

matic lifter, i, by which the plate is raised off the punch, substantially as and for the purpose herein shown and described.

70,907.—MAIL BAG.—Luther M. Sims, Lincoln, Ill.
I claim the case, C, constructed and used with the bag and its flap, a, substantially in the manner and for the purpose set forth.

70,908.—CARRIAGE JACK.—Joshiah B. Small, Boston, Mass.
I claim my improved carriage jack, as constructed with its notched lifter or slider, arranged with guide posts in manner as described, and as having two toggles and a forked lever, and a stop, h, thereof, arranged and combined together, and with one of the posts, in manner as specified.

70,909.—COOLING AIR AND OTHER SUBSTANCES.—Daniel E. Simes, Washington, D. C.
I claim, 1st, Atomizing liquids, by means of a fan-blower, substantially as described.
2d, Cooling air or liquids, substantially as set forth.
3d, The devices or their equivalents, substantially as set forth, for cooling air and liquids.

70,910.—ELASTIC PACKING FOR THE JOINTS OF DOORS, LIDS, AND THE LIKE.—Daniel E. Simes, Washington, D. C.
I claim, 1st, An elastic tube, having a flange, lug, or plate, or more than one of either, or their equivalents, substantially as herein described, and for the purpose set forth.

70,911.—CAR BRAKE.—Charles Spofford (assignor to Charles Spofford, Walter E. Hawes, Charles Hersey, and Francis C. Hersey), Boston, Mass.
I claim the eccentric gear, M N, when used with mechanism for operating the cranks of railroad cars, etc., substantially as described.

70,912.—MACHINE FOR PRESSING BONNETS.—Solomon Squier, and Horace Squier, Monson, Mass.
I claim, 1st, The combination of the jointed presser, F, pressure-bars, L, pressing-frame, A C D E, block, B, heater, b, suspension rod, G, lip plates, m, n, and supplementary heaters, h, h, as herein described, for the purpose specified.

70,913.—FISH HOOK.—Elisba Sterling, Cleveland, Ohio.
I claim the combination and arrangement of a series of foraminated water troughs, w, w, with an inclined vibrating table, T, having openings, o, o, and ledges, l, l, substantially as and for the purpose set forth.

70,914.—GOLD SEPARATOR.—William C. Stiles, Nevada City, Cal.
I claim, 1st, The arrangement of the openings, o, o, protected by screens, s, s, and ledges, l, l, upon an inclined vibrating table, T, having a series of transverse ledges, l, l, for the purpose of separating the gold dust from dirt, substantially in the manner as described.

70,915.—VENTILATING DEVICE FOR BOOTS AND SHOES.—Amos Stocker, Watertown, N. Y.
I claim, 1st, The instrument seen in figs. 5 and 6, letter, C, in combination with a boot or shoe.
2d, I also claim the extra inside, with its spring or springs, in combination with the valve, as seen in fig. 6, letter, C, substantially as described, and for the purpose set forth in the specification.

70,916.—GRINDING MILL.—Giles M. Stone, St. Louis, Mo.
I claim the adjustable roller, B, operating in connection with the front edge of the chute, C, for the purpose of grinding the lumps which pass between the upper rollers before reaching the second rollers, as herein shown and described.

70,917.—MACHINE FOR FLANGING AND WIRING METALLIC PLATES.—Orson W. Stow, Plattsville, Conn.
I claim the combination, as well as the arrangement, of the adjusting screw bearing, L, with the rocker-shaft, K, and the roller-shaft, C, its shoulder, B, and clamp-nut, M, or their equivalents.

70,918.—HARVESTER.—A. W. Tucker, Waxahachie, Texas.
I claim suspending the finger bar and its appendages from a curved beam, D, pivoted to the rear of the frame of the machine, and adjustable in any desired position, as set forth, so as to set the finger bar at any desired height, in combination with the pivoted extension, E, of the finger bar, and the chain and lever, h, all being constructed, arranged, and operated in the manner and for the purpose set forth.

70,919.—FAUCET.—John E. Tucker, Boston, Mass.
I claim a faucet, composed of pipe, B, with stem, C, and plug, D, with its grooves, e, pipes, G, and A, and packing-ring, E, all constructed, arranged, and operating in the manner as and for the purposes set forth.

70,920.—MODE OF PREPARING CLOTH FOR RECEIVING LITHOGRAPHIC AND OTHER IMPRESSIONS.—Charles Volkmar, Jr., New York City, assignor to himself, Wm. P. Myers and Thomas Hedden, Baltimore, Md.
I claim the process for preparing cloth for receiving lithographic, photographic, or other impressions, substantially as described.

70,921.—SELF-CLOSING HINGE.—Caspar Vetter (assignor to himself and Peter Schneider), Cincinnati, Ohio.

I claim, 1st, The combination, with a self-closing door, or shutter hinge, operating by gravitation and by a spring, substantially as shown, of the angular or non-circular top or head, B, and socket, K, permitting the door, when mounted, to gravitate to any desired position, as described.

70,922.—GUIDES OR CLAMPS FOR HARNESS FRAMES.—Adolph S. Villev, Lancaster, Pa.
I claim the protecting guides, formed of strips, A B, with blocks or ends, C, arranged substantially as shown and described, for the purpose specified.

70,923.—SCREW DRIVERS.—T. D. Voorhees, Easton, Pa.
I claim the rotating thimble, C, with the flange, D, when applied to a screw driver, substantially as and for the purpose set forth.

70,924.—GRATE COMBINATION.—John Wallace, Louisville, Ky.
I claim the semi-circular tile, B, and grate, A, when the same are constructed and combined substantially as described and for the purpose set forth.

70,925.—PAPER RULING MACHINE.—Edmond A. Warren, Brooklyn, N. Y.
I claim, 1st, The rotating cylinder, C, provided with shafts, D D, having fingers, E, to grasp the sheets of paper to be ruled in connection with the pen-beam, O, provided with pens, G, and all arranged to operate in the manner substantially as and for the purpose set forth.

70,926.—WAGES INDICATOR.—Windsor N. White, Winchendon, Mass.
I claim the said wages indicator, or combination and arrangement of the cylinder, divided and marked substantially as described, with the slotted case or its equivalent, and the scale applied to such case, as set forth.

70,927.—CHIMNEYS.—A. S. Whittemore, Willimantic, Conn.
I claim the combination of a tile chimney, or flue, A, with an air pipe, C, the latter encompassing the former, and communicating with the external air and the compartments within the building, substantially as and for the purpose specified.

70,928.—AXLES AND AXLE BOXES.—David Wigger, New York City.
I claim, 1st, The rings, c, d, fitted within the journal box, in combination with the collars, e, f, on the journal, Ax, substantially as and for the purpose specified.

70,929.—SELF-SETTING GAME TRAP.—Alfred Wilkin, McConnellsville, Ohio.
I claim, 1st, The combination of the shaft, B, operated by a spring or weight, arms, D, short lever, E, and lever, G, with each other, for the purpose of setting and tripping the trap, substantially as herein shown and described.

70,930.—BELT FASTENER.—David Wigger, New York City.
I claim, 1st, The plates, B B', when firmly secured to the ends of the belt, and when shaped as described, so that they can only be disengaged by moving the ends of the belt aside, substantially as herein set forth.

70,931.—LANTERN.—Moses B. Wright, Meriden, Conn.
I claim the perforated metal cap, D, top, a, chimney, C, shell, B, and perforated metal band, a, all combined in the manner substantially as set forth.

70,932.—DICE BOX.—Justus E. Zender, New York City.
I claim, 1st, As a new article of manufacture, a hand dice box made of metal, substantially as and for the purpose specified.

3d, I claim the pin, i, in combination with the packing, k, all made and operating substantially as and for the purpose herein shown and described.

[NOTE.—FIFTY-ONE patents in the above list were obtained through the Home Office of the SCIENTIFIC AMERICAN.—EDS.]

PENDING APPLICATIONS FOR REISSUES.
Application has been made to the Commissioner of Patents for the Reissue of 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.

66,372.—CLOTHES WRINGER.—C. H. Knox, Mount Pleasant, Iowa. Dated July 2, 1867. Application for reissue received and filed Oct. 31, 1867.
1st, I claim the double cog wheel, P, and double pinion, S, substantially as set forth.
2d, The combination of Cog wheel, P, and pinion, S, with rollers, D D, substantially as and for the purpose set forth.

26,327.—NURSING BOTTLE.—Milo S. Burr (assignee by mesne assignments of Francis J. La Forme), Boston, Mass. Dated Nov. 29, 1859. Application for reissue received and filed Oct. 30, 1867.
I claim my said improved nursing bottle, having its body, A, composed of glass or other suitable material, and provided with an elastic nipple or mouth piece, f, and a flexible or pendulous tube, C, applied thereto substantially in manner and so as to operate as and for the purpose set forth.

68,998.—OVERSHOE.—Henry G. Tyer, Andover, Mass. Dated Sept. 3, 1867. Application for reissue received and filed Oct. 30, 1867.
I claim a boot or shoe constructed with an elastic gore or cores of vulcanizable material, when the said gore is inserted into the shoe before vulcanization and during the process of construction, and the whole completed by vulcanization substantially as set forth.

63,770.—CENTRIFUGAL MACHINE FOR DRAINING SUGAR AND OTHER SUBSTANCES.—David M. Weston, Boston, Mass. Dated April 9, 1867. Application for reissue received and filed Nov. 2, 1867.
1st, In the construction of centrifugal machines for separating liquids from other substances, I claim suspending such machines at the top by flexible connections operating substantially as described.

57,006.—GAS MAINS.—I. N. Stanley, Brooklyn, N. Y. Dated Aug. 7, 1866. Application for reissue received and filed Nov. 2, 1867.
I claim an improvement in hydraulic mains for gas works, the combination with the main C, of the external supply tubes D, cast with or made separately from and attached to the main, and communicating with the same below the water or fluid therein, substantially as and for the purpose herein set forth.

34,088.—BASKET.—Lansing Marble and Townsend North, Vassar, Mich., assignees of Laing Marble aforesaid. Dated Jan. 7, 1862. Application for reissue received and filed Nov. 2, 1867.
1st, I claim a basket formed of two series of overlapping splints, A A', substantially as described, and fastened in any suitable manner.
2d, Fastening hoops, a a', and C C, in combination substantially as and for the purpose described.

2,847, whole No. 33,851.—GANG PLOW.—Wm. B. Ready, Sacramento, Cal. Dated Dec. 3, 1861. Application for reissue received and filed Nov. 1867.
1st, I claim the curved beams, A, when used in connection with a gang plow, or a series of plows connected together by cross bars, B B B, constructed and operating as and for the purposes herein set forth.

56,189.—HORSE RAKE.—George Deal, Wilmot, Ohio. Dated July 10, 1866. Application for reissue received and filed Nov. 6, 1867.
I claim the combination and arrangement of the hinge arm, I, I, adjusting screws, H H, or their equivalents, tooth roller, D, and rake teeth, L L, substantially as and for the purpose herein specified.

[NOTE.—The above claims for Reissue are now pending before the Patent Office and will not be officially passed upon until the expiration of 30 days from the date of filing the application. All persons who desire to oppose the grant of any of these claims should make immediate application to Munn & Co., Solicitors of Patents, 37 Park Row, N. Y.]

REISSUES.

2,797.—MACHINE FOR BOLTING AND CLEANING CLOVER SEED.—John C. Birdsall, South Bend, Ind.
I claim, 1st, The combination in a machine for threshing and hulling clover seed, of the bolts, A A', with the cranks, D E E, guide rods, F F, arms, G G H H, and connecting rods, B B', or their equivalents, in the manner and for the purpose set forth.

2,798.—PITMAN CONNECTION FOR HARVESTERS.—Hiram L. Wanzer, New York City.
I claim, 1st, Connecting the pitman, B, to the pitman wheel, A, of a harvester, by means of a round or polygonal pin, a, having an eccentric projection, d, and made substantially as and for the purpose herein shown and 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. We invite the attention of those who wish to make their business known to the annexed rates. A business man wants something more than to see his advertisement in a printed newspaper. He wants circulation. If it is worth 25 cents per line to advertise in a paper of three thousand circulation, it is worth \$250 per line to advertise in one of thirty thousand.

RATES OF ADVERTISING.
Back Page.....75 cents a line.
Back Page, for engravings.....\$1.00 a line.
Inside Page.....40 cents a line.
Inside Page, for engravings.....60 cents a line.

AMERICAN EMERY.

ARROWSIC EMERY, Manufactured at Bath, Me. All numbers from fourp to one hundred and twenty. The only real emery in the world, excepting in Turkey. For sale in quantities to suit, at reduced prices, by STANWOOD, McLELLAN & FULLER, 24 Central street, Boston.

From Stanly Enle and Level Co., New Britain, Conn.
"We have been using some numbers of your Emery on steel, and it gives good satisfaction. If it proves to work as on trial, this is, we shall use nothing else. For some reason, London emery does not give us good satisfaction on steel."
Bristol, Conn.:
Our men, who work by the job, say your Emery is better than any English or American Emery they ever used.

Macintosh Hemphill Co., Pittsburgh, Pa.:
"The quality of your Emery Cloth is excellent." 22 9*

FIFTY Persons in every town wanting the best Fireside Monthly full of good Reading, Instruction, Amusement, "Gayeties and Gravities," should send for the "Household Messenger," London Ridge, N. H. Specimen 8 A vol., postpaid, only fifty CENTS.

LOOK! LOOK! Best Sencil Dies, fifty two sizes and styles. A check for any one to engage in a paying business requiring but small capital. Instructions Free. J. S. COON, Jr., Burlington, Vt.

500 AGENTS WANTED TO SELL Howe's Never Failing Aque Cure and Tonic Bitters, warranted to Cure. Also, Howe's Syrup, for Blood, Liver, Skin, etc. Large Profits—100 per cent. For particulars, inclose a 3c. stamp to proprietor, C. B. HOWE, M.D., Seneca Falls, N. Y.

WANTED.—An Inventor of a New and Improved Traction and Agricultural Engine wishes to correspond with parties interested in their manufacture and introduction. R. K. McMURRAY, Engineer, Address 2 and 4 N. Greene st., Baltimore, Md. 22 2j

PRATT, WHITNEY & CO., HARTFORD, CONN. Make Hand and Machine Lathes, Crank and Gear Planers, Drills, Screw and Milling Machines, Water Motors, etc., unsurpassed for nice construction, strength, durability, and convenience. 22 13

LENOIR GAS ENGINES, From half Horse to three Horse-power, for sale at COMPANY'S OFFICE, No. 26 Pine st., Room 8, New York. 22 5

WANTED—A Second-hand Low Pressure Engine of about sixty Horse-power. Address A. CATCHELLE, Geneva, N. Y. 22 5

MODELS and all kinds of Brass Work made at J. GARR'S, 8 Gold st., near Maiden Lane. 22 2* cov.

INVENTORS having Patents to sell will find it to their advantage to visit the rooms of Inventors' Exchange, 53 Broadway, New York, opposite St. Nicholas Hotel. Send stamp for circular. 22 3*

FABRICATION OF VINEGAR. Prof. H. DUSSAUCE, Chemist, is ready to furnish the most recent methods of manufacturing Vinegar by the slow and quick processes, with and without alcohol, directly from corn. Also, process to manufacture vinegar and acetic acid by distillation of wood. Methods of assaying vinegars. Address New Lebanon, N. Y. 22 1

ARTIFICIAL EARS FOR THE DEAF. Can be Concealed. Send to E. HASLAM, 266 Broadway, New York, for a descriptive pamphlet. 22 4*

YOU CAN SOLDER your own tin ware without a soldering iron by buying one bottle of Wilson's Prepared Solder. Samples sent on receipt of 25 cents, with price list. Agents wanted everywhere. Direct to WILSON & CO., No. 19 Lindal st., Boston. 22 2D

TO SOAP MANUFACTURERS.—Prof. H. DuSSAUCE, Chemist, is ready to furnish processes to manufacture every kind of soaps, with the plans of manufacturing and drawings of apparatus. Also, analysis of soaps and crude materials. New Lebanon, N. Y. 22 1

HUTCHINSON & LAURENCE, 8 Dey street, New York. Steam Engines and Boilers, Iron and Wood-working Machinery, New and Second-hand Machinists' Supplies, etc., General Agents for Judson's, and other improved Governors. 22 4

INCORUSTATIONS REMOVED And Prevented by The Winsans Anti-Incorustation Powder. 11 Wall st., New York. Success guaranteed. 22 1*

LIBERAL ARRANGEMENTS WILL BE made with parties who wish to build the Ohio Reaper and Mower, by J. A. SEXTON, Canton, Ohio. 22 1

TO PATENTEES.—Metal Small Wares of all descriptions made and introduced to the Trade. Press and Blow Work, Metal Spinning Dies, Tools, Castings, etc., to order. J. H. WILITE, Newark, N. J. 22 1*

WIRE ROPE. Manufactured by JOHN A. ROEBLING, Trenton, N. J. FOR Inclined Planes, Standing Ship Rigging, Bridges, Forries, Stays or Guys on Derricks and Cranes, Tiller Ropes, Sash Cords of Copper and Iron, Lightning Conductors of Copper. Special Attention given to hoisting rope of all kinds for Mines and Elevators. Apply for circular, giving price and other information. 22 2

POSITIVE STEAM PUMP. WM. HARSEN, Patentee and Manufacturer, Greenpoint, L. I., costs one third less than any other First-class Pump of the same capacity. J. W. COLE, Manufacturer's Agent, No. 205 Broadway, Room 3, 22 3j

POWER PUNCHES, ROTARY SHEARS, Vertical Drills, etc. Address GREENLEAF & CO., Indianapolis, Ind. 22 3j

THE STONE'S RIVER UTILITY Works, of Murfreesboro', Tenn., manufacture large quantities of Red Cedar Ware and Moth-proof Cedar Clothes Chests. Agents Wanted. Send for Catalogue. 22 2fj

The Holiday Journal. OF Parlor Plays, Magic Sports, Games, Experiments, Problems, Puzzles, etc. Will be sent Free, Address ADAMS & CO., Publishers, Boston. 22 1 D.

HOUSEKEEPERS DO YOUR OWN Painting. Full directions for mixing and applying Paints and Varnishes will be found in Painter, Gilder, and Varnisher's Companion, price \$1.50 by mail, free of postage. HENRY CAREY BAIRD, Industrial Publisher, 406 Walnut st., Philadelphia. 22 4

BOILER FELTING SAVES TWENTY-FIVE per cent of Fuel. JOHN ASHCROFT, 50 John st., New York. 22 12j

PAINTER, GILDER, and VARNISHER'S COMPANION.—Tenth Edition, with important additions, just ready, price \$1.50 by mail, free of postage. HENRY CAREY BAIRD, Industrial Publisher, 406 Walnut st., Philadelphia, Pa. 22 4

THE Excelsior Wind Mill and the Genuine Concord Axes manufactured by 15 25j D. ARTHUR BROWN & CO., Fishersville, N.H. 22 4

The very highest prize, THE CROSS OF THE LEGION OF HONOR, was conferred on the representative of the Grover & Baker Sewing Machines, at the Exposition Universelle, Paris, 1867, thus attesting their great superiority over all other Sewing Machines. Salesrooms 495 Broadway, New York. 20 4

PATENT IMPROVED ENDLESS OR BAND SAW MACHINES, where saw breaking is entirely prevented; they run one-third faster than any other band saw. Also, a narrower saw, than usual, can be used and produce from three to five times more work than any of the best up-and-down saws in use; save much power and stock. Refer nees can be given from almost any part of the country. Machines for cutting boards are in process of building. We also manufacture well designed oval and other wood turning lathes, double adjustable spindle boring machines, circular saw mandrels, shafting pulleys, flanges, etc. FIRST & PRYBLL, 175 and 177 Hester st., New York city. 20 6j

PATENT INK ERASER, BURNISHER, Pencil Sharpener, and Pen Holder combined. Sells at sight. Agents wanted. Can make \$50 a week. Sample, post paid, 25 cents, or two styles for 40 cents. Address MORSE ERASER CO., 404 Library st., Philadelphia, Pa. 22 4j

CARPENTERS SEND for Catalogue of New and Practical Architectural Works, enclosing stamp. 20 1fj A. J. BUCKNELL, Troy, N. Y.

HOUSEKEEPERS DO YOUR OWN Painting. Full directions for mixing and applying Paints and Varnishes will be found in Painter, Gilder, and Varnisher's Companion, price \$1.50 by mail, free of postage. HENRY CAREY BAIRD, Industrial Publisher, 406 Walnut st., Philadelphia. 22 4

PAPER COLLAR MACHINES.—Experimental Machinery and Molds—the latest improved machine for Pressing Linen Bosoms and Collars. Patterns, Drawings, and Letters at the corner of Union and Fulton sts., Troy, N. Y. W. H. TOLHURST. 21 2*

COACH PAINTERS will find Practical Directions for Coach Painting and Varnishing in tenth edition of Painter, Gilder, and Varnisher's Companion, now ready, price \$1.50 by mail, free of postage. HENRY CAREY BAIRD, Industrial Publisher, 406 Walnut street, Philadelphia. 22 4

WILL SELL ENTIRE OR STATE Rights for my Hay Gatherer, illustrated in No. 19, Scientific American. Every farmer needs one. Address 19 4j JAS. SWINNETON, Marion, O.

DUNHAM'S Improved Nut-Forging Machine is unequalled in simplicity and durability, and the most perfect working machine in use. Rights for sale. Address [15 8*] GEO. DUNHAM, Unionville, Conn.

A GOOD BUSINESS AT YOUR OWN Door.—Your County Agency for the sale of Brown's Patent Ventilating Damper. No one using Stoves would long be without them after their sale was commenced. Retail for \$1.50. Agents get half. Hotels take twenty to fifty, and every house in proportion. Apply to J. C. FELLOWS, Box 5338, P. O., New York. 17j