y., \$30; W. H., of N. Y., \$30; R. S., of N. J., \$30.

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday March 26:—

J. A., of Ct.; B. J., of N. Y.; A. L. McJ., of Ohio; S. A. & J. G., of R. I.; T. J. A., of Ohio; A. C., of Ct.; S. W. & G., and R. M. D., of Mass.; J. T., of Ill.; J. B., of R. I.; R. S., of N. J.

ADVERTISEMENTS.

American and Foreign Patent Agency

IMPORTANT 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.

MACHINE FOR MAKING RAILROAD CHAIRS.—Having built one of my patent machines for making Railroad Chairs, and operated it in presence of several scientific mechanics, who pronounce it the most perfect machine ever made for the purpose.

ALDEN'S PATENT FAN BLOWER.—FOR Foundries, Smitheries, Rolling Mills, Steamboats, Ventilation, &c. These Blowers possess many advantages over those of other construction, they will produce a stronger blast with less power, make less noise, and are less liable to get out of order.

ENGINEERING.—The undersigned is prepared to furnish specifications, estimates, plans in general or detail of steamships, steamboats, propellers, high and low pressure engines, boilers, and machinery of every description.

FAMILY SCHOOL FOR BOYS.—Easton, Conn. Number Limited to Twelve. Summer Session begins May 2nd. Rev. C. T. Prentice, Principal.

WOODBURY'S PATENT PLANING MACHINES.—I have recently improved the manufacture of my Patent Planing Machines, making them strong and easy to operate, and am now ready to sell my 24 inch Surfacing Machines for \$700, and 14 inch Surfacing Machines for \$650 each.

TO ARTISTS, DESIGNERS, &c., one hundred dollars premium.—The government of the Massachusetts Charitable Mechanic Association having determined to procure a new diploma to be used at the Exhibition the present year, hereby offer a premium of one hundred dollars for the best original design of one Artist and others who may be disposed to compete.

OLIVER'S WIRE WORKS.—No. 25 Fulton St., corner of Water. Locomotive Spark Wire, Patent Self-Setting Revolving Rat Traps; a new invented enclosed Coal and Ash Separator, and Wove Wire of every description.

NORCROSS ROTARY PLANING MACHINE.—Decided by the Circuit Court not to infringe the Woodworth Machine—I now offer my Planing Machines at a low price; they are not surpassed by any machines as to amount or quality of work.

BLACK LEAD CRUCIBLES.—The subscriber is now manufacturing and keeps on hand an assortment of the above crucibles for steel melting, brass and other metal workers, which are warranted equal to any now in use.

GEAR CUTTING.—To order, executed with dispatch, straight, spiral, and bevel, at the machine shop No. 60 Vesey St., N. Y. G. W. WIGHT. 27 4\*

HORSE STEAM ENGINE FOR SALE.—We offer for sale an Engine and Boiler, as follows 8 horse, horizontal, cylinder 7 inches bore, 16 inch stroke, on a cast-iron bed, fly wheel, driving pulley, governor, pump, pipes, etc.; has never been used.

THE NEW HAVEN MANUFACTURING Company, New Haven, Conn., having purchased the entire right of H. Harrison's Flour and Grain Mill, for the United States and Territories, for the term of five years, are now prepared to furnish said mills at short notice.

THE NEW HAVEN MANUFACTURING CO. No. 2 Howard St., New Haven, Ct., are now finishing 6 large Lathes, for turning driving wheels, and all kinds of large work; these lathes weigh 9 tons, and swing 7 1/2 feet, shears about 16 feet long.

PARKER'S PATENT METHOD OF BANDING Pulleys.—Portable Sawing Machines, made separate either for circular or scroll sawing, may be seen at No. 110 East 13th street, near Third avenue, where any information will be given as to its application to other machinery.

PORTABLE STEAM ENGINE.—Any one having for sale a good second-hand Portable Steam Engine and Boiler, of from 3 to 7 horse-power, will do well to address. C. H. WARNER, 28 2\*

TO SASH OR CABINET MAKERS ABOUT to commence business.—A couple of young men acquainted with working sash or cabinet machinery possessing a small capital can hear of a good chance for business in a large and flourishing city, where there is no competition, and prices from 50 to 100 per cent higher than in New York or Boston.

BOSTON BELTING COMPANY.—No. 37 Milk Street, Boston, Manufacturers of Machine Belting, Steam Packing, Engine and Conducting Hose, and all other articles of Vulcanized India Rubber, used for mechanical and manufacturing purposes.

PORTABLE STEAM ENGINES.—The subscriber is now prepared to supply excellent Portable Engines, with Boilers, Pumps, Heaters, etc., all complete, and very compact, say 1, 2, 2 1/2, 3, 4, 6, 8, and 10 horse-power, suitable for printers, carpenters, farmers, planters, &c.

THE PROPRIETORS OF JAMES RENTON'S Patent, for the manufacturing of wrought iron direct from the ore, are desirous of introducing the invention generally, and invite parties who may wish to negotiate for rights for States and counties, or for furnaces, to make immediate application, and to visit the works at Newark and examine for themselves.

MAXWELL IRON WORKS, 259 Bowery, N. Y. Steam engines, lathes, drilling and planing machines, machinists' tools of every description, printing, lithographic and copperplate presses, bookbinders' cutting and embossing presses, rolling machines and squaring shears, iron backing presses, improved standing press, proof and transfer presses, cylinder newspaper press, self-inking apparatus, and every article in the press line, necessary in a printing office or bindery, made to order, on reasonable terms.

LEE & LEAVITT.—Manufacturers of every description of Cast Steel Saws, No. 53 Water street, between Walnut and Vine, Cincinnati O. 27 6m\*

SPILLARD AND DODGE.—Arch Street Hall Brass Foundry, and manufactory of plumbers' brass; water, steam, and gas cock constantly for sale upon reasonable terms; 213 Arch street, Philadelphia, Pa. 25 8\*

AARON KILBORN, No. 4 Howard St., New Haven, Conn., manufacturer of Steam Engines, Boilers, &c. Noiseless fan blowers and machinery in general. 25 10\*

SAND PAPER, GLUE.—Excelsior Sand and Emery Paper. ABBOT'S Manilla Sand and Match Papers. Emery Cloth, Emery, Emery Grit, Pumice Stone ground and in lump, of very superior quality; also Glue of all grades, and in quantities to suit purchasers at the lowest manufacturers' prices, for sale by WILLIAM B. PARSONS, 284 Pearl street. 24 8\*

COTTON MACHINERY.—Of the most approved plans, from the best shops in the country;—drawings, specifications, and general arrangements for the machinery, furnished at the lowest rates, by W. B. LEONARD, and E. W. SMITH, 75 Merchants' Exchange, New York. 23tf

WOODWORTH PLANING MACHINES, ON hand and manufactured to order, of superior quality, at reduced prices, warranted perfect. Also steam engines and other machinery, by JOHN H. LESTER, 57 Pearl street, Brooklyn, L. I. 22 3\*

HARRISON'S UNEQUALLED FLOUR AND GRAIN MILLS.—Their frames and hopper are cast-iron, and the stones French Burr, 30 inches in diameter; grinds of wheat and corn 20 bushels an hour, weighs fourteen hundred pounds. These mills, constructed upon a new principle, have become widely known, and are producing a revolution in milling. Cash orders promptly supplied, and the mills warranted to work in the best manner.

BEARDSLEE'S PATENT PLANING Tongue-Beating and Grooving Machines.—These celebrated machines have now been generally introduced in various portions of the United States. More than thirty are now in successful practical operation in the State of New York alone.

W. P. N. FITZGERALD, Counsellor at Law has recently resigned the office of principal Examiner of Patents, which he has held for many years, and is ready to assist, professionally, in the preparation and trial of patent causes before the U. S. Courts in any of the States, and before the Supreme Court of the United States.

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 Tenoning 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. 27tf

A. B. ELY, Counsellor at Law, 52 Washington St., Boston, will give particular attention to Patent Cases. Refers to Munn & Co., Scientific American. 16tf

LEONARD'S MACHINERY DEPOT, 109 Pearl-st. and 60 Beaver, N. Y.—Leather Banding Manufactory, N. Y.—Machinists' Tools, a large assortment from the "Lowell Machine Shop," and other celebrated makers. Also a general supply of mechanics' and manufacturers' articles, and a superior quality of oak-tanned Leather Belting. 27tf P. A. LEONARD.

PAINTS, &c. &c.—American Atomic Drier Graining Colors, Anti-friction Paste, Gold Size, Zinc Drier, and Stove Polish. QUARTERMAN & SON, 114 John St., Painters and Chemists. 27tf

CHILDS, TAITER & CO., Worcester, Mass., Builders of Daniel's Planers, with Read's feed motion, and J. A. FAY & CO's celebrated Woodworking Machinery. 24 8\*

BLACK LEAD CRUCIBLES and Melting Pots of any form, size and quality, made to suit customers, for 3 cents per number, and warranted equal to any of the kind manufactured in the world, by D. H. PURINTON, Somerset, Mass. 23 10\*

PATENT DRAFT BOARDS.—With extension scales, sheet fasteners, and T rule. See Reports of Worcester Fair, Maryland State Fair, &c. &c. with their awards. \$10 complete. Sent by express. Address, post-paid, CHAMBERLIN & CO., Pittsfield, Mass. 16tf

FOR SALE.—A new Horizontal Steam Engine, complete, with pumps 7 inch bore, 2 feet stroke, well suited for a saw mill; price \$325; also one second-hand, nearly new, perpendicular, in iron frame work, complete, with pump and governor, 4 horse power, price, \$175; all warranted to work well and of sound materials. Address C. SIMON, Louisville, Ky., (Main between 11th and 12th sts) 29 2\*

LATHES FOR BROOM HANDLES, Etc.—We continue to sell Alcott's Concentric Lathe, which is adapted to turning Windsor Chair Legs, Pillars, Rods and Rounds; Hoe Handles, Fork Handles and Broom Handles.

This Lathe is capable of turning under two inches diameter, with only the trouble of changing the dies and pattern to the size required. It will turn smooth over swells or depressions of 3-4 to the inch and work as smoothly as on a straight line—and does excellent work. Sold without frames for the low price of \$25—boxed and shipped with directions for setting up. Address (post-paid) MUNN & CO. At this Office.

FALES & GRAY (Successors to TRACY & FALES), RAILROAD CAR MANUFACTURERS—Grove Works, Hartford, Connecticut. Passenger, freight, and all other descriptions of railroad cars and locomotive tenders made to order promptly. 1tf

C. B. HUTCHINSON'S PATENT STAVE Cutting Machines, the best in use, and applicable alike to thick or thin staves; also his Head Cutting and Turning, and Stave Jointing Machines. For machines or territorial rights, apply to C. B. HUTCHINSON & CO., Syracuse, N. Y. 9tf

J. D. WHITE'S PATENT CAR AXLE LATHES—also Patent Engine Screw Lathes, for boring and turning tapers, cutting screws, &c. We manufacture and keep constantly on hand the above lathes; also double slide Chuck and common Hand Lathes, Iron Planers, S. Ingersoll's Patent Universal Ratchet Drill, &c. Weight of Axle Lathe, 5,500 lbs; price \$600; Engine Screw Lathe, 1400 to 7,000 lbs; price \$225 to \$675, BROWN & WHITE, Windsor Locks, Conn. 27tf

COCHRAN'S CRUSHING MACHINE.—Can be seen in daily operation in Thirteenth street, between 9th and 10th avenues. Parties in want of a machine for crushing and pulverizing quickly and cheaply Quartz Rock, Iron, Lead, Copper, and Silver Ores, and other mineral substances equally hard, are invited to witness the operation of these powerful and simple, but yet effective machines. For further particulars apply to E. & J. BUSSING & CO., No. 32 Cliff St., Y. N. 23tf

PATENT LAWS OF THE UNITED STATES, and information to inventors and patentees; for sale at the Scientific American office. Price 12 1-2 cents.