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25,709.—W. H. Allen and A. J. Bentley, of New York City, for an Improved Rope-nipper:

We claim the rope-nippers, composed of the grooved pivoted jaws, D, and levers, A, and otherwise constructed as shown and described. [The object of this invention is to dispense with the present tedious and objectionable mode of "taking a sheep shank," and to provide an instrument with which a pulley-block can be securely attached to any rope in a few seconds without being liable to dip.]

25,710.—Thos. C. Avery, of New York City, for an Improved Galvanic Battery:

I claim, first, The use of the insulating amalgam, substantially as described, in combination with the surfaces of the zincs of galvanic batteries for telegraphic purposes, for obtaining the results before set forth.

Second, I also claim the use of two or more independent strips of platinum in the construction of galvanic batteries for telegraphic purposes, as an improvement on the Grove Battery, for the purpose of obtaining the results before set forth, but irrespective of their use in combination with the insulated amalgamated zincs before described.

25,711.—Augustus Bailey, of Gardiner, Me., for an Improved Machine for Bending Wood:

I claim the combination of the aforesaid horizontal sliding roll, G, and graduated hook, Z, with the semi-cylinder, A, acting substantially in the manner and for the purpose set forth and described.

25,712.—J. D. Baldwin, of Columbus, Ga., for an Improvement in Composition for Paint Oil:

I claim, as a new or improved article of manufacture, the paint oil composed of the ingredients specified, essentially in the proportions named and prepared, substantially as described for use as set forth.

25,713.—W. D. Ballard, of Kansas City, Mo., for an Improvement in Steam Boiler Furnaces:

I claim the arrangement of the fireplace, B, the partitions, f f g h h, of the setting, and the chimney F, substantially as described, with the two-flued boiler.

[A description and engraving will be found on another page.]

25,714.—G. F. Benckert and D. H. Benckert, of Philadelphia, Pa., for an Improved Signal-bell:

We claim, first, The latch, D, operating with the hammer and pull-bar, with the one spring, as specified. Second, Placing the working parts of a signal bell within the sounding-box, substantially as and for the purpose specified.

25,715.—S. E. Blake and Thos. Johnston, of Louisville, Ky., for an Improvement in Hemming-guides for Sewing-machines:

We claim, first, The combination and arrangement of the spiral tongue, G, flanged roller, F, F, and yielding plate, B, for the purpose set forth.

Second, The spring-plate, B B', constructed as described with an oblique slot in the limb, B, combined with the adjustable gage, C, in the manner and for the purpose set forth.

Third, The yielding pressure roller, K, adapted and applied substantially as set forth, to smooth and flatten the hem previous to stitching.

25,716.—Reinhold Boeklin, of Jersey City, N. J., for an Improvement in Connecting-rods applied to Cranks:

I claim giving the rod elasticity, both longitudinally and in a lateral direction, parallel with the plane of revolution of the crank, by extending it in the form of a bow or arc, beyond the crank-pin or wrist, and making such bow elastic, substantially as and for the purpose specified.

27,717.—J. K. Booton, of Luray, Va., for an Improvement in Machines for Breaking and Cleaning Hemp:

I claim, first, The combination and arrangement of the cylindrical grating, J J K K K, and lever arms, x x y y, and swords, z z, and concave gratings b b b, with the hurder cylinder, P, formed with alternate plain edges, and serrated ridges or ribs, q r, q r, substantially as set forth and described.

Second, I claim the combination and arrangement of a fan or blast wheel, C C C, with the hurder cylinder, P q r, and endless apron, u, u, substantially as set forth and described.

25,718.—L. Bradley, of Folsom, Cal., for an Improved Telegraphic Machine:

I claim, first, Arranging the type and mechanism for closing the circuit, substantially as described, or in an equivalent manner, so that a double closing of the circuit is effected, as each tooth of the type comes in contact with the closing mechanism.

Second, The combination of the type and composing-sticks with a yielding insulating plate, carrying the mechanism for breaking and closing the circuit, whereby the contact of the closing mechanism with the face of the type is insured.

Third, The vibrating hook, g, and bar, i, or their equivalents, in combination with a yielding insulating plate and type and sticks, for the purpose of closing the circuit.

Fourth, The combination of the composing-stick and type with the spring, c, or its equivalent, arranged substantially as described, so that the type are made to form a portion of the circuit for the purpose set forth.

Fifth, The combination of the carrying-band, and mechanism for closing the circuit, with the composing-sticks, and type arranged on the band, in relation to each other, substantially as described, so that the sticks are successively carried forward in the order in which they are arranged, brought into the current, and the message transmitted without interruption.

Sixth, The combination of the movable platform carrying the recording mechanism, with the rotating cylinder carrying the record-paper, arranged substantially as described, so that the message as transmitted is recorded in parallel lines on the paper.

Seventh, Constructing the composing-sticks and types, substantially as described, so that the sticks when filled with the type shall present an even and flat surface on either side.

Eighth, The application of a siphon pen, constructed and arranged substantially as described for the purpose of recording the messages. Ninth, The inclined plane, n, arranged substantially as described, in combination with the band, D, whereby the composing-sticks are received from the band in such manner as not to interfere with each other's delivery, and in the same order in which they were placed on the band.

25,719.—T. B. Burtis, of Chicago, Ill., for an Improved Refrigerator:

I claim the employment or use of the ice-chamber, B, water chamber, C, air-passages, D E G, and a series of provision chambers, F, arranged relatively with each other, for the purpose set forth.

[This invention consists in a peculiar arrangement of an ice-chamber, water-chamber, air-passages and provision-chambers, so arranged that currents of pure air are made to pass simultaneously through a series of separate provision chambers, keeping the contents cool, and removing therefrom the impure air and deleterious gases.]

25,720.—John Buzby, of Moorestown, N. J., for an Improvement in Gate-bars:

I claim making the mortises, m, and the tenons on the grate-bars, alternately, one above the other, so that the mortises may be made entirely through the bar, without interfering with the tenons, and so that tenons may extend entirely through the bar without interfering with one another, and be made so long as not to be drawn out of the mortise by the warping or springing of the grate-bars.

25,721.—A. S. Capron and D. S. Davis, of Grass Lake, Mich., for an Improvement in Potato-diggers:

I claim the arrangement of axle, R, wheels, A A', and wheel, C, pinion, F, crank and shaft, E, guides, e e, roller, y, rake, D, apron, H, and hooks, i i, the whole being connected together and operating substantially as and for the purpose specified.

25,722.—Tisdale Carpenter, of Providence, R. I., for an Improvement for Operating the Valves of Steam-engines:

I claim the adjustable graduated scroll-shaped side cam, so arranged as to be traversed and adjusted by a regulator or governor, while the engine is in motion, substantially as described or adjusted and fixed or set by hand while the engine is stopped.

25,723.—Samuel Chace, of Providence, R. I., for an Improvement in Awnings:

I claim the application of the various devices described, viz., the gear-toothed tracks, C C, with the pinions, E E; also the dogs, G G, and finally the box or covering, K, to an awning, the whole being constructed substantially as and for the purposes set forth.

25,724.—James S. Colvin, of Alleghany, Pa., for an Improved Gasket for Steam and other Joints:

I claim a joint gasket, composed of a ring of india-rubber, encased with copper or other metal, substantially as described.

25,725.—Norman Cowles and A. Hulbert, of Edgefield, S. C., for an Improvement in Spring-back Carriage-seats:

We claim the employment of springs, D D, substantially as described, when in connection with a back, B, supported by hinged uprights, in the manner and for the purposes set forth.

25,726.—Biram C. Davis, of Binghamton, N. Y., for an Improved Hand-machine for Wiring Blind-rods:

I claim, first, The setting-form, A, which sets over the rod, C, and straddles the slats, D, and which is secured under the blind by means of the stationary bar, B, in such a manner as to let the staples through the eye of the staple, the rod, C, into the slats; D D being the equivalent means employed for setting the staple into the rod, C, in combination with the adjustable arrangement, K, operating substantially as described.

Second, I claim, in combination with the form, A, the joint lever, G, flange-rod or drivers, H, dividing-slide, I, inclined needle-bar, J, the whole being arranged substantially as described and for the purpose set forth.

25,727.—E. Dougherty, of Cedarville, Ohio, for an Improved Wheelwright Machine:

I claim the combination of devices as specified, substantially as and for the purposes set forth.

25,728.—H. F. Drott, of Cumberland, Md., for an Improved Shutter-hinge:

I claim the employment of the spring, E, as constructed, when used in connection with the plate, n, as constructed, the two being used in combination with any common shutter-hinge substantially as and for the purpose specified.

25,729.—B. Wells Dunklee, of Boston, Mass., for an Improvement in Furnaces:

I claim the general arrangement, as described, of the space, Q, the chamber or dome, I, the dampers, M and N, and pipe or T-L, and the ventilating-pipe, S, and smoke-drum, G, and ventilating-pipe, P, and smoke-pipe, T, and air duct, R, and series of dampers in flues, F, in relation to each other and with respect to the flue, F, and hot-air chamber, E, the whole being made to operate substantially in the manner and for the purposes set forth.

25,730.—Wm. O. Grover and Wm. E. Baker, of Boston, Mass., and O. B. Potter, of New York City, for an Improvement in Sewing-machines:

We claim a non-penetrating instrument and a piercing eye-pointed needle, acting together to make an interlocking of threads, substantially as represented, in combination with a clamping-apparatus, acting substantially as specified, the combination being substantially as set forth, and acting to make a double-looped stitch substantially in the manner described.

And, second, We claim mounting a spool or bobbin, from which thread is to be delivered for the purpose of sewing by machinery, upon two truncated cones, substantially as set forth.

25,731.—Horace Gushee and John G. Dawes, of San Francisco, Cal., for an Improvement in Bee-hives:

We claim the combination of the comb-frames, D, rods, E, staples, a' a, and cleat, H, arranged as described, whereby the comb-frames may be readily removed or inserted in the manner described and for the purpose specified.

25,732.—John R. Guy, of Springfield, Ohio, for an Improved Bedstead:

I claim the arrangement of the frame, C D E, with reference to the heads, A, and their connection by means of the joints, H G, and slides, I, and plates, J, or their equivalents, substantially as described.

25,733.—Joshua Hendy, of San Francisco, Cal., for an Improved Double-friction Coupling:

I claim the application of two such truncated cones to one coupling (one at either end), and operated by a single lever, so as to work in cavities or conical sleeves attached to pulleys or wheels arranged on one shaft, so that said shaft may be run slow or fast, or backward, or forward, or entirely stopped, without stopping the prime-motor or changing its speed, substantially as set forth and explained.

25,734.—Hatsel Higgins, of Orleans, Mass., for an Improved Steering-apparatus:

I claim the arrangement, substantially as specified, of the rudder-head in connection with the supports which, respectively, serve as bearings to the hand-wheel shaft and the rudder-operating gear, said shaft extending back of and over said gear, whereby the rudder may be operated either by the gear or by a tiller from the wheel-shaft, as described; and also compactness of steering-apparatus and economy of deck-space is obtained.

25,735.—Isaac H. Hobbs, Abraham W. Rand and Geo. H. Sellers, of Philadelphia, Pa., for an Improvement in Hot-air Furnaces:

We claim, first, The general arrangement of the subdivided air-chamber, in connection with the separate receiving and discharging

openings, substantially in the manner and for the purpose specified. Second, We also claim the deflecting diaphragms, in combination with the above-described arrangement, in the manner substantially and for the purpose set forth.

25,736.—Sidney S. Hogle, of Cleveland, Ohio, for an Improvement in Rotary Harrows:

I claim the combination of a series of individually-rotating toothed frames or wheels, with a rotating central frame or wheel, in such a manner that the said parts will operate substantially in the manner set forth.

25,737.—D. E. Holmes, of Halifax, Mass., for an Improved Clothes-frame:

I claim the combination of the standards, A A, horizontal hinged-frames, C C, when the same are sustained and braced by slotted braces, F F, all arranged substantially in the manner as and for the purposes set forth.

[This frame is so arranged that it can be spread out to receive a large amount of clothing, and, at the same time, the parts constituting the frame are so constructed that when not in use it can be closed in a very compact state, so as to obtain a great economy in room.]

25,738.—Bold R. Hood, of Clinton, N. C., for an Improvement in Plows:

I claim the combination of the standard, D, with the standard, C, and land-sides, E, when the parts are connected as described, and adapted to receive the various forms of shovel points and mold-boards in use, in the manner described for the purpose specified.

25,739.—William H. Johnson, of Springfield, Mass., for an Improved Telegraphic Cable:

I claim an electric telegraphic conductor, constructed in the manner and for the purpose set forth.

25,740.—W. M. Keague, of Brooklyn, N. Y., for an Improved Omnibus-register:

I claim, first, The arrangement and combination of the platform, D, vibrating-lever, C, and adjustable spring, G, substantially as and for the purpose specified.

Second, I claim combination with the platform, D, and spring, G, I claim the sliding-bar, H, spring-catch, n, and wheel, K, substantially as and for the purpose specified.

Third, Arranging the step, A, in combination with the registering-apparatus, substantially as described, so that it registers half-fares as well as full-fares.

[The steps of the omnibus are connected with the registering-mechanism by means of an adjustable spring, so that it can be set to any desired weight, and that not only full-grown persons are registered, but also such as pay half-fares.]

25,741.—Miles Keely and G. W. Cressman, of Barren Hill, Pa., for an Improvement in Hydraulic Motors:

We claim the arrangement and combination with the levers, M, lever-frames, K L, and bottoms, K, of the adjustable slots, r, and bars, t, by which the speed of the machine, length of stroke of the levers, and distance of water may be regulated at pleasure, as shown and described.

25,742.—Archibald C. Ketchum, of New York City, for an Improvement in Tea Kettles:

I claim the combination of the tin top, copper bottom, and sheet-iron skirt, when the same are all united by one and the same lap-joint, and just below the spout of the kettle, as described, constituting a new article of manufacture.

[This invention consists in making the body of the kettle of three parts—copper, tin and a sheet-iron jacket—and in uniting these parts together in one joint so as to be perfectly water-tight, and, at the same time, so as not to be injured by the heat should the water in the kettle get below this joint.]

25,743.—Isaac R. Lawrence and George E. Gould, of Green Island, N. Y., for an Improvement in Endless Chains for Horse-power Machines:

We claim, first, Extending both the lugs, A, and the links, B, of such chains to or beyond the treads, q, of the friction wheels, c, carried by axles, h, cast on the links, substantially as and for the purpose described.

And, second, We also claim forming and arranging projections, r and s, on the links, B, of the chain, substantially as and for the purpose set forth, the links, being provided with male lugs, d, and female lugs, f, substantially as described.

25,744.—Lucius Leavenworth, of Trumansburgh, N. Y., for an Improvement in Straw-cutters:

I claim the arrangement and combination of the rockers, C and E, and springs, d, substantially as described, for the purpose of giving a double motion to the knife, and to avoid friction of the working parts.

[This straw-cutter is very simple and compact. It is so arranged that it can be suspended from the wall when it is to be used, and taken off and hung up out of the way when not required for use. The lever to which the knife is attached is furnished with a rocker that works against another similar rocker on the frame, both being connected by means of springs in such a manner that a shear cut is produced and the cutting greatly facilitated.]

25,745.—Sylvester Marsh, of West Roxbury, Mass., for an Improved Apparatus for Stirring and Delivering Grain:

I claim, first, The combination with the reticulated bed or other suitable drying table, of a reciprocating truck, armed with paddles or stirrers for agitating the grain on the drying surface.

Second, The arrangement, substantially as specified, of the truck-paddles in rows, one in advance of the other, and the paddles of each preceding row intermediate of those next behind them.

Third, Giving to the paddles of the reciprocating truck an oblique set forward during the forward travel of the truck, and giving them an edge presentation or set for and during the back travel of the same, essentially as and for the purposes set forth.

Fourth, Giving to said paddles reverse obliquities, for and during the forward travel of the truck, so as to throw the grain to the right and to the left, alternately, in the feed forward of the grain by the paddles.

Fifth, The combination with the reciprocating truck and its paddles, of a cross sliding-frame, made to gear by cranks, or their equivalents, with the several paddles, for simultaneously changing the latter from an oblique to a straight set, and vice versa, substantially as specified.

Sixth, The combination with the cross sliding-frame to the reciprocating truck, of one or more adjustable inclines and stops for automatically reversing the position of the paddles in their one direction.

Seventh, Drawing the cross frame back to its original position, to give to the paddles a different set, by means of a clip-lever, acted on by a weight, weighted catch, and inclined projection, connected with the reciprocating truck, or their equivalents, also afterwards returning said lever to its former position to be locked by the weighted catch by an inclined plane on the truck, acting against and over a swell on the lever, substantially as set forth.

Eighth, Varying the range of motion of the reciprocating truck on or over the drying surface, and relatively to the feed or delivering-ends thereof, by means of a lengthening and shortening driving pitman, made adjustable, substantially as specified.

25,746.—Andreas Maurer, of New Carlisle, Ind., for an Improvement in Seed-planters:

I claim the arrangement and combination of the vertically-mov-

ing and seed-distributing supporting-axle, D, and boxes, E, and lever F, as and for the purpose set forth.

[This invention relates to a novel and improved arrangement of the seed-distributing device whereby the same may be adjusted with the greatest facility, so as to be rendered, as the machine moves along, operative and inoperative, as desired. The invention consists in having the axle of the supporting-wheel extend through the sides of the frame of the machine, and below the seed boxes, the ends of said axle being provided with seed cells, and the axle allowed a certain degree of longitudinal play in its bearings, so that the seed cells may be shoved underneath the seed boxes or out from underneath them, and the desired end thereby attained.]

25,747.—Thomas J. Mayall, of Roxbury, Mass., for an Improvement in the Method of Combining Emery with Caoutchouc:

I claim the new process described of making emery sharpening and polishing tools by combining emery with india-rubber, gutta-percha, or other substances, and then submitting them while under great pressure to a high degree of artificial heat, substantially as set forth whereby, with a given quantity of rubber, emery may be combined in much greater quantities than it could be heretofore done.

25,748.—James McAleer, of Chambersburgh, Pa., for an Improvement in Harvesters:

I claim the arrangement of the two seats, D, D', one facing at right angles to the other conducting-trough and binding table, F, F', and the elevating device, C, all for use together, in the manner and for the purposes set forth.

25,749.—J. McDougal, of Masonville, Mich., for an Improved Mode of forming Joints in India-rubber Belting:

I claim the employment in combination with the belt ends, A, B, of the tongues and cavities, C, C, so that the sides of the tongue portion shall be protected by the selvages of the cavity parts, substantially as shown and described.

[India-rubber belting, as ordinarily made, is composed of cloth saturated and coated with india-rubber, and doubled in such a manner that the junction of its edges is formed along the center of one face of the belting, leaving a fold at each edge. The best method hitherto adopted for forming the joints in such a belt is to split to a certain distance from each end, and remove the terminal portion of one of the two layers by cutting them square across where the splits at one end of the belt and of the opposite layer at the other end terminate, and lapping together the single layers thus left, and cementing and stitching them together; but by this method the selvage of the belt is destroyed for the whole length of the joint. This invention consists in so forming the joint by cutting the two ends which are to be joined, to such an angular, pointed or rounded form that by splitting the terminal portions and cutting away the opposite layers at the two ends in lines or angles corresponding with those of the terminal edges, the lap joint may be formed without the destruction of the selvages at more than a single point in each.]

25,750.—S. T. McDougall, of New York City, for an Improved Traveler's Ticket-holder:

I claim the lever, C, spring, C', point, i, or other equivalents, in combination with an ordinary shawl pin; the whole constructed and operating as set forth.

25,751.—James P. McLean, of New York City, for an Improvement in Skates:

I claim the arrangement and use of the side or ankle springs, A, A', with parts, B, B', and instep-projections, 2 and 3, adjustable or otherwise, in combination with the heel spring, h, having a pad at its top end, and with the cork sole, m, in the form of a shoe, or otherwise, as set forth.

Second, I claim the combined arrangement and use of the railroad attachment, K, K', and Y, Y', as applied to a skate; the same forming a toe-strap loop if required, in the manner and for the purpose set forth.

25,752.—James C. Miller, of Union township, Pa., for an Improvement in Horse-power Locomotive:

I claim horse-power sweep levers connected with one or more ground wheels, substantially as described and for the purposes specified.

25,753.—George F. Milliken, of Somerville, Mass., for an Improved Electro-magnetic Burglar Alarm:

I claim the combination of a galvanic battery, an electric circuit, a circuit-breaker, operated by a window or door, with a step by step indicator, substantially as described.

I claim causing a window or door automatically to prevent any alteration upon the circuit during the closing of the window or door, until it is nearly closed, in any manner substantially as described.

I claim the use of the armature, J, for the double purpose of regulating the movements of the points and setting in motion the alarm apparatus.

25,754.—B. S. Morgan, of Delhi, Iowa, for an Improvement in Cultivators:

I claim the arrangement and combination of the side wings, D, and wheels, H I I', of a cultivator, with the levers, h, i, bar, d, rods, e, and hand-lever, f, substantially as and for the purpose specified.

[This cultivator is so arranged that an instantaneous side motion can be given to the wings, so that the cultivator can be adjusted to the varying width of the same furrow; and the wheels which support the frame are so constructed and connected with a hand-lever that said frame can be raised or lowered parallel with the ground.]

25,755.—William A. Morrison, of Morrisania, N. Y., for an Improved Boot and Shoe Brush and Scraper:

I claim the arrangement of the springs, B, in combination with screws, A, in such a manner as to throw the brushes, C, forward parallel with the scraper, D, as and for the purpose specified.

25,756.—Abel R. Nixon, of Rhea Spring, Tenn., for an Improvement in Hand Looms:

I claim, in combination with the lay beam and spring picker-staffs, the toggle-levers, b, b, triggers, f, f, and flexible connections, e, h, for effecting the setting and tripping of the picker-staff substantially as described.

And I also claim, in combination with the lay and the treadles for working the harness or sheds, the toggle-levers, q, and trigger-cords, h, so that the shed shall be properly made before the trigger is drawn to let the shuttle fly, thus ensuring a perfect sequence of operation, and with great saving of manual labor on the operator, as set forth.

25,757.—Samuel Page, of Chelsea, Mass., for an Improved Varnish:

I claim the described varnish, made of the materials specified.

25,758.—Wm. Munroe, of West Auburn, Maine, for an Improvement in Sole-cutting Machines:

I claim, first, The arrangement of the vertical slots, i, in the arbor, K, elastic bars, q, r, with their projections, s, fitting respectively in said slots; the weight, P, bar, f, and the shafts, I, N, provided respectively with the cam, K, spring, P, pulleys, M, part-pinion, L, and strap, O, substantially as described, to operate the arbor, L, and its die or cutting-flanch, I.

Second, The stop, S, attached to a shaft, Q, provided with springs, J, K', and actuated by the pin, h', on the rod, F, and the notched block, F', attached to the bar, R, substantially as and for the purpose set forth.

25,759.—Henry Pfaner, of New York City, for an Improvement in Gear-cutting Engines:

I claim a pattern, t, mounted on a shaft or spindle, which also carries the gear to be cut, in combination with a fixed dog or guide, u, when said dog or guide is located that the pattern runs off and is clear of the same, so as to be turned at the time the gear is clear of the cutter, and said pattern again takes and is held by said dog, as the cutting commences, and is proceeded with as set forth.

I also claim the arrangement of the lever, x, pawl, y, and adjustable stop, z, to give motion to the pattern, t, when not in contact with the stop or dog, u, as described.

In combination with the pattern, t, and dog, u, I also claim the stock, carrying the shaft or spindle, s, and actuated by the lever, k, for the purposes as specified.

25,760.—Mathieu Philippi, of Troy, N. Y., for an Improvement in Key-boards for Pianofortes:

I claim so constructing the upper surfaces of the keys of a pianoforte, that while the ordinary form of the key-board is retained, portions of all the keys are brought to the same level in the key-board, substantially as and for the purpose specified.

25,761.—Henry B. Ramsey, of Indianapolis, Ind., for an Improvement in Harvesters:

I claim the combination of the frames, N O and K, chain, L, chain-wheel, M, crank, V, screw-rod, X, friction-bearers, b, b, and grain-table, Y, when the several parts are constructed and arranged for operation in the manner and for the purpose set forth.

25,762.—L. B. Richardson, of Athol, Mass., for an Improvement in Lasting-pincers:

I claim the application of a swinging fulcrum to lasting-pincers, constructed and arranged substantially in the manner and for the purpose set forth.

25,763.—Robert E. Rogers, of Philadelphia, Pa., for an Improvement in Umbrella Frames:

I claim combining, with the tubular ribs and stretchers, constructed as described, the means for uniting the ribs and stretchers, and for strengthening the tubular parts of the frame, as set forth.

25,764.—Wm. Seeley, of Chillicothe, Ill., for an Improvement in Cultivators:

I claim the arrangement of the post, D, arms, E, cross-bar, F, lever, H, wheels, W, shovels, B and C, chains, R and Q, arms, U, cross-bar, K, vertical lever, Y and Y', rods, Z, whiffletree, X, and draft-hook, A2, the whole being constructed and combined in the manner and for the purpose described.

25,765.—Joseph Seymour, of Syracuse, N. Y., for an Improvement in Making Spoons:

I claim the machine known as the "rolls," having the former or figure of any article to be made up plain, of silver or other metal, cut upon one or both of them, so much larger than the same article when finished, that the article itself can be cut with a punch, of the desired size and shape, out of a piece of metal after it has been passed between the rolls and entirely within the margin or edge of the impression made upon the metal by the form or figure cut into one or both of the rolls, substantially as described and set forth.

25,766.—H. O. Sheidley, of Republic, Ohio, for an Improved Invalid Bedstead:

I claim the combination of the sliding hinged bottom, B B' B'', with the crank shaft, cords and attached levers, and the movable foot-board, F, substantially as and for the purposes set forth.

25,767.—John H. Shrote, of Baltimore, Md., for an Improvement in Cutting and Panning Cakes:

I claim the cutters, A, as constructed or their equivalents, in combination with the pan, E, and bottom-board, D, for the purpose of facilitating the cutting and removing the cakes to the oven, as set forth and described.

25,768.—Charles R. Smith, of Haverhill, N. H., for an Improved Device for Bracing and Ventilating Fence Posts:

I claim, first, The peculiar construction and arrangement of the wire-loop, K, in combination with one pair of braces, a post and a sill, substantially as and for the purposes set forth.

Second, The grooved post, E, and the grooved cleats, D and F, in combination with the lengthwise boards or slats, B B B B, substantially as and for the purpose set forth.

25,769.—A. D. Snow, of Rochester, N. Y., for an Improvement in Governors for Steam and other Engines:

I claim the use of collar, T, first, to control the passage of steam through the valve, A, on starting the engine; secondly, to control the extreme downward movement of the valve, A, by means of stops, I, I, so connected with the valve-openings, E E, as to close them at either extreme of the movement.

I also claim locating the weight, X, beneath and partially entering the tube of the valve, A, as represented.

25,770.—C. M. Spencer, of Manchester, Conn., for an Apparatus for Cutting and Attaching Labels:

I claim the cutting and affixing labels upon spools by one or the same action of a machine as the dies, M L, on the tubular cutters, e, follower, c, or their equivalents, substantially in the manner and for the purpose described.

25,771.—Joseph Andrew Stephan, of Lafayette, Ind., for an Improvement in Adjustable Rails for Replacing Cars on the Track:

I claim, first, The fish pieces, B C D, clamped to the permanent rails, A A, and elevated high enough above said rails to carry the flanges of the car to be replaced over them, substantially as described.

Second, I also claim, in combination with an elevated temporary track, secured to and high enough above the permanent track to carry over the flanges of the wheels the sections, G G', and their switches, e, h, extending to each of the pairs of wheels of the car, said sections having all the elements of switches, frogs and rails, substantially as described.

25,772.—David Stewart, of Annapolis, Md., for an Improved Method of Preparing Bones for Fertilizing Purposes:

I claim the stratification of the bones with materials, a animal vegetable and mineral, substantially in the order and upon the principles set forth, using the materials above designated, or their equivalents, whereby bones are reduced, in a most economical manner, to an available condition for manure, and a thorough compost obtained adapted to all the necessities of growing and fruiting plants without any mechanical labor other than that of stratifying, cutting down and screening, as set forth.

25,773.—Wm. H. Tambling, of Berlin, Wis., for an Improved Milk Safe:

I claim the described safe, as an article of manufacture, constructed in the particular manner set forth, to wit, with gauze wire sides and doors; and with shelves, which consist of longitudinal slats, C C, to which are secured a series of wooden cross slats, D D, which are made broad at their base and beveled to an edge on their tops, the whole being arranged together and used in the manner and for the purpose specified.

25,774.—Wm. H. Tambling, of Berlin, Wis., for an Improved Washing-machine:

I claim, first, The arrangement of the buckets, D D, in the four corners of the interior of the box, A, said buckets being made in a triangular form and open at one angle, as at x x', the same being used in the manner and for the purpose specified.

Second, The arrangement of the bars, a, a, as provided with pins, n, n, and in the form represented when used in connection with the box, A, and the buckets, D D, as constructed, the whole operating substantially as and for the purpose specified.

25,775.—Francis C. Treadwell, Jr., of New York City, and Henry McCollum, of Windham, Conn., for an Improved Mode of Making Cylindrical Strips of Dough in the Manufacture of Crackers:

We claim the described improved method of forming skin-covered strips from a sheet of previously smooth-rolled dough, by passing it between a pair of grooved rollers, arranged and constructed substantially as described, with the groove separated by portions of the plane surface of the rollers.

25,776.—John G. Treadwell, of Albany, N. Y., for an Improvement in Apparatus for Ventilating Railroad Cars:

I claim the arrangement of the boxes, A', of the porous partitions, C C, and the pipe, e, provided at its lower end with a sprinkler, O, when the same are used in connection with the openings, D, substantially in the manner and for the purpose specified.

25,777.—Isaac Wait, of Watertown, N. Y., for an Improvement in Grain-cleaners:

I claim the combination of the separating sieves and the burr surfaced plates, by means of the vibrating lever, which gives a contrary motion to each at every revolution of the wheel or crank, substantially in the manner and for the purpose described.

25,778.—John Walker, of Sunbury, Ohio, for an Improved Locomotive Cross-cut Sawing Machine:

I claim, first, The arrangement of an upright steam-engine, A, on a truck frame, B, with a horizontal crank shaft D and a vibrating saw, L, substantially as set forth.

Second, The employment of conical pulleys, Q Q1 Q2 Q3, and shiftable bands, R R, in combination with the other machinery and the engine which operates the saw, for the purpose of guiding the machine when moving from place to place, substantially as and for the purposes set forth.

25,779.—Caleb C. Walworth, of Boston, Mass., for an Improvement in Cutting Screw Threads on Gas Pipes:

I claim the combination of two or more mandrels parallel, or nearly parallel to each other, and arranged to carry cutting tools with two or more vises, when these are arranged to revolve round a common center.

I also claim the combination of two or more sets of mandrels, as above, with two or more sets of vises, as above, when each set of mandrels is arranged to operate in unison with its corresponding set of vises.

I also claim the combination of two or more series of vises, one beyond the other, and arranged to revolve about a common center.

I also claim operating two or more vises, independently of each other together, by one wrench, and by the means and in the manner substantially as specified.

25,780.—Daniel Winder, of Cincinnati, Ohio, for an Improved Bed-bottom:

I claim the combination of the rings, a and b, and tension screw, c, operating in connection with a radial bed-cord or webbing, in the manner and for the purpose set forth.

25,781.—Oliver Evans Woods, of Philadelphia, Pa., for an Improved Life-preserving Buoy:

I claim a buoy arranged with two frames, A A', stays, D, and cross braces, E, and with a valve or valves, F and otherwise constructed and operated as described.

[This invention consists in arranging two frames, covered and united by some flexible air and water-tight material in such a manner that, when the frames are separated or parted through the agency of gravitation or of stays, the whole assumes the shape of a box, which can be rendered perfectly air and water-tight by closing the valve or valves which are attached to one or both of the frames and acting in conjunction therewith. In this state it serves as a buoy of great efficiency. By opening the valves, and especially the air valve, the buoy may be compressed into a very compact form, occupying but little space.]

25,782.—Francis G. Woodward, of Worcester, Mass., for an Improvement in Sewing-machines:

I claim the peculiar manner of working the looping-hook, d, by means of the wheel, F, and the double joint, E', substantially as specified.

25,783.—Le Roy S. White, of Waterbury, Conn., for an Improved Burnishing-machine:

I claim, first, The arrangement of the burnisher or burnishers in a burnishing-machine in a sliding-gate, or its equivalent, carried by and working perpendicularly to a rectilinearly reciprocating shaft, or its equivalent, substantially as and for the purposes described.

Second, Providing for the burnisher or burnishers employed on one side of the article to be burnished, in a so-called gate, or its equivalent, such a movement independently of that or those employed on the opposite side, substantially as described, as to produce the greater movement that is necessary or desirable, for the reason explained, on the convex side of any article of curved form.

Third, Fitting a burnisher in a burnishing-machine to a suitable holder, g, or its equivalent, in which it is permitted a free vibration, laterally, to the movement it makes in the burnishing operation, substantially as and for the purpose specified.

[This invention consists in a novel mode of applying and operating the burnishers in a burnishing-machine, whereby some important advantages are obtained in burnishing curved surfaces.]

25,784.—Geo. W. Banker, of Medford, Mass., assignor to himself and G. O. Carpenter, of South Reading, Mass., for an Improved Mode of Manufacturing Barrels, &c.:

I claim the method described of securing the heads of casks by means of the chamber, 5, and shoulder, e, as described.

Second, I claim a keg furnished with ears and a bale as described, for the purpose specified.

25,785.—Oliver D. Barrett (assignor to himself and Lears E. Smith), of Cleveland, Ohio, for an Improvement in Sewing-machines:

I claim, first, The crank, consisting of the disk, Q, and pin, O, in combination with the pin, o', in the pulley, Q', and hinge, R, whereby I am enabled to turn the machine up from the table designed for it to stand on, in order to adjust or thread the under needle, d, without unbanding the machine, substantially in the manner and for the purpose described.

Second, Hinging the foot-holder, F, to the head of the goose necks, B, in a position vertical to the feeding surface of the feeder, Y, substantially in the manner and for the purpose described.

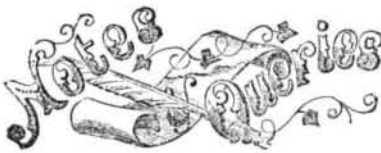
Third, The foot-holder, F, constructed and hinged as set forth, in combination with the rod, H, spring, I, foot, K, and feeder, Y, substantially in the manner and for the purpose set forth.

25,786.—Thomas A. Earl, of North Attleborough, Mass., assignor to himself and Charles A. Durgin, of New York City, for an Improvement in Bustles:

I claim the segment, G, supported as described, in combination with the projecting strut, B, slide, F, and strip, G, the whole being constructed and operated substantially as set forth and described.

25,787.—Wm. Gluyas (assignor to himself and Wm. H. O'Neill), of San Francisco, Cal., for an Improvement in Composition for Preparing Gold and Silver Ores for Amalgamation:

I claim the mixture or composition described, used with pulverized ores or tailings, the whole being brought to a boiling heat and being constantly agitated, thereby preparing the precious metals for a more perfect amalgamation with quicksilver.



25,788.—Stoughton B. Holden, of Woburn, Mass., assignor to himself and Parker Nichols, of Reading, Mass., for an Improved Burglar's Alarm:

I claim the arrangement of the candle-carrier, D, and its hammer, b, upon the torpedo post or standard, B, the trigger lever, g, and the grate or friction plate, C, the whole forming an improved, efficient and simple alarm, to operate as specified.

25,789.—John S. Lash, of Carlisle, Pa., assignor to himself and Franklin Knauss, of Allentown, Pa., for an Improvement in Straw-cutters:

I claim forming the bed, F, in sections, c, each being provided with a spring, e, and having the spiral beaters or followers provided with shoulders, g, substantially as shown, to prevent the lateral movement of the straw or stalks in the feed-box, under the action of the beaters or followers.

[The object of this invention is to obtain all the advantages of the spiral rotating knives or cutters hitherto used in a certain class of straw and stalk cutters, and at the same time avoid the disadvantages attending the same. This object is attained by using spiral beaters or followers attached to a rotating cylinder in connection with a stationary knife, the parts being so arranged relatively with each other that the same effect is obtained as with the spiral knives. The invention also consists in forming the bed adjoining the stationary knife in sections, each of which is allowed to yield or give to a certain extent, and having the spiral beaters or followers so formed with shoulders that the cutting device is rendered much more efficient than it otherwise would be.]

25,790.—Alfred Marsh (assignor to John Q. Dudley), of Detroit, Mich., for an Improved Method of Preventing Deposition of Carbon in Gas Retorts:

I claim the introduction into the retort, during the gas-making process, of chlorate of potash, or other substance which evolves oxygen, when heated for the purpose set forth.

25,791.—Charles O'Bryan (assignor to himself and Joseph S. Haldeman), of Salem, Ohio, for an Improved Tool for Cutting Round Tenons:

I claim the combination of the hollow, conical head, A, external nut, B, and plate, C, constructed and arranged as described, for adjusting and holding, when adjusted, the bits or cutters, or their guides, substantially as represented.

25,792.—Robt. Patterson, of Philadelphia, Pa., assignor to Horace Vaughn, of Providence R. I., for an Improved Solution for Thinning Lubricating Compound:

I claim a thinning solution applicable to the reduction of the lubricating compound, described in the patent of Vaughn & Hutton, dated Aug. 2, 1859, made of the substances and applied substantially in the manner specified.

25,793.—Thos. D. Richardson (assignor to W. Richardson), of New York City, for an Improvement in Pen and Pencil-holders:

I claim the arrangement and combination of the elongated tube, b, with the handle, A, and tubes, B, C, as and for the purpose shown and described.

[This invention is especially designed for the counting-room, and is intended to form a convenient article therefor: the parts being so arranged as to admit, by a single adjustment, the using of either a pen or pencil with one and the same holder. The invention consists in having a metal tube attached to a wooden handle or holder, the tube being so constructed that it may be firmly attached to the holder and receive both the pen and pencil slides, and also allow, with almost any length, a proper movement for each, so that they may be forced into and forced out from the tube as may be required.]

25,794.—Nathan C. Travis (assignor to himself, Nathan Johnson and Richard Emerson), of Alton, Ill., for an Improved Regulator Valve for Steam-engines:

I claim, first, The arrangement and combination of the valve-box, A, and casing, C, as and for the purposes shown and described.

Second, The arrangement and combination of the screwsocket, k, stem, j, rod, i, arm, p, groove, q, and band-wheel, J, so that by turning the band-wheel, J, the stem, j, may be elevated and depressed irrespective of the rise and fall of the rod, i, and without rotating the latter, all as shown and described.

[This invention consists in a valve of cylindrical form applied to work in a direction parallel with its axis within a cylindrical box containing two seats, and having between the said seats a series of diamond-shaped openings to admit steam through the valve to a surrounding annular steam casing, said valve, by a proper screw connection with the governor, being made to serve both as a governor valve and a stop valve.]

RE-ISSUE.

Jeremiah Stever, of Bristol, Conn., for an Improvement in Machines for Burnishing Metals. Patented May 1, 1855:

I claim the burnishing of silver-plated and other metallic ware, such as spoons, knives and forks, or other similar articles which have a concave, convex or other level surface, by an organized machine, requiring no other attention than being kept in proper order, adjusted to suit the article about being burnished, set in motion, and having the articles properly introduced to it successively, substantially in the manner set forth.

ADDITIONAL IMPROVEMENT.

Douglas Bly, of Rochester, N. Y., for an Improvement in Attaching Thills to Vehicles. Patented April 12, 1859:

I claim combining with the hook, A, a collar, G, having a reverse hook or lip, K, corresponding with the point, A, to form an eye therewith, together with the screw shank and binding-nut, H, substantially as and for the purpose specified.

EXTENSION.

Lewis Edwards, of Norwich, Conn., for an Improvement in Ruling-machines. Patented Oct. 9, 1845:

I claim causing the pens to be raised by the edge of the paper in its passage through the machine, thus causing each sheet to determine the length of its own lines.

DESIGNS.

Roswell Kimberly, of Ansonia, Conn., for a Design for a Clock-case Front.

James H. McLean, of St. Louis, Mo., for a Design for a Trade Mark.

Literary Notices.

MEMOIRS OF ROBERT HOUDIN. G. G. Evans, publisher, Philadelphia.

We have received from the above-named publisher the translation of those memoirs which are attracting so much attention in France and England. Houdin is the prince of conjurers, and his autobiography, written with the sparkling vivacity of the French, is one of the most readable of books. This work can also be procured from Dick & Fitzgerald, Ann-street, this city.

NEW YORK CITY REGISTER. H. Wilson, publisher, 379 Broadway.

This register contains lists of the members of the city government, courts, police bureau, asylums, churches, banks, insurance companies, newspapers, telegraph offices, hospitals, educational institutions, foreign consuls, expresses, secret societies, omnibus lines, ferries, libraries, miscellaneous societies, clubs, railroads, &c. It is a useful work of reference.

M. R., of Ala.—Convey our acknowledgements to the friend who has favored us with the recipe for making blackberry wine, and also for the excellent samples which have been forwarded to prove the reliability of the directions given.

H. V., of Conn.—Roast the oxyd of manganese in a close vessel, and you will obtain the calcined article to correspond with the purpose for which you wish to use it.

E. M. R., of Pa.—A. Frazee, No. 95 Fulton-street, this city, manufactures small lathes, and can supply tools for amateurs.

OSCAR NESMITH.—Please inform us in what town and State you reside, so that we may proceed with your business, and write to you intelligibly.

E. F., of Wis.—You can procure a "Tinner's Guide" by addressing Blinn & Battle, Detroit, Mich.

S. L., of Mass.—If you will send us the model and description of your invention, we will proceed to prepare the application without delay. You may also remit the government fee (\$30) in draft on New York, payable to our order. Inventors oftentimes suffer from their own neglect to prosecute their applications.

E. C. C., of N. Y.—There is no ground for a patent on the point you wish to cover in the construction of a rice-hulling machine. We think a claim to the arrangement, however, could be obtained. We have sent you our pamphlet of advice.

A. G., of Ohio.—We consider your case a doubtful one, and would advise a preliminary examination to be made at the Patent Office before incurring the expense of an application for the patent. To enable us to conduct this examination properly, we will require a sketch and description of the improvement. A pen and ink sketch will be sufficient. The examination fee is \$5.

G. W. G., of Maine.—Black lead crucibles are the best you can use for making experiments with scrap-iron to obtain steel.

J. F. D., of Pa.—Nine square feet of heating boiler-surface, and one square foot of grate surface, are allowed for a horse-power in stationary boilers.

W. H. W., of Pa.—Your article on graphite paint is inadmissible in its present form. You should have been more specific regarding its composition and the particular cases wherein it has been so successfully applied. This would have been pointed and interesting information. The antiseptic properties of graphite are admitted; but more than this is required for a desirable paint.

A. H. S., of N. H.—The silicate of soda is the substance which you wish to use in graining; but, as you state, "the alkali is to be neutralized. It will not answer your purpose, for it has been an excess of soda.

D. P. B., of Ind.—Plaster-of-Paris is calcined gypsum. Common plaster, which farmers employ as a fertilizer, is ground unroasted gypsum.

S. S., of Ind.—A patent could not be obtained for making journal-boxes of wood saturated in oil, and the end or cross-grain applied to the journal. This is an old method; and, though it is not much used, it is very good for some purposes. Solid pieces of fat pork and tallow are frequently used in the journal-boxes of engines.

W. H. W., of Conn.—No prize has been offered by European governments for a perpetual motion. They have more sense than thus to expose their folly.

S. R. J., of Pa.—You have not described your improvement for constructing railroads with sufficient clearness for us to judge of its novelty or merits.

H. L. M., of Pa.—Charcoal plates for galvanic-batteries are made by combining hard charcoal dust (obtained from gas-retorts) with flour paste, then allowing them to dry. Nitric acid is generally employed for them, the same as in the Groves battery. We prefer platinum to charcoal plates.

J. H., of Ill.—The minerals which you have sent us are iron pyrites, of no value whatever.

G. M., of N. Y.—We thank you for calling our attention to the misprint of which you speak. The elements of the atmosphere, being mechanically mixed and not chemically combined, vary somewhat (though very little) in their proportions. The following is about the average in 100 parts:—Oxygen, by volume, 20.55; by weight, 22.76. Nitrogen, by volume, 78.16; by weight, 76.15. Vapor of water, by volume, 1.25; by weight, 1.63. Carbonic acid, by volume, 0.04; by weight, 0.06. Your views in regard to the light of burning carbon and hydrogen are perfectly correct. You will find the subject thoroughly discussed in another column, in the article entitled "Illuminating Gas."

J. McM., of Ohio.—To case-hard iron, the article to be treated is covered with ground prussiate of potash and flour paste, then set aside to dry. After this, it is heated red-hot in a clear fire, or what is better, molten lead, then dipped into cold water.

J. R. W., of Iowa.—An artesian well is one in which the water flows up from an under seam above the surface. Such wells are generally formed in basins, where the rocky strata dip downwards, and they are supplied from distant elevations or the water would not be forced up to the surface.

C. E. P., of N. Y.—Neatsfoot oil is the best lubricant known to us for keeping belts pliable without injury to the leather.

L. L. R., of N. H.—What was the result of the steam fire-engine trial, on the 15th of last month, at Manchester?

S. & M., of N. Y.—We do not know where you can find a person to drill agates.

E. R. H., of N. H.—You can subscribe for "Hall's Journal of Health" by enclosing \$1 in a letter, addressed to W. W. Hall, M. D., No. 42 Irving-place, this city.

J. W., of Vt.—You cannot make paraffine from your peat-bog to compete in cheapness with that which is made at coal-oil works. We therefore do not advise you to commence the business.

R. E. R., of Va.—The answer mentioned did not refer to your press. We sent you the 150 copies of our paper ordered.

Money Received

At the Scientific American Office on account of Patent Office business, for the week ending Saturday, Oct. 15, 1859:—

J. D., of Pa., \$25; J. W. H., of Ind., \$30; E. A. W., of N. Y., \$35; D. W. C., of Ill., \$25; D. W., of N. Y., \$25; B. & C., of N. Y., \$40; E. B. C., of Fla., \$20; B. F. D., of Pa., \$25; E. A. W., of N. Y., \$55; N. D., of N. J., \$25; J. B. T., of Pa., \$55; G. V. B., of Pa., \$25; R. T., of Ohio, \$15; J. T. T., of Texas, \$20; G. W. D., of Ill., \$10; G. A. M., of N. Y., \$25; T. M., of Minn., \$25; A. A. D., of S. C., \$25; A. B., of Vt., \$50; J. B., of N. Y., \$30; J. J. M., of Fla., \$30; G. D., of Ill., \$30; W. J., of R. I., \$30; K. F. W., of N. H., \$30; W. F., of N. Y., \$30; D. D. F. D., of Mass., \$30; G. W. R., of Ill., \$30; A. B. F., of Ohio, \$53; J. G., of La., \$30; C. W. R., of Ga., \$25; J. M. G. Co., of Conn., \$100; J. E. H., of N. Y., 25; N. B., of Ill., \$25; V. B. S., of Pa., \$20; S. A. S., of Mo., \$25; C. C., of Iowa, \$30; E. T. W., of N. H., \$30; Mrs. E. B., of N. Y., \$10; J. R. S., of Conn., \$55; A. A., of N. Y., \$55; H. M. S., of Maine, \$30; H. S., of N. Y., \$30; J. A. H., of R. I., \$30; J. C. B., of Ohio, \$30; S. L. S., of Ill., \$35; H. W. C., of Conn., \$30; C. P. B., of Ohio, \$30; J. H. L., of N. Y., \$40.

Specifications, drawings and models belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturday, Oct. 15, 1859:—

B. & C. of N. Y.; D. W. of N. Y.; J. S. of N. Y.; D. W. C. of Ill.; J. C. R. of N. Y.; J. E. L. of Conn.; B. F. D. of Pa.; N. D. of N. J.; G. W. B., of Pa.; R. T. of Iowa; J. A. B. of Ky.; E. R. P., of N. Y.; J. A. S., of Mo.; E. T. V., of N. H.; J. L. W. of Ohio; W. B. R., of La.; A. B., of Vt.; J. J. M. of Fla.; C. W. R. of Ga.; J. W. C., of N. Y.; B. & C. of N. Y.; Mrs. E. B. of N. Y.; W. D., Jr., of Pa.; R. F. W. of N. H.; J. E. H. of N. Y.; R. H. of N. Y.; H. C. F., of Pa.; J. T. T. of Texas.

IMPORTANT TO INVENTORS.

AMERICAN AND FOREIGN PATENT SOLICITORS.—Messrs. MUNN & CO., Proprietors of the SCIENTIFIC AMERICAN, continue to procure Patents for Inventors in the United States and all foreign countries on the most liberal terms. Our experience is of thirteen years' standing, and our facilities are unequalled by any other Agency in the world. The long experience we have had in preparing Specifications and Drawings has rendered us perfectly conversant with the mode of doing business at the United States Patent Office, and with most 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 nine and four o'clock, 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 our office.

We are very extensively engaged in the preparation and securing of Patents in the various European countries. For the transaction of this business we 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-fourths 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 not limit the issue of Patents to Inventors. Anyone can take out a Patent there. A pamphlet of information concerning the proper course to be pursued in obtaining Patents through our Agency, the requirements of the Patent Office, &c., may be had gratis upon application at the Principal Office or either of the Branches. We also furnish a Circular of information about Foreign Patents.

The annexed letters from the last two Commissioners of Patents we commend to the perusal of all persons interested in obtaining Patents:—

Messrs. MUNN & Co. —I take pleasure in stating that while I held the office of Commissioner of Patents, MORE THAN ONE-FOURTH OF ALL THE BUSINESS OF THE OFFICE came through your hands. I have no doubt that the public confidence 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.

Immediately after the appointment of Mr. Holt to the office of Postmaster-General of the United States, he addressed to us the subjoined 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 Solicitors of Patents 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 ability, and uncompromising fidelity in performing your professional engagements. Very respectfully,

Your obedient servant, J. HOLT. Communications and remittances should be addressed to MUNN & COMPANY, No. 37 Park-row, New York.

A STEAM ENGINEER—ONE WHO HAS HAD seven years experience in running engines, and who is a practical mechanic, is now out of employment, caused by the stoppage of the manufactory where he was long employed, and wishes to procure a situation. The best references given. Address JOHN ERSMAN, box 2,996 New York Post-office. 17 2

PROFESSOR MAHAN'S WORKS.—MAHAN'S Elementary Course of Civil Engineering, 1 vol. 8vo., with numerous woodcuts, \$3; Industrial Drawing, with steel plates, 1 vol. 8vo., \$2; Treatise on Field Fortifications, numerous steel plates, 1 vol. 8mo., \$; Treatise on Advanced Guard, Out-post, &c., &c., 1 vol. 8mo., 75c.; Moseley's Mechanical Principles of Engineering and Architecture, numerous cuts, 1 vol. 8vo., \$3.50. Published and for sale by JOHN WILEY, No. 56 Walker-street, New York. * * * Copies mailed and prepaid on receipt of price. 1*

IMPORTANT ENGINEERING AND MECHANICAL works for sale by D. Appleton & Co., Nos. 346 and 345 Broadway.—The Artizan: a monthly journal of the operative arts, 16 vols. 4to., half-calf extra, \$30. The same, for 1858, cloth, \$1.50. The Builder: 16 vols. folio, half-calf (scarce), \$80. The same, for 1858, cloth, \$7. Civil Engineer and Architect's Journal: 20 vols. 4to., half-calf extra (scarce), \$125. The same, for 1858, cloth, \$7.50. The Engineer, for 1856, 1857 and 1858: 6 vols. folio, \$36. Journal of the Society of Arts: 6 vols. 8vo., half-calf extra, \$26. London Mechanics' Magazine: 56 vols. 8vo., half-calf (scarce), \$84. Professional Papers of the Corps of Royal Engineers: 10 vols. 4to., cloth (scarce), \$90. Abridgements of the Patents for Inventions, from 1617 to 1857: 14 vols. in paper, \$18. Smith's Treatise on Levelling: 1 vol. 8vo., \$2.75. Practical Treatise on Tunneling, \$6. Bourne on the Steam-engine, \$7.50. Practical Mechanics' Journal, for 1858, \$4.50.