Scientific American.

TO CORRESPONDENTS.

C. J. F., of Ohlo-Your sail will not have the same pressure upon each square inch of canvas as the ordinary one. The pressure depends upon the vertical a ea of the portion of the current of air intercepted. You had better consult a nautical man as to the practicability of rigging a ship on your plan; a patent could be probably obtained, but we think it of doubtful utility.

E.W. D., of Ct.-Have you ever paid strict attention to the formation of ' anchor ice;" we know that ice is oftentimes found on the bottoms of rapid shallow rivers, and have seen it often, but we want positive information respecting the mode of its formation.

B. F. W., of N. Y.-There is no particular work which treats exclusively of the high pressure engine.

T. S. P., of Pa.—There is no great danger of an explosion from the water getting below the fire line, excepting from the weakening of the metal by over-heating, whereby it is easily torn asunder by a very limited pres sure of steam.

J. L., of N. C.—We really could not give you the information desired about the price of machinery, the num ber of hands necessary, and an account of the method of conducting the business, or we should be happy to do so; we have never been engaged in the business to know all these particulars; we know how the manufacture is conducted, and that is all-no small affair either.

J. T. G., of Ky.-By placing your two 18 feet boilers end to end, you would not be able to raise the same quantity of steam in the same time as by having two furnaces. It has been found that boilers of four times the length of the fire are as economical as any other kind, that is, for coal; if you burn wood they should be longer-as long as the length of flame, whatever that

O. K., of Pa.—Some two or three yearssince we remom ber a patent issued that covered the same improvem in reapers as you describe. The name of the patentee we have endeavored unsuccessfully to recall to mind.

F. A., of Warsaw-Matrasses for ships, &c., have been made of tubes of india rubber, granulated corks, and feature in yours: it would not be patentable to increase

their size—any one would have a right todo this.

W. C. H., of Mass.—The wet process is the best for purifying gas-the purifyer should be well agitated.

W. G., of Va.-A patent could not be obtained for using a platinum gauge cylinder in hurning gas made

S. M., of Me.-Yours will appear in due season, butthis

is not a prop r time for it.

A. S., of New York.—We have published receipts for gum arabic paste; it is so simple to make that any person can do so without instructions by simply dissolving the gum in water.

. W. J. & J. E., of Iowa-We have never seen cast steel soldered with softsolder; we think it may be done. D. W. R., of Conn.-Compressed air has been used for many engines, but yours may be different from other

plans; the patent fee of government is \$30. H. L. H., of B-.---. The patent could not be obtained for the quality of leather produced but the process. The best solution you can use to stand the heat is an

T. J. B., of Mass .- You will see a recipe for tempering steel in another column.

J. V. S., of N. Y.—The best work on railroads and loco motives is Mr. Clarke's, price 621-2 cents per number : sold byBlackie & Son, Fulton street, N. Y.

G.R., of N. Y.-We have never seen the phenomenor you speak of, and do not know but your views may be

T. L., of Ohio-You are right about the Marine Hog. The pitch between the parallel of the two pulleys need not be over one inch: but this depends in a measure on the weight of the belting. Thereis a great diversity of opinions about belting.

H. R., of N. Y .- We give every one of our readers all the reasonable information we consistently can without fee or reward.

, of Ohio-We can give you the receipe for making the fluid which you speak of, but you will find it on page 213, Vol. 8, Sci. Am. We can also give you the recipe for the varnish, but you can also find one that will answer in No. 21, this volume.

L. R., of N. Y.—We have no idea of any power independent of motion.

D. H. of Boston-We laid aside the letter, of F., of Ind., and do not know where to find it now. P. R., of L. I.—Your plan of injecting the matter to

prevent incrustations we think will answer very well. J. C. T., of Mass.—We published a good receipt for browning gun barrels in Vol. 6, Sci. Am. We can send you the method if you want it.

J. G., of Conn.-We could give you the information but it would be far better for you to go into a bindery and see the operation.

H. C., of La.—You know your case best; the common rules are very simple.

W. R.. of Mo.-Do not use high pressure steam for bending timber, let it be low pressure: seven lbs. pres sure is sufficient, and for some specimens it may be he cessary to boil them in water.

A. S. M., of Ohio.-Yourplan can never be made avail able. It was tried a few years ago on the HudsonRiwer.
F. R. B., of N. Y.—A water wheel constructed on the principle you describe is not new. We know of many

principle. N. S. K., of N. Y.—A universal joint in a propeller shaftare not new. Wasapnot tell whether the peculiar shape of the blade is patentable until we know what it is.

J. D. H., of N. Y.— When you write to any one in future

don't neglect to sign your name to your communication. Send us one of your improved matchboxes for examina-tion, and we will write you our opinion on its receipt with your proper address.

D. J., of Pa.—Your plan for ventilating cars by placing a fan blower in front of the locomotive for forcing air

J. C., of Melford.-If you had given us the State in which you reside, your letter of the 25th ult. would have been answered by mail immediately upon its receipt. The device for keving up floors, etc., is new, we think, and you had better send us a model.

T. S. J., of Ohio.-You will see an article in this T. S. J., of Unio.—10u will see an article in this number on the preparation of lead for pencils. There surely must be some works in our country for twisting augers by machinery, but all we have seen have been done by hand.

TELITING FOR STEAM BOILERS & PIPES—
Manufactured by J. H. Bacon, Winofrater, Mass, augers by machinery, but all we have seen have been done by hand.

R. B. Jr., of N. H.-The form of the spindle is not a new idea for the hull of a vessel, and we can best answer most of your other questions by saying it will never an swer, Such a vessel would rol too much. The method of securing the sheathing without exposing the nail heads may be valuable and patentable, if it will answe as well.

M. K., of Ind.—Build a brick kiln and burn your lime in it. See an illustrated plan for constructing kilns, on page 24. this Vol., Scientific American.

J. E. P., of Philadelphia.—The extract to which you refer was taken from a foreign journal.

J. C., of Vt.—We believe that the composition for pre

venting incrustations in boilers may be introduced through the feed pipe-try it.

W. S., of N. Y.—Your plan of atmospheric railroad pro pulsion is not new; it is the same as that for which Ira Avery, of Pennsylvania, obtained a patent some years

Money received on account of Patent Office business for the week ending Sat rday, March 4:-

A. G., of N. Y., \$35; H. L. T., of N. Y., \$50; J. B. S., of Wis., \$30; R. V. DeG., of N. Y., \$10; N. W. R., of N. Y., \$50; S. N. & W. F. S., of N. Y., \$25; J. C. R., of Ind., \$30 W. D., of N. Y., \$45; C. B., of N. Y., \$30: J. S. T., of Ct. \$30; F.M. H., of O., \$25; P. Z. F., of R. I., \$30; T. M. P., of Md., \$30; G. H., of R. I., \$25; H. Ü. B., of Mich., \$25; H. W. P. & Oo, of N. Y., \$30; T. J. H., of N. Y., \$30; W. T., of Ct., \$30; J. McM., of Ky., \$40: W. W., of Ill., \$55; G. M., of Ill., \$20; M. C. B., of N. H., \$15; B. E. P., of Me., \$64; H. E. P., of S. C., \$55; A. C. M., of Ind., \$10: H. O. P., of N. Y., \$30; J. H. K., of N. Y., \$25; S. B., of N. Y., \$55; P. A., of N. Y., \$12.

Specifications and drawings belonging to parties with the following ini ials have been forwarded to the Patent

Office during the week ending Saturday, March 4:— P. S., of Ct.; N. W. R., of N. Y.: S. U. & W. F. S., N. Y.; J. B., of O.; S. B. C., of Pa.; P. Z. F., of R. I.; F M. H., of O.; H. E. C., of N. Y.; J. H. K., of N. Y.; G. H., of R. I.; H. G. B., of Mich: W. D. of N, Y.; S. B., of N. Y.

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BARSTOW & WOODMAN, Attorneys and Patentes, in introducing their inventions into use, or in the sale of rights or prosecution of violators. Address as above, post-paid.

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Mechanical author, OLIVER BYRNE, is this day pubished by T. K. Collins, Jr., No. 8 North Sixth street,
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BAKER'S IMPROVED HOILER FORNACE-AKER'S INPROVED HOULER FLIMACON-BAS used at the Cypstal Palace: orders received for tantomery. Marine, or Locemotive Furnaces on this plan, and also for the rights for towns, countries, or tastes: certificates can be shown of furnaces in use for tationary, marine, and locomotive furnaces, with sa-ring from 30 to 50 per cent. In fuel. J. AMORY, 2507 General Agent. 28 State st. Baston, Mass.

A. FAY & CO., Worcester, Mass., Iluiders of Daniel's Planers, with impr vements, and Matching Machines with carriage, to joint and match parallel or taper.

NORCROSS' ROTARY PLANING MASSILINE.

It has been affirmed by a decision of the Scheme Court of the U. 8, that the Norcross Patent does not intringe the Woodworth machine. Having obtained, the above decision in my favor, I now offer to the public my machines and the right to use them. And I have no chesitation in saying that they are much superior to sny other planing machine in use. I obtained medals at the Fair in Boston, and at the American Institute in New York, for the best planing in competition with the best Woodworth machines. And now that the question of infringement is settled by the highest authority, the public can have them at a fair price. They are not only the best machines ever invented, but the safest—the life of the operator isnot endangered as with other machines, which consideration alone is worth four-fold what I ask for the right to use them.

N. G. NORCROSS.

m. N. G. NORCROSS. 24 6* Lowell, Mass., Feb. 11th, 1854.

REAT IMPROVEMENT IN STEAMENGINES
W-Tremper's Patent Spherical Gover nor & Fnel Economiser. This Regulator and Economiser will do more work with a given amount of steam than otheriknown mode without expensive cut-offs expansion valves or other complicated fixtures, no change of motion to interfere with the most delicate work in any case, and being both a regulator and steam economiser at a nominal expense: warranted to supersede by far all others, or he money returned.

35° Highland Iron Works, Newburgh, N. Y.

.......

UNITED STATES PATENT OFFICE. Washington, Feb. 16. 1854.

UNITED STATES PATENT OFFICE.

Washington, Feb. 16. 1854.

ON THE PETITION of Samuel F. B. Morse, of or a patent granted to him on the 20th of June, 1840, for an improvement in mode of communicating information by signals, by the application of electro-magnetism, for seven years from the expiration of said patent, which takes place on the 20th day of June, 1854—

It is ordered that the said petition be heard at the Patent Office, on Monday, 22nd day of May next, at 12 o'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 apposing 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 acceptance with the rules of the office, which will be furnished on application.

Ordered, also, that this notice be published in the Union, Intelligencer, and Evening Star, Washington, D. C.; Pensylvanian, Philadelphia. Pa.; Scientific American, New York; and Inquirer, Cincinnati, Ohio, once a week for three successive weeks previous to the 22d of April next, the day of hearing.

CHARLES MASON,

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.

CIPERIOR MACHINISTS' TOOLS CARPEN-TER & PLASS, corner of Sester-saft Phase the sts, and 46 Ephidga are now finishing a lot of their superior tools, and can furnish at short notice; lathes of 8, 10, 12: 16, or 21 feet lengths, and swinging from 14 to 26 inch-es diameter. Also upright Drills, suitable for any size hole less than one foot; also on hand one hand lathe with slide rest and wood shears, 20 feet long, swing 25 inches, nearly new; price \$300. Also one patent togge joint binders Standing Press; price \$900.

AATEB—A second hand Steam Engine, of 10 or 15 horse-power, with all the fixtures complete. Must be hut little used, and in good order. Address JOHN WHITLOCK, Birmingham, Ct. 245

TKINS SELF-RAKING REAPER.

TKINS' SELF-RAKING REAPER. 46 of these A machines were used the last barvest in g ass or rain or both, with almost uniformly good success, in rine different States and Canada. Twenty-six premituos, including two at the Crystal Palace, (cliver and broaze medals,) were swarded it at the autumn exhibitions. I am building only 300, which are being rapidly ordered. Mr. Joseph Hall, Rochester, N. Y., wil also build a few. Early orders necessary to insyre a reaper.

Price at Chicago \$175-\$75 Cash with order, nets for 550, payable when reaper works successfully, and nother of \$60, payable when reaper works successfully, and nother of \$60, payable when reaper works successfully, and nother of \$60, payable when reaper works successfully and nother of \$60, payable when reaper works successfully, and nother of \$60, payable when reaper works successfully, and nother \$60, payable when reaper works cuccessfully, and nother \$60, payable when reaper works successfully, and nother \$60, payable when reaper works are commended wanted throughout the country. Experienced agents preferred. It is important this year to have the machines widely scattered. Descriptive circulars with cuts, and giving impartially the difficulties as well as success of the reaper, mailed to post-paid applications.

J. S. WRIGHT.

ment in Shingle Machines, is unquestionably the best ever offered to the public. The undersigned is now at the West, offering right is in this machine forsale. 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 mecan do so by addressing

J.D. JOHNSON,

2ltf

Bridgeport, Ct.

B. ELY, Counsellor at Law, 52 Washington street,
Boston, will give Particular attention to Patent
Cases. Refers to Messrs Munn & Co., Scientific American.

THE WATER-CURE JOURNAL AND HERALD OF REFORMS—Devoted to Hydropathy, its Philosophy and Practice, to Physiology and Anatomy, ith Illustrative Engravings, to Dietetics, Exercise, Clothing, Occupations, Amusements, and those Laws which govern Life and Health. Publishedmonthly, in convenient form for binding, at one dollar a year in, advance, by Fowler & Wells.

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38 4

THE AMERICAN PHRENOLOGICAL JOURNAL—A Repository of Science, Literature, and General Intelligence: devoted to Phrenology, Physiology, Education, Psychology, Agriculture, Hortculture, Architecture, the Arts, and Sciences, and to all those Progressive Measures which are calculated to reform, elevate, and improve mankind. Illustrated with numerous portraits and other engravings. A beautiful quarto. Fublished at \$1 a year in advance, by Fowlers & Wells, 131 Nassau st., New York.

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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; Uck'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.

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REWARD—For an Invention to Precedents and others. In order to prevent the loss and annoyance occasioned by the ALTERATION of Bank Notes. To Chemists and others. In order to prevent the loss and annoyance occasioned by the ALTERATION of Bank Notes either by changing the name of the Bank, or the denomination of the Bill, as practiced by counterfeiters, and to progres an effectual barrier to such wactices, by encouraging the invention of materials, such as mix and paper, of a nature to afford in either or in any combination of them, the desired protection—the Executive Committee of the Association of Banks for the Suppression of Counterfeiting, will pay the sum of Five Hundred Dollars to any person who shall invent the heat mode, in the opinion of the Committee, of accomplishing the object named. All plans to be submitted to the undersigned on or before the 38th day of March next, and to be accompanied with such explanations of the materials and processes as the party applying may be willing to disclose. Each applicant to looke with the Treasurer of the Association, Henry M. Hobrook, Esq., for the term of three menths, the sum of one hundred dollars, which shall be paid to any person who chall, during that time, after, by removing and printing anew, any material portion of a bill or note prepared in accordance with the plan submitted, in such a manner that the alteration would, in the judgment of the Committee, be likely to pass unsuspected. Andif, at the end of said three months, no one hasbeen able to effects such alteration, and the Committee are satisfied that the materials proposed will stand all the tests which the present knowledge of chemistry affords, then the hundred dollars deposited by each of the other applicants to be returned to them respectively. Per order of the Exe utive Committee, J. M. GORDON, Secretary. Columbian Bank, Boston, Mass., Jan 24, 1854.

NEW HAVEN MANUFACTURING COMPANY
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Grist Mill for the term of five years, and are prepared
to furnish these superior mills at short notice. They are
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30 bushels per hour, and will run without heating, being 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 cats, prices, and further particular,
supply post-paid, as above, or to S. C. HILLS, agent N.
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LOGAN VAIL & CO., No. 9 Gold st, N. Y., are prepared
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superfor to any others in use. A Silver Medal was
awarded at the late Fair of the American Institute, and
a presenting in twith of 3100 at the Maryland State Fair,
held at Baltimore in October last. Persons writing us
by mall will be particular to give their address in full.

JOHN PARSHLEY, No. 5 and 7 Howard st., New Haven, Ct., manufacturer of Machin sts' Tools, and Steam Engines, has now finishing off 25 Engine Lathes, 6 feet shears, 4 feet between centers, 15 inches swing, and weighs about 1100 lbs. These Lath s have back and screw gear, jib rest, with screw feed, and the rest is so arranged that the tool can be adjusted to any point the work may require, without unfastening the tool, hence they possess all the good qualities of the jib and the weight lathe; they are of the best workmanaship. Price of Lathe with count shaft and pulleys, \$155 cash. Outs, with full description of the lathe, can be had by addressing as above, post-paid. Also four 30 horse power vertical Steam Engines with two cylinders. For particulars address as above.

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

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