

28,942.—T. C. Simonton (assignor to De Grasse B. Fowler), of Paterson, N. J., for an Improvement in Filters:

I claim the placing of the tube, D, and the plates, B, B, containing the filtering medium, G, secured as described in the case, A, as shown, in connection with the pipes, E, F, G, J, provided with the cocks, H, I, K, communicating with the case, and arranged relatively with the plates or the compartments formed thereby, to operate as and for the purpose set forth.

28,943.—J. L. Smith (assignor to himself and J. Q. Sloan), of Neoga, Ill., for an Improvement in Corn Planters:

I claim the arrangement of the seed boxes, 8, 9, slide, 10, crank, 11, lever, 12, 13, operating as described for the purposes specified.

28,944.—A. W. Sweeney (assignor to himself and C. N. Tyler), of Washington, D. C., for an Improvement in Hinges:

I claim the described hinge as a new article of manufacture, the cam, latch and catch being constructed and arranged substantially in the manner and for the purposes set forth.

28,945.—Josiah Turner and T. P. Smith, of Sunapee, N. H., assignors to themselves and Edward Burke, of Newport, N. H., for an Improvement in Cultivator Teeth:

We claim, first, The conter, A, with the indentation or recess, E, constructed substantially as described. Second, The conter, A, in combination with the concave wing, C, with the curved point, G, constructed and operated substantially as described.

28,946.—Joshua Turner, of Cambridgeport, Mass., assignor to himself and Francis Guild, of Dedham, Mass., for an Improvement in Plane-iron Sharpeners:

I claim the combination and arrangement of the separate cutter-carrier and its carriage with the whetstone supporter, with parallel ways or equivalent means of guiding the carriage, the whole being operated together substantially as and for the purpose specified.

I also claim the arrangement of bull bearings on opposite sides of the cutter-carrier, and to operate with a socket of the carriage, as specified.

I also claim making the socket or step adjustable vertically for the purpose explained.

I also claim the combination and arrangement of an adjustable stop, with the table, the cutter-carrier and its carriage applied to the table and with reference to the whetstone or its supporter, as specified.

28,947.—M. D. Whipple, of Charleston, Mass., assignor to the Whipple File Company, for an Improvement in the Manufacture of Files:

I claim, as a new article of manufacture, a file having its teeth cleared off smooth and of a uniform height, substantially as specified.

28,948.—J. A. Smith, of Fond du Lac, and Isaac Orvis, of Oakfield, Wis., administrators of the estate of L. M. Orvis, deceased, for an Improved Printing Press:

I claim, first, The arrangement of the form beds, I, J, and stationary platen, K, substantially as shown, so that the impression may be given simultaneously and by the same application of power, and the under side of the upper form be made to serve as a platen for the lower one.

Second, The arrangement of the form beds, I, J, and platen, K, with the roll of paper, O, substantially as shown, and operated respectively and intermittingly, so that the paper may be printed from a continuous sheet and at both sides during a single passage through the press.

Third, The endless wet blanket, N, arranged to pass underneath the platen, K, and to be moved simultaneously with the paper, O, for the purpose of moistening the same during the pressure which causes the paper to receive the impression from the forms.

Fourth, The ink rollers, k, k', k'', operated through the medium of the bars, h, i, arms, g, rockshaft, G, the slotted curved bar, F, and wristpin, e, on wheel, d, when said rollers are used in connection with the form beds, I, J, and platen, K, as set forth.

Fifth, The combination of the form beds, I, J, platen, K, endless blanket, N, ink rollers, k, k', k'', paper roll, O, rotary knife, R, and stationary bar, S, all arranged for joint operation as and for the purpose set to th.

RE-ISSUES.

Seligman Kakeles, of New York City, for an Improvement in Fluid Lenses. Patented April 24, 1860:

I claim, first, The application and use of a magnet, or its equivalent, in the bottom of a glass globe filled with a colored fluid, for the purpose as set forth.

Second, I claim the arrangement and combination in a lantern of a light and glass globe filled with a colored liquid, when said globe is surrounded by two reflectors facing opposite directions, and when said light is placed either before or behind the glass globe, so as to produce and reflect, by the use of only one light, a colored light in one direction and a white or colorless light in the opposite direction, in the manner substantially as described.

Thomas Mitchell, of Lansingburgh, N. Y., for an Improved Machine for Finishing Hair Brush Handles. Patented June 28, 1859:

I claim, first, The employment, in combination with the brush clamp, G, or pattern, H, or their equivalents, of a wheel, D, which is provided with V, or gouge-shaped cutters, b, or their equivalents, and which act upon the wood, substantially as and for the purposes shown and described.

Second, The combination with the pattern, H (of the brush clamp), of a supporting ledge or projection, a', or its equivalent, as and for the purpose shown and described.

Third, The combination of the guide, F, with the pattern, H, and cutter, D, as and for the purpose shown and described.

Fourth, Centering the unfinished brushes in the clamp, G, by means of the bristles, i, in connection with the strip or plate, J, and the inner curved edge, H, on its extension, H', substantially as described.

Cesar Newmann, of New York City, for an Improvement in Skeleton Hoop Skirts. Patented Nov. 1, 1859:

I claim a skeleton skirt constructed as described.

ADDITIONAL IMPROVEMENTS.

B. B. Briggs, of Sharon, Ohio, for an Improvement in Apparatus for Laying Drain Tile. Patented Oct. 4, 1859:

I claim the described ball, B, the double-acting clutches or fingers, F, F, with its trilled slide, g, and lock attachment, H, the mole attachment, as in Fig. 2, when used in combination with the rope, R, or its equivalent.

Daniel Jones, of Boston, Mass., for an Improved Steering Apparatus. Patented Feb. 21, 1860:

I claim the arrangement and combination of parts described, the same consisting in placing the athwartship screw, H, directly above the rudder post, and operating it by means of a bevel wheel fixed at its middle and bearing into a similar wheel on the after end of the shaft of the steering wheel, all substantially as set forth and shown.

J. H. Shrote, of Baltimore, Md., for an Improvement in Cutting and Panning Cakes. Patented Oct. 11, 1859:

I claim the scrap clearer, B, the annular jumble cutters, C, and the bottom, A and A', substantially as and for the purposes specified.

E. M. Smith, of Indianapolis, Ind., assignor to himself and E. G. Mayhew, of Shelbyville, Ind., for an Improvement in Molding Machines. Patented Feb. 21, 1860:

I claim the circular guide or rest, O, and the spring, Z, when constructed as and used for the purposes substantially as set forth.

Notes & Queries.

CORRESPONDENTS sending communications for publication in our columns are requested to avoid writing on both sides of a sheet of paper. This fault, though common to persons unaccustomed to writing for the press, gives great trouble to the printer (especially in long articles), and, when combined with illegibility of hand writing, often causes interesting contributions to be regretfully consigned to our waste-paper basket.

L. C., of Conn.—A rectangular knee, of the same bore, put on a vertical pipe, under any head, will involve but little if any loss of flow, and will be proportioned under all heads. With regard to horizontal pipes with elbows, there are various opinions as to the loss, but the amount is considerable. It is so easy to construct pipes differently, that it is foolish to lose any of the flow by such an arrangement.

S. R. M., of Del.—We do not know where you can obtain a work on the masonry of chimneys.

A. W. C., of Mass.—The best method of removing the stains on jewelry, caused by soldering, is by polishing with "crocus," in the usual manner.

W. S. T., of Pa.—To make black japan, take ground burnt umber, 1/2 a pound, and asphaltum, 4 ounces; dissolve them in boiling linseed oil, so that it will be about the thickness of molasses, when finished. It is now cooled and thinned with turpentine, so that it may be put on with a brush. If 2 ounces of the sulphate of zinc are added cautiously, it will dry more rapidly.

B. & C., of Md.—Fire-brick or soapstone is the best material you can employ as non-conductors above your fire-place stove. If you can make plaster-of-paris adhere, it will perhaps answer as good a purpose.

G. J., of Del.—There is no reliable rule for determining the pressure of gas in main pipes, by the pressure at the station. The best way to ascertain the pressure at any part is by the gage. You will find some useful information on this subject in another column.

J. W. R., of Ohio.—Iron can be coated with brass, by first cleaning it, then giving it a coat of tin, upon the top of which the brass will adhere. We do not know of any other good method than this for brassing iron.

H. K., of N. H.—You can dye a good brown color on wool with camwood, logwood and fustic. On cotton, a good brown is colored with catechu, sulphate of copper and bichromate of potash.

W. H. W., of Mass.—We prefer the plate to the cylindrical electrical machine, for experimenting.

G. W. F., of Ind.—The best method of polishing brass, is to scour it first with fine brickdust and very dilute sulphuric acid. Afterwards wash it with warm soft water, then rub down with fine emery and finish with tripoli or whiting.

E. G. W. R., of Ind.—Particles of steel which fly from tools and remain a long time in the flesh without rusting, are protected from the action of oxygen.

P. K., of Mich.—A globe filled with compressed air, at a pressure of 30 pounds on the square inch, is heavier than one filled with air at atmospheric pressure, and will be less buoyant in water, unless the heat of the water exceed that of the atmosphere.

E. B., of N. Y.—Any good work on hydraulics will furnish you with rules to calculate the amount of water under different heads, for different horse-powers. Under a 9-foot head the actual velocity will be 15.3 feet per second, or 918 feet per minute. A horse-power is equal to 550 pounds lifted one foot in a second. On a fall of 9 feet, 36 pounds of water falling per second is equal to a horse-power.

T. McK., of Va.—The gloss put upon shirt collars made in factories is done by pressure and friction upon curved surfaces of hard pasteboard. The linen must be pressed upon a hard, smooth surface or no gloss will be produced. Those who make it a business to dress linen have all the necessary appliances to glaze it. All kinds of cotton and linen cloth can be glazed by pressure and friction between smooth rollers; this is the way calico is calendered and glazed.

C. J. F., of N. J.—No definite speed, as a fixed standard, can be given to a circular saw. The speed at which one of any size should be driven depends on the hardness of the wood to be cut, the mode in which the saw is hung and the form and sharpness of the teeth. It is only by practice that the most suitable speed for any saw can be determined.

MONEY RECEIVED

At the Scientific American Office on account of Patent Office business, for the week ending Saturday, June 30, 1860:— N. & McN., of N. Y., \$45; E. D., of Mass., \$30; W. A. T., of Miss., \$30; L. W. N., of N. Y., \$30; J. H. S., of Ia., \$12; E. G., of Mo., \$25; P. B., of N. Y., \$25; J. B. T., of N. Y., \$30; G. B. P., of N. Y., \$150; G. H. G., of Miss., \$25; D. B., of Mich., \$10; J. F. W., of Ia., \$25; E. B. & T. S. P., of N. Y., \$25; G. L. T., of N. Y., \$30; G. W. H., of Ill., \$35; R. & W., of Iowa, \$10; J. F. F., of S. C., \$20; T. C. H., of Ga., \$25; S. D. McC., of Ky., \$30; W. & W., of Ill., \$30; C. H. L., of R. I., \$30; J. D., of Mass., \$35; R. G. H., of N. Y., \$30; F. H., of S. C., \$25; W. W. M., of Mo., \$25; O. D., of Md., \$25; F. & C., of Iowa, \$30; W. R. C., of Ill., \$30; M. E. P., of N. Y., \$30; J. M. H., of Miss., \$25; S. C. A., of Ark., \$30; V. R., of Mass., \$30; J. E. W., of Pa., \$25; W. C., of Ohio, \$30; S. A., of N. Y., \$25; L. W. T., of Minn., \$30; J. W., of Ill., \$35; E. B., of Ga., \$30; J. W. C., of N. Y., \$30; P. D., of R. I., \$55; W. T., of N. Y.

\$30; J. S. D., of Ohio, \$25; J. G. W., of N. Y., \$50; H. Y. W., of Pa., \$25; D. W. W., of Ohio, \$35; L. W., of Mass., \$30; C. P. B., of Ohio, \$30; L. H. F., of Pa., \$10; I. W., of Vt., \$25; L. P., of Mass., \$30; A. S., of N. Y., \$30; R. W. P., of Mass., \$35; J. K., of N. J., \$30; M. L. C., of N. Y., \$30; W. H. O., of N. Y., \$30; D. S., of Cal., \$20; J. O., of Conn., \$30; N. J., of N. Y., \$30; W. R., Jr., of Pa., \$50; S. L., of Vt., \$30; W. & K., of Iowa, \$25; W. H., Jr., of N. Y., \$30; H. C. D., of Mass., \$30; S. H., of Mich., \$30; S. I. G., of Wis., \$35; P. & R., of Tenn., \$35; S. A., of Mo., \$30; J. S., of N. Y., \$45; K. D. & Co., of N. Y., \$25; S. F. Van C., of Cal., \$12; G. W. L., of N. Y., \$35; M. D., of Minn., \$30; P. K., of R. I., \$35; W. S. L., of Ohio, \$10; R. T., of Iowa, \$25; A. H., of Iowa, \$25; H. & G., of Ill., \$55; R. G. H., of N. Y., \$30; A. W., of N. Y., \$25; J. F. K., of N. Y., \$25; H. E., of N. Y., \$25; M. C., of Mass., \$55; J. F. P., of Mo., \$30; W. H. B., of Conn., \$30; C. W., of Va., \$30; W. M. G., of Ohio, \$25; T. J. G., of Ill., \$25; E. W. G., of Mass., \$30; J. H. B., of Mo., \$30; A. G., of N. J., \$25; S. & G., of Vt., \$35; J. H. B., of N. Y., \$30; J. C., of N. Y., \$35; S. A. La F. & Co., \$250; G. W. L., of N. Y., \$35; D. S. H., of N. Y., \$30.

Specifications, drawings and models belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, June 30, 1860:—

J. T., of La.; A. W., of N. Y.; E. G., of Mo.; J. H. S., of La.; R. J. H., of Ohio; W. F., of Mass.; E. B. & T. S. P., of N. Y.; W. W. M., of Mo.; J. W. C., of N. Y.; G. L. T., of N. Y.; S. A., of N. Y.; S. S., of Mass.; W. M. G., of Ohio; R. T., of Iowa; T. A. G., of Ill.; J. D., of Mass.; J. H., of N. J.; J. E. W., of Pa.; W. T. Z., of Tenn.; J. M. H., of Miss.; I. W., of Vt.; P. B., of N. Y.; H. Y. W., of Pa.; K. & W., of Iowa; H. E., of N. Y.; W. B. Q., of Ill.; D. W. W., of Ohio; P. & R., of Tenn.; A. H., of Iowa; R. S., of Ill.; J. S. D., of Ohio; S. A., of Mo.; J. S., of N. Y. (G cases); J. G. M., of N. Y.; J. F. K., of N. Y.; G. H. G., Sr., of Miss.; R. W. P., of Mass.; F. H., of S. C.; W. R. J., of Pa.; K. D. & Co., of N. Y.; W. D. M., of Va.; A. H. B., of N. Y.; S. F. Van C., of Cal.; S. P. G., of Wis.; C. W., of Va.; S. & G., of Vt.; J. C., of N. Y.

SCRUBBING BRUSHES, FLESH BRUSHES, Hand Brushes, Nail Brushes, &c.—For a good valuable article, see illustration on page 400, last volume of the SCIENTIFIC AMERICAN.

THE WATER CURE JOURNAL FOR JULY, now ready, contains:—Hygienic and Drug Medication Contrasted; Diseases of the Throat and Lungs; Home Practice of the Movement Cure—Treatment of the Gout; A Family Necessity; A Homoeopathic Dose; Dr. Winslow's Experience; The Cattle Disease; Caution Between Doctors and Druggists; and much other matter useful to every reader. A NEW VOLUME commences with the present number, and now is the time to subscribe. Only \$1 a year. Address FOWLER & WELLS, No. 308 Broadway, New York.

THE SWEDISH MOVEMENT CURE—ITS HISTORY and Philosophy, with practical directions for the treatment of various diseases; illustrated with 70 engravings, forming a complete Manual of Exercises. By Geo. H. Taylor, M.D. 1 vol. 12mo, 400 pages. Price, prepaid by mail, \$1.25. Address FOWLER & WELLS, No. 308 Broadway, New York. This is the first complete work on this subject published in America. It will be found useful to all classes, in or out of the profession, and to all men, women and children.

E. D. & G. DRAPER, HOPEDALE, MILFORD, Mass., make and furnish to order Dutchers Patent Temples, the best in use for all kinds of goods; Ferrys Patent Parallel Shuttle Motions, Patent Sewers Motions for Locks, Stearns Patent Shuttle Motions, Patent Weighting Apparatus for Top Rolls to Railway Heads and Drawing Frames, Robbins Patent Shuttle Guides, Hayden & Wills Patent Drawing Regulators or Eveners, Thompsons Patent Oilers, Parkers Patent Spindle Steps, Houghtons Patent Brushes, Husseys Patent Dresser Speed Regulator.

THE PATENT RIGHT TO PUSEYS GOVERNOR, for Railroad Horse-powers, for sale.—On account of engagements which prevent me from giving it proper attention, I will sell my right and title to this valuable little Governor, now generally introduced and selling throughout the United States.

CONJURING!—THE WHOLE ART OF CONJURING made easy, with full directions for performing 150 of the most astounding feats of MAGIC, FOCUS, Sleight-of-hand, Ventri-locism and Leggerdmain; profusely illustrated. Price 15 cents; sent free by mail. Address M. M. SANBORN, Brasher Falls, N. Y.

TO SEWING MACHINE MANUFACTURERS.—Rights for sale for Goodes & Millers improved Button-hole and Over-seaming Machine, for working button-holes, eyelet-holes, ladies' embroidery, or for cording or braiding the edges of garments. It is just the thing for glove, stocking, bag, sail, awning-makers and tailors, as the sewing done on this Machine has all the appearance of a fine corded edge, or, with a change of tension, resembles braiding. It is extremely simple in construction, and not liable to get out of order. Full particulars and specimens of work sent, on application to GOODES & MILLER, No. 1,244 Olive-street, Philadelphia, Pa.

BOILER EXPLOSIONS.—NO BOILER SHOULD be without a good Steam and Water Gage. An excellent assortment of the above constantly on hand, at makers' lowest prices. All Gages accurately tested and warranted correct.

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WARREN'S TURBINE WATER WHEEL (Warren & Damons patent), manufactured by the American Water Wheel Company, Boston.—This Wheel stands at the head for great economy in water. Over 600 are now operating with great success in cotton and woolen factories, &c., &c. With its modern improvements, it cannot be surpassed. Send for our 7th annual pamphlet of 1860 (inclose two stamps), containing a treatise on hydraulics, beautiful illustrations of the Warren Turbine, practical rules for computing water-power, prices, &c., &c. It is the Wheel for the North, because it does not affect it; for the South, because it is compact and ready to attach and operate without great mechanical skill; for the world, because it generates more available power from the water used than any other Water Wheel in existence. Address A. WARREN, Agent, No. 31 Exchange-street, Boston, Mass.

LESTERS SEWING MACHINES—FOR MANUFACTURING and for family use, as good as any in the market, manufactured under legal rights from Elias Howe, Jr., Wheeler & Wilson, Grover & Baker, I. M. Siner & Co., with their combined improvements, at prices from \$50 to \$130. Large commissions allowed to local agents to purchase to sell again. Agents wanted throughout the country, and especially in the South, as this machine is to be manufactured expressly at Richmond, Va., as soon as the buildings which are now being put up are completed. Address the Lester Manufacturing Company, Richmond, Va., or J. H. LESTER, No. 87 Pearl-street, Brooklyn, N. Y.

CONSOLIDATION OF THE "AMERICAN" AND "NATIONAL" STEAM GAGE COMPANIES.—The "National Steam Gage Company" hereby give notice to their friends and the public that, having made mutual arrangement with the "American Steam Gage Company," whereby the whole business of the two companies has been consolidated, all orders for gages heretofore made by the "National Steam Gage Company," under the patents of E. G. Allen, should be addressed hereafter to the "American Steam Gage Company," they having, by assignment, become the exclusive owners of said patents, and the rights to manufacture under them. Thanking our numerous friends for their generous patronage extended to us, we assure them that all orders addressed to the "American Steam Gage Company," for instruments heretofore manufactured by us, will be filled promptly, and with gages made in a style and finish equal to those heretofore made.

N. HUNT, President. E. G. ALLEN, Superintendent. A. N. CLARK, Treasurer.

The American Steam Gage Company will continue to manufacture the "Bourdon" Gage, and T. W. Lane's improvement" on the same, as heretofore, and also all instruments heretofore made by the "National Steam Gage Company," under the various patents of E. G. Allen, and trust that their extended facilities for manufacturing will enable them to fill all orders in the best style of workmanship and finish. All orders for gages heretofore made and sold by the "National Steam Gage Company," under the patents of E. G. Allen, should hereafter be addressed to the "American Steam Gage Company," No. 4 Charlestown-street, Boston.

W. P. NEWELL, President. S. T. SANBORN, Treasurer. H. K. MOORE, Superintendent.

1 2*

\$4,500 REWARD TO INVENTORS!—THE undersigned, on behalf of a committee appointed by the merchants and others of New Bedford, Mass., hereby offer the following premiums for the best stand and portable hand lamps, designed to be used for the burning of manufactured whale oil:

- For the best stand lamp.....\$3,000
For the second-best stand lamp..... 1,000
For the best portable or hand lamp..... 200

All lamps offered for the premiums must be submitted to the committee at New Bedford, on or before the 30th day of August, 1860. The committee reserve the right to test all lamps submitted to them, and to reject all if, in their judgment, no one is deemed worthy of acceptance. They also will require the inventor to secure Letters Patent for the inventions which may be approved by them, if they deem it expedient, and to place the same, by proper assignment, under the control of the committee, upon such terms as may be agreed upon between them. JOSEPH GRINNELL, Chairman. MATTHEW HOLLAND, Secretary.

BACK NUMBERS.—IMPORTANT TO PATENTEES AND ADVERTISERS.—Back numbers of the SCIENTIFIC AMERICAN can be furnished to new subscribers who desire them. Every number of the paper is electrotyped, and therefore any QUANTITY of ANY NUMBER issued since the commencement of the "New Series" can be furnished at the office of publication, and at most of the periodical stores throughout the country. Patentees whose engravings have appeared in these columns cannot make their inventions known to the trade, in their respective line, better than by purchasing a large number of copies of the paper containing their engraving, and circulating them among their friends and the dealers. The wholesale price charged for one hundred copies of the SCIENTIFIC AMERICAN is but little more than the cost of as many handbills or circulars, while the benefit derived from circulating the paper containing the illustration will be found to far surpass the distribution of handbills or any other mode of advertising. Address MUNN & CO., Publishers, No. 37 Park-row, New York.

AIKEN KNITTING MACHINE COMPANY, NO. 429 Broadway, New York, sole proprietors of J. B. Aiken's family and plantation knitting machines. Extremely simple, profitable and durable. Satisfaction guaranteed to all. Send in your address, every one, and full particulars will be sent to you, with illustration of machine, gratis.

C. L. GODDARD, AGENT, NO. 3 BOWLING Green, New York. Only Manufacturer of the Steel Ring and Solid Packing Burring Machines and Feed Rolls for Wool Cards, &c.

BURNELL'S PATENT ROTARY PUMP—adapted to all purposes of pumping, from the well and cistern to the steam fire-engine. The most simple, durable and efficient pump yet made. Principal sales depot at No. 23 Platt-street, New York. [13*] SAMUEL B. LEACH.

H. DAWSON & SON, MANUFACTURERS OF all kinds of spring knitting needles, Cohoes, N. Y.—Having lately increased our facilities for manufacturing, we shall be able to fill all orders with promptness, from the very best wire, made expressly for spring needles. Address H. DAWSON & SON, Cohoes, N. Y. [14*]

WANTED—A SITUATION, BY A MAN OF industrious and steady habits, who is capable of taking charge of a machine-shop, or of superintending the erection of mills and machinery for the same. Address MACHINIST, Harrison-square, Mass. References exchanged. [12*]

TO MANUFACTURERS.—CONANT'S PATENT let-off motion for looms or warp-regulator is applicable to old and new looms, from the lightest to the heaviest fabric, perfectly reliable, and the only device known by which a uniform tension of the warp, irrespective of the diameter of beam, can be secured. Satisfaction guaranteed. Send for a circular to H. CONANT & CO., Willimantic, Conn. [15*]

SECOND-HAND SLIDE LATHES, UPRIGHT drills, iron planers, slotting machines, Dick's No. 1, power punching machine, suspension drills, scroll chucks, vices, &c.; also a Woodworth planer, Daniel's planers, power-mortising machine and tenoning machine. These tools are in good order, have been used in a large shop now giving up business, and will be sold at a bargain for cash or approved paper. For particulars, address CHAS. J. SMITH, No. 135 North Third-street, Philadelphia, Pa. [14*]

WOODWORTH PLANING MACHINES FROM \$80 to \$150.—Sash-molding, tenoning and mortising machines at low prices. For sale at the Philadelphia Machinery Depot, No. 135 North Third-street. [13*] CHAS. H. SMITH.

SEWING MACHINES.—NEEDLES of a SUPERIOR quality on hand, and made to order by JOSEPH THORNE, Manufacturer, No. 6 Howard-street. [12*]

THE MASSACHUSETTS CHARITABLE MECHANIC Association respectfully announce to the public their ninth exhibition of American manufactures and mechanic arts, to be opened at Faneuil and Quincy Halls, on Wednesday, the 12th of September, in the city of Boston. Communication from those who wish more particular information, and from those who will require much space, may be addressed to the subscriber. [16*] JOSEPH L. BATES, Secretary.

NOTICE.—TO MANUFACTURERS OF WOOD LATHES.—Wanted, lathes for turning handles for axes, picks, hatchets, &c. Address, with full particulars, E. & S., Box 316, Trenton, N. J. [12*]

IMPORTANT TO MECHANICS.—THE VARIETY MOLDING MACHINE.—This machine is a combination of six patents, and superior to all others for shaping, planing and molding irregular forms; also straight molding and planing. It is simple and safe to the operator. See illustration on page 329, Vol. I. of the SCIENTIFIC AMERICAN. Send for circular. Address S. M. HAMILTON, Baltimore, Md. [13*]

SWISS DRAWING INSTRUMENTS.—OF EXTRA fine finish, in single pieces or made up in sets to suit the customer. Illustrative sheets of the instruments in full size, sent by mail free. JAMES W. QUEEN & CO., No. 924 Chestnut-street, Philadelphia, Pa. [13*]

RIGHTER'S IMPROVED PORTER BOX.—PATENTED June 5, 1860. State rights for sale. Address GEORGE W. RIGHTER, No. 728 North Twenty-second-street, Philadelphia, Pa. [12*]

BURNHAM'S IMPROVED JOUVAL TURBINE water wheel (patented Feb. 22, 1859) and mill gearing of the latest improved patterns. Manufactured by N. F. BURNHAM, Variety Iron-works, York, Pa. [13*]

MACHINERY.—S. C. HILLS, NO. 12 PLATT street, New York, dealer in Steam-engines, Boilers, Planers, Lathes, Chucks, Drills, Pumps, Moulding, Tenoning and Sash Machines, Woodworth's and Daniel's Planers, Dick's Punches, Presses and Shears; Cob and Corn Mills; Harrison's Grist Mills; Johnson's Shingle Mills; Belting, Oil, &c. [23*]

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