

and slotted bottom, D, arranged with the slotted plates, E, with their rollers, H, for the vertical adjustment of the mold frame, F, provided with its knives, I, all constructed and operating as and for the purposes set forth.
72,422.—MANUFACTURE OF CORRUGATED BELLS.—George S. Saxton St. Louis, Mo.
I claim the bell, A, when it is formed in corrugations, substantially in the manner and for the purpose set forth.

72,436.—BORING-TOOL.—Albert Wippo, Chicago, Ill.
I claim the above described tool for shaping the ends of the legs of furniture, constructed to operate substantially in the manner and for the purpose set forth.
72,437.—STOVE-PIPE DAMPER.—G.B. Wiseman, Sycamore, Ill.
I claim a damper, B, provided with a sliding rod which has a cylindrical and two or more rectangular portions, constructed substantially as and operating in the manner set forth.

the following Patents, with new claims as subjoined. Parties who desire to oppose the grant of any of these reissues should immediately address MUNN & CO., 37 Park Row, N. Y.
62,808.—MANUFACTURE OF BOOTS AND SHOES.—William N. Ely, Stratford, Conn., assignee by mesne assignments of Francis D. Ballou Abington, Mass. Dated Jan. 10, 1860. Application for reissue received and filed Dec. 5, 1867.
I claim attaching by sewing mechanism the welt sole or welt strip of leather etc., to the upper of boots and shoes, substantially as described.

Advertisements.

The value of the SCIENTIFIC AMERICAN as an advertising medium cannot be over-estimated. Its circulation is ten times greater than that of any similar journal now published. It goes into all the States and Territories, and is read in all the principal libraries and reading rooms of the world.

RATES OF ADVERTISING.
Back Page.....\$1.00 a line.
Inside Page......75 cents a line.
Engravings may head advertisements at the same rate per line, by measurement, as the letter press.

\$10 A Day for all. Stencil tool, samples free. Address A. J. FULLAM, Springfield, Vt.

MOLDING CUTTERS Made to Order.—Send for circular to WM. H. BROWN, 44 Exchange st., Worcester, Mass. 1 eow18

Vises! Vises! Vises! THE UNION VISE CO., of Boston, Mass., make Vises of all kinds for heavy or light work. Their Pipe Vises, with a without extra jaw, are equal to the best of any other. Send for price list. For sale by dealers in hardware. 1 5-D.

ENGINE LATHES, A Specialty, from new patterns of superior style and workmanship. Machinery Tools General, 15th st. and Pennsylvania Ave., Phila., Pa. HARRINGTON & HASKINS. 1 13

NOTICE.—To

“ALL MEN WHO USE PLANE IRONS.” We hereby authorize all “Hardware Dealers” to allow their customers to try our “Clover-Leaf Plane Irons,” and, if not perfectly suited, take them back, refund price paid, and charge irons over to us.

We want Mechanics and Dealers to Run no Risk in Buying our Plane Irons. See that our TRADE MARK REYNOLDS, BARBER & CO., Steel Tempering Works, Auburn, N. Y. 1 13eow]

PATENT Water Proof Roofing, BESTING & HARNESS PAPER, send Stamp for Circular and Sample of the Paper. C. J. FAY & CO., 21 & Vine Sts., Camden, N. Jersey. 1 31s-1, 5, 10

TO CAPITALISTS.—Phelps's Patent Strainer Faucet, a most valuable invention. Europe for sale cheap. For particulars address JOHN PHELPS, Owego, Tioga county, N. Y., where they are manufactured. 1 2

A BUSINESS TO GET RICH.—Wanted a new Patent Manufactory.—Feather Flowers—a Partner with Capital. Also, to rent, the use of this patent. T. E. SCHMIDT, Hoboken, N. J. 1 2

500 AGENTS WANTED TO SELL HOWE'S BITTERS warranted to cure Malignant Agues, Excoriating Sciatica, Terrible Biliousness, HOWE'S SIRUP—Cures Horrid Cancers, all Blood, Liver, and Skin Diseases. Price 1 per bottle. Good Agents make \$20 per day, or 100 per cent. For particulars address C. B. HOWE, Proprietor, Seneca Falls, N. Y. 1 3

Metal Back Advertising Cards, A new and attractive mode of advertising any kind of business, Patent Medicine, etc.



Address J. H. WHITE, Manufacturer, NEWARK, N. J.

JENNINGS'S REVERSIBLE SPRING Bed Bottom. Simple, Cheap, Efficient, Noiseless, Durable. The rich man's spring for comfort, the poor man's for economy.—Rev. W. M. Richards, Berlin City, Wis. For Rights, address S. C. JENNINGS, Wautoma, Wis. 1 2

POWER PUNCHES AND SHEARS; Power Rotary Shears; Power Straw Cutters; Vertical Drills, etc. Address GREEN & CO., Indianapolis, Ind. 1 4

ALCOTT'S CONCENTRIC LATHES.—For Room, Hoe, and Rake Handles, Chair Rounds, etc., and all other kinds of Wood-working Machinery, for sale by S. C. HILLS, 12 Platt st., New York 1 4

NEW VOLUME.—Look out for the January Pictorial Double Number of the ILLUSTRATED PHRENOLOGICAL JOURNAL, with portraits of Kings, Queens, and Emperors; also of Patrick Henry, Edward Everett, F. W. Robertson, and others; including “Signs of Character; Races of Men; Science of the Soul; Social Relations, Love, Courtship, and Marriage; Education and Self-Improvement; Choice of Pursuits, with other matters all ought to know, to be found in no other publication. Only \$3 a year, or 30 cents a number. Address S. R. Wells, No. 389 Broadway, New York. 1 2

AGENT WANTED IN EACH COUNTY. Highest Premium at Great Fair American Institute, 1867. Brown's Combined Carpet-Stretcher and Tack-Drawer Stretches and Tacks Carpets simultaneously, without stooping, bruised fingers, side aches or lame backs. Uses any kind of tack. Brown's Tack-Drawer accompanies the Driver. Send stamp for circulars. G. E. HARDING, 726 Fway, N. Y. “Operated with as little effort as the subsequent sweeping of the carpet. The Tack-Drawer extracts the tacks as easily.”—Sci. American. “Putting down Carpet becomes a light and elegant amusement, besides saving the labor of one person.”—N. Y. Tribune.

FOR SALE—A Toy Steam Engine, price \$16, cost \$50. Just the thing for a Holiday Present Address Box 537, Gloucester, Mass.

AMERICAN TWIST DRILL CO., North Blackstone, Mass., formerly of Lowell, manufacture and offer for sale all sizes Twist Drills. P. O. address Woonsocket, R. I.

Iron Bridge Builders ARE HEREWITH INVITED TO OFFER Plans and Proposals, of the most approved patterns for an IRON DRAW BRIDGE of 180 feet in length, across the Milwaukee River, at the foot of Huron st., in the City of Milwaukee, and all parties who are desirous to make such offer are hereby notified that the undersigned will receive and consider such plans and proposals at his Office until the 8th day of January, on which day the same will be submitted to the Joint Committee on Bridges for their opinion. FREDRICK WILMANS, Controller City of Milwaukee. 1 2