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: it is more simple and can be made cheaper; we prefer it. Sir G. C.'s ideas are to be found in the "London Mechanic's Magazine," in the discussion of the Stirling Air Engine, 1846.

N. R. M. & Co., N.Y.—Your water-cock will work well enough, if the column of feed water is of greater weigh't than the pressure of steam on the water in the boiler; if not, the water in the boiler would be forced up the pipe.

F. C., of Mich.-Your torpedo would no doubt be of great benefit, in cases of danger, if constructed as you propose, but as we do not know the plan, you will readily judge that we cannot say more about it,

A. M. S., of Ind.—You should write Messrs. Douglass, of Middletown, Conn., for such information as you solicit of us. Those odd back numbers we have

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, so we knew not where to address the papers. Very many of our correspondents are too careless about mentioning the name of the State from whence they hail; by being more particular in this respect they will save themselves, as well as us, much trouble sometimes.

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 plain and clear statement of the circumstances is the thing wanted in connection with the elucidation of the power of the engines and speed of the screw. Write cautiously and clearly.

A. J. M. D., of Geo.—Capt. Ericsson first built a stationary hot-air engine. You have got the re-ceipt for glue by this time. The amount for the two patents would be about \$1100.

H. D., of N. Y.—Alum water will tan your white skins; be sure and 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

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 Minnifie's Draw ing 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 : cautchouc, 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. Another glue or cement is made by mixing a handful of quicklime, with four ounces of linseed oil, washed, and boiled to a good thickness, and kept in the shade on tin plates to dry; it is afterwards rendered fit for use by boiling itover a fire.

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 busi-

ness 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.

ADVERTISEMENTS.

American and Foreign Patent Agency

MPORTANT TO INVENTORS .--- The unde signed having for several years been extensively engaged in procuring Letters Patent for new mechanical and chemical inventions, offertheir services to inventors upon the most reasonable terms. All business entrusted to their charge is strictly confidential. dential. Private consultations are held with inven-tors at their office from 9 A. M., until 4 P. M. In-ventors, however, need not incur the expense of at-tending in person, as the preliminaries can all be ar-ranged by letter. Models can be sent with safety by

ranged by letter. Models can be sent with safety by express or any other convenient medium. They should not be over 1 footsquare in size, if possible. Having Agents located in the chief cities of Europe, our facilities 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 Patents.

MUNN & CO., Scientific American Office,
128 Fulton street, New York.

MACHINE FOR MAKING RAILROAD Chairs ACHINE FOR MAKING RAILROAD Chair

—Having built one of my patent machines for
making Railroad Chairs, and operated it in presenc
of several scientific mechanics, who pronounce i
the most perfect machine ever made for the purpose
I am anxious to sell rights upon reasonable terms
4000 perfect chairs can be made in one day, wit
only one-third the usual labor. ROBERT GRIF
FITHS, Newport, Ky, opposite Cincinnati.

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 preduce a stronger blast with less power, make less noise, and are less liable to get out of order, they are made entirely of metal, of the best material and workmanship. A printed report of a trial of them will be sent to those wishing it, by addressing the subscriber. Also Birkinbine's Patent Improved Hydraulic Ram and Force Pump. J. B. CHI-CHESTER, Agent, 338 Broadway, N. Y. 29 2*

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. Broker in steam vessels, machinery, boilers, &c. General Agent for Ashcroft's Steam and Vacuum Gauges, Allen & Noyes' Metallic Self-adjusting Conical Packing, Taber's Water Gauge, Sewall's Salinometers, Dudgeon's Hydraulic Lifting Press, Roebling's Patent Wire Rope for hoisting and steering purposes, etc. etc.

for hoisting and steering purposes, etc. etc.
CHARLES W. COPELAND,
29 13* Consulting Engineer, 64 Broadway.

FAMILY SCHOOL FOR BOYS—Easton, Conn Number Limited to Twelve. Summer Session begins May 2nd. Rev. C. T. Prentice, Principal, References for circulars, etc.—S. H. Wales, Esq., Scientific American Office; Rev. S. J. Prime, 142 Nassau st; F. C. Woodworth, Esq., 118. Nassau st, and Uapt. J.—Brooks, Peck Sitp, New York; George Sterling, and J. D. Johnson, Esqs., and Rev. Mr. Hewit, of Bridgeport, Conn.; Rev. Messrs. Atwater, of Fairfield, and Hall, of Norwalk, Conn.

WOODBURY'S PATENT PLANING Machine 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, I will warrant, by
a special contract, that one of my aforesaid machines
will plane as many boards or plank as two of the
Woodworth machines in the same time, and do it
better and with less power. I also manufacture a
superior Tonguing and Grooving Machine for \$350,
which can be either attached to the Planing Machine, or worked separately. JOSEPH P. WOODBURY, Patentee, Border st, East Boston, Mass. 29tf

TO ARTISTS, DESIGNERS, &c., one hundred dollars premium.—The government of the Massachusetts Charitable Mechanic Association having achusetts 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 Artists and others who may be disposed to compete, will please send their drawings to the secretary on or before Saturday the thirtieth day of April next. Each drawing must have some mark upon it, and must be accompanied by a sealed envelope, bearing a similar mark, and containing the address of the party sending it. For the design which shall be adopted by the executive committee the above premium will be paid. The other designs will be returned to their respective owners on demand. Any further information may be obtained by application to the Secretary. In behalf of the Government, FRED. H. STIMPSON, Secretary.

Boston, Feb. 23, 1853.

CLIVER'S WIRE WORKS—No. 25 Fulton st, corner of Water. Locomotive SparkWire, 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 Mawoodworth 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. Tongueling and grooving machines also for sale, doing one or both edges as desired; 80 machines now in operation. Address me at Lowell, Mass. tion. A 27 10* N. G. NORCROSS.

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. Orders respectfully solicited by DANIEL ADEE, Agent, 107 Fulton street, N. Y. 27 4*

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*

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. MoJ., of Ohio; A. G., of Ct.; S. W. & G., and R. M. D., of Ohio; A. C., of Ct.; S. W. & G., and R. M. D., of Mass; J. T., of Ct.; S. W. & G., and

THE NEW HAVEN MANUFACTURING
Company, New Haven, Conn., having purchased the entire right of E. 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. These mills are unequalled by any other mill in use, and will grind from 20 to 30 bushels per hour of fine meal, and will run 24 hours per day, without heating, as the mills are self-cooling. They weigh from 1400 to 1500 lbs., of the best French burr stone, 30 inches in diameter: snugiy packed in a cast-iron frame, price of mill \$200, packing \$5. Terms cash Further particulars can be had by addressing as above, post-paid.

THE NEW HAVEN MANUFACTURING CO. THE NEW HAVEN MANUFAUTURING TO 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 1.3 feet, shears about 16 feet long. Outs and further particulars can be had by address-

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 hav-ing for salo a good second-hand Portable Steam Ing 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,

To sash or cabinet makers about to commence business.—A counter of vorce 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. Address J. E. TURNBULL, Saint Johns, New Brunswick. Brunswick.

POSTON 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 andmanufacturing purposes.

PORTABLE STEAM ENGINES—The subscri-DORTABLE 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, and 10 horse-power, suitable for printers, carpenters, farmers, planters, &c, they can be used with wood, bituminous, or hard coal; a 2 1-2 horse engine can be seen in store, it occupies a space 5 feet by 3 feet, weighs 1500 lbs., price \$240; other sizes in proportion.

S. C. HILLS,
27 cott Machinery Agent, 12 Platt st, N. Y.

THE PROPRIETORS OF JAMES RENTON'S THE PROPRIETORS OF JAMES RENTON'S

Patent, for the manufacturing of wrought iron directfrom the ore, are desirous of introducing the invention generally, and invite parties who may wish to negociate for rights for States and counties, or for furnaces, to make immediate application, and to visit the works at Newark and examine for themselves; they are disposed to make liberal arrangements with responsible parties who make an early application. Applicants for rights in the State of New Jersey may address Hon. J. M. Quinby, President of the American Iron Co. Inquiries or application for other States may be made to the subscribers. The furnace which is now in operation at the American Iron Co's works, corner of Parker and Passaic sts., Newark, N. J., is attracting considerable interest. Gentlemen from all parts of the county have visited the works, examined the operation, and express the highest commendation of it. JAMES RENTON, A. H. BROWN, Proprietors, Newark, N. J. 265*

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, cylinder newspaper press, self-inking apparatus, and every article in the press line, necessary in a prining office or bindery, made to order, on reasonable terms. All kinds of repairing done with the greatest despatch. N. B—Steam fire pumps made 10 per cent. cheaper than at any other establishment. 26 4*

LEE & LEAVITT - Manufacturers of every de-La scription 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.

A ARON KILBORN, No. 4 Howard st, New Haven, Conn., manufacturer of Steam Engines, Boilers, &c. Noiseless fan blowers and machinery

CAND PAPER, GLUE—Excelsior Sand and Emery Paper. ABBOTS 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.

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

Woodworth Planing Machines, on W 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. 1. 228*

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. The patentee offers \$500 reward for any mill which will do an equal amount of work with the same power and dressing. Made and for sale at the corner of Court and Union streets, New Haven, Conn. by 2012*

EDWARD HARRISON.

BEARDSLER'S PATENT PLANING Tongueing 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. As an illustration of
the extent of work which they are capable of performing, with unrivalled perfection, it is sufficient
to state that, within the last six months and a half,
over five millions of feet of spruce flooring have
been planed, tongued and grooved by one of these
machines at Plattsburgh, N. Y. never running to
exceed ten hours a day. The claim that the Beardslee machine was an infringement upon the Woodworth patent, has been finally abandoned; and after
the proofs had been taken, the suit instituted by the
owners of that patent was discontinued, and the
whole controversy terminated on the first of November last. Applications for machines or rights may
be made to the subscriber, GEO. W. BEARDSLEE,
57 State street, or No. 764 Broadway, Albany.

15tf BEARDSLEE'S PATENT PLANING Tongue

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. He also acts as
Counsel in cases before the Patent Office, and on appeals therefrom, but does not prepare applications
for Patents Office corner of E and 8th sts., Washington, D. C. 18tf

MACHINERY.—S. C. HILLS, No. 12 Platt-st. N MACHINERY.—S. C. HILLIS, No. 12 PHATE-ST. IN.

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 Gorn mills; Burr mill and Grindstones; Lead and Iron Pipe &c. Letters to be retired must be nost-naid.

27tf noticed must be post-paid.

A. B. ELY, Counsellor at Law, 52 Wasnington st., Boston, will give particular attention to Patent Cases. Refers to Munn & Co., Scientific

Leonard's Machinery Depot, 169
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 celebrated makers. Also a general supply of me-chanics' 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., 27tf Painters and Chemists.

CHILDS, TAINTER & CO., Worcester, Mass., Builders of Daniel's Planers, with Read's feed motion, and J. A. FAY & OO's. celebrated Wood working Machinery.

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.

PATENT DRAFT BOARDS—With extension PSALEWI 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.

FOR SALE—A new Horizontal Steam Engine, complete, with pumps 7 inch bore, 2 feet stroke, wel suited for a saw mill; price \$325; also ne 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, Kr. (Main between 11th and 12th sts) 29.2* Ky., (Main between 11th and 12th sts)

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

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 +his Ofice.

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.

B. HUTCHINSON'S PATENT STAVE Cut-• ting 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

D. WHITE'S PATENT CARAXLE LATHES J. WHITE'S PATENT CARAXLE 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. Ingersol's Patent Universal Ratchet
Drill, &c. Weight of Axle Lathe, 5,500 lbs; price
\$600; Engine Serew Lathe, 1400 to 7,000 lbs; price
\$225 to \$675,

BROWN & WHITE,
27tf Windsor Locks, Conn.

OCHRAN'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.

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