coffin in two parts or shells, united by a flauch, substantially as set forth.

forth.

Second, The manufacture of coffins of raised or cast metal in two shells, each formed with recesses of greater or less depth, which shall respectively constitute a portion of the receptacle of the corpse, thus approximating the coffin more nearly in shape to that of the human body than could otherwise be done.

(The advantages of air-tight coffus are very manifest, but the diffi-culty of making them of metal has been the great weight of the material. This difficulty could, of course, he overcome only by making terial. This directly count, of course, be overcome only y makin the plates very thin; and it is the purpose of this invention to s fashion the plates as to combine the requisite strength with a reason able degree of lightness. The coffin is made of two shells, united by able degree of lightness. The comm is made of two shells, united by flanges extending around the coffin about midway between the top and bottom, the flanges bolted together, and the seam made all-tight by iron cement.1

Charles H. Morgan, of Clinton, and L. Whitney, Jr., and S. Priest, of Watertown, Mass. (assignees through mense-assignments of Benj. F. Rice), for an Improvement in Machines for Making Paper Bags. Patented April 28, 1857; re-issued March

Bags. Patented April 28, 1857; re-issued March 6, 1860:
I claim the machine as a whole, composed of mechanism for forming, feeding, cutting and pasting the tube or bag, combined, arranged and operating substantially as described.
I also claim the use of a supporting bar, or its equivalent, around which paper may be formed into a tube, and in connection with which has ad paper tube may be severed; each and the whole substantially as described.
I also claim giving the paper the variable feeding motion, for the purpose and in the manner substantially as described.
I also claim cutting the paper, without waste of material, into such a form as shall have suitable projections for the formation of the bottom lap or seam of the bag, and for the convenient opening of the bag at the mouth, substantially as described.

Addison Crosby, of Fredonia, N. Y., for an Improved Valve for Steam Engines. Patented August 30, 1859; re-issued March 6, 1860:
I claim the oscillating valve constructed with an opening right through it, and with two eccentric faces, and fitted to a double seat of correspondingly eccentric form, which contains opposite ports or openings that are covered and closed by the faces of the said valve whenever the said valve is in contact with the said seat, substantially as described.

D. W. Crocker, of Deposit, N. Y., for an Improvement in Railroad Chairs. Patented Jan. 25, 1859; re-

issued March 6, 1860: claim the construction of the chair, as shown and described, so the passing weight will cause the jams of the chair to gripe the a sa and for the purpose shown and described.

This invention consists in constructing a railroad chair with each jaw of a separate piece of metal, and so applying it to the rails at a joint that the downward pressure produced upon the chair by the locomotives and cars passing over the joint will tend to draw the jaws toward each other, and to make them gripe the rails more firmly thereby causing the ends of the rails to be so confined together tha they cannot be displaced vertically or laterally relatively to each other, and making a very rigid and durable joint.]

other, and making a very rigid and durable joint.]

Edward Hall and Joseph L. Hall, of Cincinnati, Ohio, for an Improvement in Fire-proof Safes. Patented August 21, 1849; re-issued March 6, 1860:

We claim, first, The employment of hydrauluc cement, in whole or in part, as forming the insulating medium or admixture used between the outer and inner cases of safes and chests, when said inner cases are formed of iron or other suitable metal, substantially as described forthe purposes set forth.

Second, Joining the outer and inner metallic cases of safes and chests by means of the door frame, c, and flange, b, or their equivalents, when said hydraulic cement, in whole or in part, is used as the insulating medium between said metallic cases, as described, and also by means of the anchors or bolts, d, extending from the outer and inner cases, and into the space between said cases, substantially as and for the purposes set forth.

Ephraim Brown, of Lowell, Mass., for an Improved Burglar's Alarm. Patented Oct. 31, 1854; reissued March 6, 1860:
I claim the making of the knob of a drawer movable, and so combining it with an alarm apparatus as to cause an alarm to be sounded whenever an attempt to open the drawer by pulling on the knob is attempted.
I also claim the combination of the latch or spring bolt or the secondary bolt, and key or lever, with the movable knob and the drawer; the same being to operate together as specified.
I also claim combining the alarm pawl, m, with the knob rod by means of a movable hanging lever, u, to be operated or moved by a stud, or its equivalent, fixed in the knob rod.
I also claim to combination of a decoy key or an auxiliary alarm-springing mechanism with an alarm-giving apparatus, its springing device and a latching or belting apparatus applied to a drawer, or its equivalent; the said decoy key or auxiliary alarm-springing mechanism, when put in motion, operating to set in movement the said alarm-giving apparatus, so as to cause it to sound an alarm, as if would be caused to do by reason of any movement of its main springing device.
I also claim connecting the decoy key with the hanging lever so as

would be caised to do by reason of any movement of its main springing device.

I also claim connecting the decoy key with the hanging lever so as
to operate as specified, also connecting the said hanging lever to the
secondary lever, so that a forward pull on the secondary lever shall
move the hanging lever so so to effect the sounding of the alarm.

I also claim the combination of the counter or numbered wheel, and
its operative mechanism, with the knobrod, the same being to exhibit the number of the attempts at opening the drawer; meahing
also to claim the so combining the operative mechanism of the counter wheel with the hanging lever that a movement of the latter will
effect a movement of the said wheel.

E. H. Augamar, of New Orleans, La., for an Improvement in Mode of Staying Piles for Wharves, Piers, &c. Patented July 12, 1859; re-issued March 6, 1860:

I claim, first, The linked frame, S.S., constructed and operating as escribed for the purpose appended. Second, In combination with piles, as described, the sleeves, a, and races, b, constructed and operating substantially as specified.

ADDITIONAL IMPROVEMENTS.

Harry H. Evarts (assignor to himself and Phineas E. Merrihew), of Chicago, Ill., for an Improved Machine for Sawing Staves from the Bolt. Patented May 27 1850.

May 27, 1859:
I claim the use of the rotating block carriage, as described, in comintous with the saw, H, as shown and for the purposes set forth in its specification.

John Huston, of Ottawa, Ill., for an Improvement in Seeding Machines. Patented Jan. 19, 1858:
I claim the arrangement of the stop har. N. shares, C. spout tube, E. slides, d.d. levers, F. G. I. rockshaft, H. Berners, M. and rollers, B. as and for the purposes set forth and described.

[The object of this improvement is to facilitate the dropping open ation or the distribution of the seed, and also to provide against the contingency of the adhering of the seed and other substances to the pressure rollers; and, further, to control the upward movement on using the machine where the plow shares are raised out of the earth.] E. H. Augamar, of New Orleans, La., for an Improve-ment in Mode of Staying Pries for Wharves, Piers, Patented July 12, 1857; re-issued March

&c. Patented July 12, 1857; re-issued March 6, 1860:
I claim, first, The constructing and arranging of the giant steam pile-driver boat and its driving frames, as and for the purpose set forch, or in any equivalent manner for the same purpose.

Second, The disgonal bracing of piles in deep water by the means directived, or by any equivalent contrivance for the same purpose, and in the manner specified (Figs. 1, 2, 3 and B).

Third, Preventing the abrasion of the soil at the foot of the piles, and between them, by the means specified by any equivalent contrivance for the same purpose (Figs. 1 and B).

Fourth, Laving down the bottom crosstie, by the means, in the manner and for the purpose specified, or by any equivalent contrivance for the same purpose.

Fifth, The combination of the whole arrangement and modus operand, as described and specified, or any equivalent arrangement for the same purpose.



J. W. S., of Conn .--- We do not know what pressure of the carbonic acid gas is employed for charging the dough by the company which makes effervescent bread. About seven pounds on the square inch should be sufficient for the purpose

W., of C. W .--- The application of brakes, by which the wheels are arrested from revolving and made to slide on the rail, is the most efficient for quick stoppage, but is most de, structive of the permanent way. This action of brakes, we believe ost safe because the most efficient

J. N. H., of Ga.---We have heard of California yeastmoss, but have never seen any ofit. If you have any of it send us a sample, so that we may call attention to its peculiar qualities.

N. A. P., of N. C .--- The sulphate of zinc is not so poisonous as the sugar of lead. Brown japan is made with copal varnish, colored to the shade you desire. Gum shell-lac must be variant, confect to the state you casele. Our shell are thus be heated until fusion takes place, then boiling linseed oil is poured upon it, so as to make an oil varnish. Gum copal is better, how-

A. Y., of N. J.--It is allowable to make a model or machine in England of any patented invention and bring it to this

E. L. P. and T. A. L., of N. Y .-- If you cast the bars of your fire grates with a groove in the upper surface of each, they will endure much longer and will not warp so readily. If casthollor and the feed waterto your boller allowed to flow through them, they will last three times longer and save considerable fuel by the extra heat imparted to the water.

M. R. L., of Tenn .--- A drop of clear glass, like a bead, carefully set in a lead or brass plate, will make a very good single microscope. A drop of any transparent gum, or pure water, if you could set it, would answer the same purpose. The small hole made in a dark colored sheet of paper with the prick of a pin is also a microscope, and enlarges objects. You do not require to take insects to pieces, unless for dissecting purposes, when examining them with a microscope. We are much mistaken if you do not make a very good microscope with these instructions

A. K., of Ill.-We do not believe there is any loss of power (aside from that of friction) occassioned by what are called the "dead points" in the crank motion. We have been frequently told there was about 21 per cent of power thus lost, but when we asked the question "Where does it go?" it always struck the person inated dumb as an oyster.

W. S. M. D., of Mass.-We have seen coal oil that was perfectly odorless, and have made it so ourselves; but the process was rather expensive for common use. The method by which you have accomplished the object would be very interesting and useful information to the public if you saw fit to publish it.

H. J. B., of Pa .--- You cannot obtain a patent for depositing alloys by an electric battery, because this has been done (though not very successfully) by others. There was been done (though not very successfully) by others. There may be some point of greatvalue in your process that is patentable. We do not know of any other method of making Bunsen negative carbon plates, than by mixing the carbon with flour paste. The plates should be thoroughly dried before they are used.

D. M. B., of Ill .-- There is no peculiar work devoted to petrefactions. You will find the information you desire, we think on this subject in Lyell's "Geology."

W. J. L., of N. Y.-If any treatise on astronomy does teach that the sun passes through 3600 of the ecliptic in a tropical year it is very manifestly an error, as you say. It is 50"

S. D. S., of N. Y.—The substance which you send us is not gold, but vellow mica.

H. W. O., of Conn.-Ladders have been made to join together in sections as you suggest.

W. P. W., of ------ It is very common to exhaust steam into water for the purpose of heating the water before it is forced into the boiler

E. S. W., of Ill.—The gross pressure upon steam must be doubled to reduce its bulk one half. Steam at 50 lbs. above the atmosphere would be under a pressure of 65 lbs.; double its volume, its pressure would be 32½, and at 16½ it would occupy four times the space, provided it were confined in a close vessel. If it were allowed to escape into the open air it would expand just much as if it escaped into a vacuum

B. R., of N. Y.—Your questions are so numerous that we have not space for intelligible replies to them all. We suggest to you, as the shortest way to understand all these matters, to ake a thorough study of the sciences of chemistry and natural philosophy. You will find them very interesting.

G. H. F., of Conn.—The \$20 paid as government fee in a caveat may be applied towards the full fees in an application for a patent on the same invention at any time, even after the caveat has expired; but the amount cannot be transferred towards the government fee on any other invention than the one on which J. P. P., of Mass.—The gas which causes the "pop" in champagne is carbonic acid, generated by the decomposition of augar in the process of fermentation. The wine is allowed to ferment about 15 days, when the casks are closed with tight bungs. In the mouth of January the wine is racked off and clarified with isinglass. In May it is bottled, when about three per cent of syrup is added, made of sugar candy disclived in wine. The bottles are placed with their necks inclined downward to allow the sediment to settle in the neck, when, by a dexterous withdrawal of the cork gas. This process preceded each time by the fining operation, is sometimes repeated several times. This, accompanied by the breaking of the bottles, which not unfrequently amounts to 40 per cent, must always make champague expensive.

Money Received

Money Received

At the Scientific American Office on account of Patent Office business, for the week ending Saturday, March 10, 1860:—
C. J. F., of Iowa, \$25; II. H. A., of Iowa, \$30; C. R. A., of Conn., \$90; D. S. H., of Ill., \$25; B. W. B., of Wis., \$30; J. A., of Pa., \$30; E. B. C., of ——, —; J. H. & A. T. G., of N. Y., \$30; S. L. C. R., of N. J., \$35; M. V., of Ga., \$30; A. K., of Ill., \$15; S. S., of Mass., \$25; A. O., of N. II., \$25; J. W. C., Jr., of Ill., \$55; S. H. II., of R. I., \$30; G. F., of Ill., \$30; E. M., of N. Y., \$35; J. G., Sr., of R. I., \$30; H. & M., of Ohio, \$30; J. L. H., of N. Y., \$25; J. H., of Ga., \$35; J. M. W., of L. I., \$25; J. G. C., of N. Y., \$23; I. H., of Ill., \$35; D. H., of Mass., \$30; M. A. H., Jr., of Ill., \$30; P. C., of Conn., \$35; S. T. S., of Mass., \$30; J. C. C., of N. Y., \$30; C. & F., of Cal., \$55; G. W. B., of Mass., \$30; J. C. C., of Conn., \$25; C. A. B., of V., \$30; D. J. V., of Ill., \$25; W. & T., of Ill., \$30; E. H. B., of N. Y., \$30; H. A. H., of N. J., \$30; A. S. & D. M., of Ill., \$30; D. T., of Mass., \$10; F. A., of Mass., \$30; J. M. H., of Cal., \$20; G. K. B., of N. Y., \$25; J. L., of N. Y., \$25; S. T. McC., of Ga., \$30; H. A. J., of Mo., \$35; J. R. M. B., of V., \$30; J. L., of N. Y., \$35; A. L., of N. Y., \$30; H. A. J., of Mo., \$35; A. M. B., of V., \$30; J. L., of N. J., \$30; W. S., of Ill., \$25; D. M., of N. B., \$12; S. McG., of Iowa, \$25; G. S., of Mass., \$30; J. R. & S., of V., \$30; P. & McE., of Tenu., \$25; E. B. R., of N. J., \$10; A. K. T., of Mich., \$30; J. G. R., of Maine, \$30; J. W. M., of N. Y., \$30; H. W. W., of Mass., \$30; C. J., of Mass., \$30; C. J., of Maine, \$30; J. W. M., of N. Y., \$30; H. W. W., of Mass., \$30; C. J., of Mass., \$30; C. J., of Mol., \$40; D. S. McK., of N. Y., \$35; J. R., I., of Onn., \$30; E. B. W., of Ill., \$35; D. N., of Ind., \$25; F. R. L., of Onn., \$30; E. B. W., of Ill., \$35; D. N., of Ind., \$25; F. R. L., of Onn., \$30; E. B. W., of Ill., \$35; D. N., of N. Y., \$30; J. R. H., of Conn., \$30; C. J., of Mol., \$40; D. S. McK., At the Scientific American Office on account of Patent of Mo., \$40; D. S. McK., of N. Y., \$25; F. R. L., of N. Y., \$30; J. R. T., of N. Y., \$30; G. O., of N. Y., \$35; J. S., of N. Y., \$30; M. M., of Ill., \$30; J. B. S., of Tenu., \$25; J. J. U., of La., \$50; J. B. of Mass., \$30; J. H. P., of Iowa, \$30; C. H. W., of N. Y., \$42; J. G., of La., \$20; W. C. M., of N. Y., \$12.

Specifications, drawings and models belonging to parties with the following initials have been forwarded to the Patent

ties with the following initials have been forwarded to the Patent Office during the week ending Saturday, March 10, 1860:—
L. E., of Mich. (3 cases); C. J. F., of Ill.; D. McK., of N. Y.; P. M., of La.; L. H., of Ill.; W. S., of Ill.; C. H. W., of N. Y.; J. B. L., of Tenn.; A. H. S., of N. H.; C. J., of Mo.; J. L., of N. Y.; D. D., of N. Y.; I. P. F., of N. Y.; R. H., of Mass.; J. C. C., of Conn.; J. C., of N. Y.; S. M. M. G., of Ind.; T. R. T., of Ohio; J. M. W., of N. Y.; J. W. J. M. W., of J. W. J. M. W. J. M. J. J. C., of N. I.; S. M. M. G., of Ind.; T. R. I., of Olno; J. M. W., of N. Y.; J. H., of Ga.; D. J. V., of Ill.; J. S., McO., of L. I (3cases); C. S. L., of Ind.; J. L., of N. Y.; S. C. T., of Ga.; L. C. R., of N. J.; E. B. W., of Ill.; P. C., of Conn.; G. K. B., of N. Y.; S. H. H., of R. I.; A. O., of N. H.; G. F. L., of N. Y.; G. W. D., of N. Y.; R. & McE., of Tenn.; J. L. H., of N. Y.; D. N., of Iowa; A. I., of N. Y.; M. & C., of N. Y.; E. M., of N. Y.; D. S. McK., of N. Y.; I. R., of N. Y.; N. Y.

Literary Notices

THE WESTMINSTER REVIEW .- Published by Leonard Scott & Co., No. 67 Gold-street, this city.—This quarterly periodical maintains its old excellence. Among the feast of good things set before us, in the number for February, maybe mentioned the articles headed "Government Contracts," "The Realities of Paris," "Ceylon," "The Social Organism," "Sicily as it Was and Is," "Christian Revivals," "Italy and the Designs of Louis Napoleon," and "Cotemporaneous Literature."

NOTES ON NURSING.—We have received from the publishers, Messrs. D. Appleton & Co., of this city, a copy of this useful work, by Florence Nightlingale. It is full of practical suggestions as to the proper care of children and the sick, from one who has a right to speak on such subjects. The authoress signalized her heroid devotion to suffering humanity by visiting the Crimea in 1855, and attending upon the sick and wounded soldiers. We heavily commend this work, not only to professional nurses, but to all heads of families.

THE COURTSHIP AND ADVENTURES OF JONATHAN MERRED, -Dick & Fitzgerald, publishers, New York.

TEN THOUSAND WONDERFUL THINGS.—Dick & Fitz-gerald, publishers, New York.

HINTS TO OUR READERS.

To New Subscribers .- Back numbers to commence the volume.—As most subscribers to this paper desire the back numbers to render their volumes complete for binding, we shall continue to send the back numbers to January 1st (the commencement of Vol. II, new series), unless the person ordering the paper instructs us to the contrary, at the time of making the remittance. Should the person sending for the paper desire his subscription to commence at the time he makes his remittance, or at any other period, he can be accommodated, as we are constantly re-printing back numbers from our electrotype plates, and can supply as many of any number as may be desired, up to a million of copies; in fact we have printed over 70,000 copies of a single number—such has been the demand for back numbers.

BOUND VOLUME I .- Covers for Binding, &c .- New subscribers who may desire the first volume of the New Series which contains the numbers from July 1, 1859, to January 1, 1860, can be supplied with it by mail or express, handsomely bound in cloth, at the following prices:—At the office of publication, or by express, \$1.50; by mail (which includes postage), \$2; in sheets, complete, \$1. Covers may also be had separately, which answer as portfolios for preserving the papers, or for binding. Price for covers at the office, or delivered by express, 40 cents; by mail (including postage), 50 cents. For the same investment no work containing so much valuable information can be obtained as is contained in one volume of the Solentific American. Orders should be addressed to MUNN & CO., 37 Park-row, New York. Bound volumes may also be had of most all the periodical dealers throughout the country.

Rates of Advertising.

THIRTY CENTS per line for each and every insertion, payable in advance. To enable all to understand how to calculate the amount they must send when they wish advertisements published, we will explain thatten words average one line. Engravings will not be admitted into our advertising columns; and, as hereadvertisement sent for publication.

IMPORTANT TO INVENTORS.

THE GREAT AMERICAN AND FOREIGN PATENT AGENCY.—Messrs. MUNN & CO., Proprietors of TATENT AGENCY.—Messis. MUNN & CO., Proprietors of the Scientific American, are happy to announce the engagement of Hon. Judge Mason, formerly Commissioner of Patents, as associate counsel with them in the prosecution of their extensive patent business. This connection renders their facilities still more ample than they have ever previously been for procuring Letters Patent, and attending to the various other departments of business pertaining to patents, such as Extensions, Appeals before the United States Court, Interferences, Opinions relative to Infringements, &c., &c. The long experience Messis. Munn & Co. have had in preparing Specifications and Drawings, extending over a period of fourteen years, has rendered them perfectly conversant with the

paring Specifications and Drawings, extending over a period of fourteen years, has rendered them perfectly conversant with the mode of doing business at the United States Patent Office, and with the greater part of the inventions which have been patented. Information concerning the patentability of inventions is freely given, without charge, on sending a model or drawing and description to this office.

Consultation may be had with the firm, between MNE and FOUN COLOCK, daily, at their PRINCIPAL OFFICE, No. 37 PARK ROW, NEW YORK. We have also established a BRANCH OFFICE in the CITY OF WASHINGTON, on the CORNER OF F. AND SEVENTH-STREETS, opposite the United States Patent Office. This office is under the general superintendence of one of the firm, and is in daily communication with the Principal Office in New York, and personal attention will be given at the Patent Office to all such cases as may require it. Inventors and others who may visit Washington, having business at the Patent Office, are cordially invited to call at their office.

They are very extensively engaged in the preparation and securing of Patents in the various European countries. For the transaction of this business they have Offices at Nos. 66 Chancery Lane, London; 29 Boulevard St. Martin, Paris, and 26 Rue des Eperonniers, Brussels, We think we may safely say that three-fourthe of all the European Patents secured to American citizens are procured through our Agency.

Inventors will do well to bear in mind that the English law does

Patents secure of Agency.

Inventors will do well to bear in mind that the English law does not limit the issue of Patents to Inventors. Any one can take out a

not limit the issue of Taccian solutions and there.

A pamphlet of information concerning the proper course to be pursued in obtaining Patentsthroughtheir Agency, the requirements of the Patent Office, &c., may be had gratis upon application at the Principal Office or either of the Branches. They also furnish a Circular of information about Foreign Patents.

The annexed letters from the last three Commissioners of Patents we comment to the perusal of all persons interested in obtaining Patents:

we commend to the perusator an persons and the plants:—

Messrs, Munn & Co. — I take pleasure in stating that while I held the office of Commissioner of Patents, Moer Poureri or All the business of the office came through your hands. I have no doubt that the public comidence thus indicated has been fully deserved, as I have always observed, in all your intercourse with the Office, a marked degree of promptness, skill, and fidelity to the interests of your employers.

Yours, very truly,

CHAS. MASON.

CHAS. MASON.

Immediately after the appointment of Mr. Holt to the office of Postmaster-General of the United States, he addressed to us the subioined very gratifying testimonial:

Messrs. Munn & Co.:—It affords me much pleasure to bear testimony to the able and efficient manner in which you discharged your duties as Solictors of Fatents while I had the honor of holding the office of Commissioner. Your business was very large, and you sustained (and, I doubt not, justly deserved) the reputation of energy, marked shifty, and uncompromising fidelity in performing your professional engagements. Very respectfully,

Your obedient servant, J. HOLT.

Messrs.. Munn & Co..—Gentlemen: It gives me much pleasure to say that, during the time of my holding the office of Commissioner of Patents, a very large proportion of the business of inventors before the Patent Office was transacted through your agency, and that I have ever found you faithful and devoted to the interest of your clients, as well as eminently qualified to perform the duties of Patent Attorneys with skill and accuracy. Very respectfully, Your obedient servant, WM. D. BISHOP. Communications and remittances should be addressed to MUNN & CO.

Publishers, No. 37 Park-row, New York.

\$175.000 IN PRIZES.—THE PUBLISH-PRESS will present to its subscribers for the current year \$175,000 in prizes. It is the best literary paper published, and every will scriber receives a valuable prize. Let every one send for a specimen (sent fre) and judge for himself.

1* DANIEL ADEE, No. 211 Center-street, New York.

RUITS AND FLOWERS!—IF YOU WISH TO know all about caltivating fruits, flowers and vegetables, subscribe for MOORE'S RURAL NEW YORKER, the leading rural literary and family weekly. It contains more and better information relative to orchard and garden culture than any other journal in America, and should be in the hands of every owner of a garden, whether in town or country. Try it and you will see. Only \$3 a year. Specimen sent free. Address

1. D. D. T. MOORE, Rochester, N. Y.

DYEING AND CALICO PRINTING.—JOHN Wiley, No. 56 Walker-street, has just published A Practical Treatise on Deveing and Calico Printing, including the latest inventions and improvements, by an Experienced Dyer; with a supplement, bringing the work up to the present time, and containing the mostrecent discoveries in color chemistry. By Robert Macrarlang, of the "Scientific American." 1 thick Syo, vol. Plates. Price \$5. Copies mailed and prepaid on the receipt of the price.

RARE CHANCE.—FOR SALE—STATE AND county rights of McNamee's celebrated self-feeding knife pleaner, lately patented, and acknowledged by experienced patent right gentlement to be the best device of the kind patented, an engraving and description of which is given on page 72 of the present volume of the Scientific American. References given (if desired) by housekeepers now using this invaluable household article. Address 1*

STEAM AND VACUUM GAGES—WATER gages and tubes, self-cleaning gage cocks, signal gongs for locomotives and steamboats. Asheroft's low water detector, indicators, steam whistles, &c. E. BROWN, No. 311 Walnut-street, Philadelphia.

END STAMPS (24 CENTS) FOR RECIPE TO make sugar of chinese cane. JAMES W. CHAPMAN, Holbert's Biuffs, Martin county, Ind. Circular of best mill and boiler known also sent.

SCIENTIFIC AMERICAN.—VOL. I. WANTED.

Vol. III. for sale; price \$3, unbound.
C. A. SHAW, Biddeford, Maine.

MACHINE BELTING, STEAM PACKING, ENGINE HOSE.—The superiority of these articles, manufactured of vulcanized rubber, is established. Every belt will be warranted superior to leather, at one-third less pric. The Steam Packing is made in every variety, and warranted to stand 300 degs. of heat. The Hose never needs oiling, and is warranted to stand any required pressure; together with all varieties of rubber adapted to mechanical purposes. Directions, prices, &c., can be obtained by mail or otherwise at our warehouse. NEW YORK BELTING AND PACKING COMPANY. JOHN II. CHEEVER, Treasurer, 112 Nos. 37 and 38 Park-row, New York,

BOILER FLUES FROM 1 1-4 INCH TO 7 INCH-es outside diameter, cut to any length desired, promptly furn-nished by JAMES O. MORSE & CO., 1 tf No. 76 John-street, New York,

TO MECHANICS AND MANUFACTURERS.—
To Let—A two-story Stone Building, 60x40 feet, with a good steam engine, at Engleswood, Ferth Amboy, N. J., two heurs' ride from New York; situated on the steamboat landing. For a manufacturer or mechanic having a neat and desirable business, liberal terms will be offered, and some capital furnished, if required. Apply to MARCUS SPRING, No. 27 Park-place, New York.

PLASTIC CARBON FILTERS—THE MOST simple, effective and reliable means of purifying water without trouble or loss of time; may be used for all domestic and manufacturing purposes, and will be furnished in various sizes, by A. G. SCHELLER, No. 26 Beekman-street, New York.

SITUATION WANTED—BY AN ENGINEER and draughtsman, with several years' experience in designing and constructing stationary steam engines, tun-burning boilers, mill machinery, &c. Bestreference, &c. G. W., York, Pa.

WATER WHEELS. — SMITH'S AMERICAN
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