

40,354.—Steam Pressure Regulator.—Joseph Nason, New York City:

I claim, first, The employment of the rotating coil, E, dense fluid, F, connection, I, leading from the vessel in which the pressure is to be regulated, and connection, K, leading to a damper or valve adapted to control such pressure, the several parts being arranged substantially in the manner and for the purpose herein set forth.

Second, I claim in connection with the above described rotating coil, the employment of the valve, J, or equivalent means of inducing a self-adjusting variable force opposing the pressure of the steam, substantially as and for the purpose herein set forth.

40,355.—Hoop Skirt.—Caesar Neuman, New York City:
I claim the employment of the self-adjusting waist-band, A, with elastic strips, a', in combination with bustle rings, B B', provided with sliding clasps, b', arranged in relation to the strips, a', and tapes, D, in the manner and for the purpose substantially as shown and described.

[The object of this invention is to make the waist-band and the bustle-rings of a hoop skirt self-adjustable, according to the varying thickness of the body of the wearer.]

40,356.—Sawing Machine.—Sanford W. Northrop, Albany, N. Y.:

I claim the arrangement of the reciprocating slides, B B', carrying the feed rollers, C, in combination with the rock shaft, D D', arms, b', and set screws, c c', and with the rod, E, connecting the cranks, d', the whole constructed and operating in the manner and for the purpose substantially as shown and described.

Also making the rod, E, adjustable toward and from the center of the rock shaft, D, as described so that the motion of the slides, B B', can be brought in any desired relation toward each other, and the timber cut in two or more parts as specified.

Also the hand screw, F, in combination with the slides, B B', and rock shaft, D, constructed and operating as and for the purpose set forth.

40,357.—Moulding Artificial Teeth.—James A. Pelton, Middletown, Conn.:

I claim, first, The application of a mold substantially as above described for the formation of a set of six front teeth, in one continuous, curvilinear block.

Second, As an article of manufacture, the production of six artificial teeth, corresponding to the six front teeth of the human jaw, with the gum attached, in one continuous, solid, curvilinear block, by means of a mold, substantially as above described.

40,358.—Watch.—Edward Favre Perret, Locle, Switzerland:

I claim so combining the seconds hand with the fourth or seconds wheel that the seconds hand can be stopped and permanently held or started at pleasure, without affecting the movements of the seconds wheel, substantially as set forth.

40,359.—Grain Drill.—O. M. Pond, Independence, Iowa:

I claim, first, The stationary lip, D', and hinged lip, D, in combination with the vibrating rake, I, arranged and operating as and for the purpose specified.

Second, I claim the adjusting nut, C', bolt, B, spring, E, and nut, F, in combination with the lever, G, arranged as and for the purpose described.

40,360.—Washing Machine.—Haskell Preble, Machias, Maine:

I claim the arrangement of the sliding carriage, D, rod, E, levers, F G, and weight, H, with the pressure board, C, and cylinder, B, in the manner herein shown and described.

[This invention consists in the employment or use of a rotating fluted cylinder and a serpentine fluted pressure board arranged with a weight, levers and connecting rod, in such a manner that the clothes may be subjected to a greater or less pressure as desired and cleaned thoroughly and expeditiously without the least injury.]

40,361.—Lamp Shade Supporter.—Christian Reichman, Philadelphia, Pa.:

As an improved article of manufacture I claim a lamp shade supporter with springs, a' b', and projections, c, cut at one operation in a single piece out of sheet metal and then bent in annular form with its ends secured by the pieces, f, and slots, e, e, or other fastening which will admit of the expansion and contraction of the supporter, substantially as and for the purpose herein set forth.

[This invention consists in stamping or cutting the shade supporter in one piece out of a plate of sheet metal, and in such a manner that it will be straight when first cut, and be capable of being bent in the form of a circle or band and admit of being adjusted to the shade with the greatest facility.]

40,362.—Exploding Torpedoes, Mines, &c.—Sven Eskill Sanborn, Philadelphia, Pa.:

I claim, first, The employment or use for the purpose of exploding torpedoes, &c., of an apparatus, substantially as herein described, whereby the time when the explosion will take place can be determined and adjusted beforehand with perfect accuracy.

Second, The notched disk, V, lever, W, arm, v, stop, u, cam, Y, trigger, K, and hammer, I, in combination with a clock movement, constructed and operating in the manner and for the purpose substantially as set forth.

Third, The application of the notched disk, V, to the index hand, U, moving on the dial plate, O, substantially as and for the purpose specified.

[An engraving and description of this invention will be published in an early number of the SCIENTIFIC AMERICAN.]

40,363.—Hoop Skirt.—Leopold Sanders, New York City:

I claim the braids or cords, c, in combination with the clasps, D, the above parts being applied to the tapes, B, and all arranged as and for the purpose herein set forth.

[This invention relates to a new and improved means for securing the hoops of the skirt to the tapes, whereby a very firm and strong connection is obtained between the parts aforesaid and all shifting or moving of the same out of their proper relative position effectually prevented.]

40,364.—Machine for Coating Oil Cloth.—Milo Sawyer, Cincinnati, Ohio:

I claim the application of an adhesive, elastic or tractive cylinder, which draws the cloth through the machine or under a scraper, for the purpose of coating cloth in long pieces, as herein above described, thus obviating the necessity of stretching it in frames, or cutting it in short pieces.

40,365.—Grain Drill.—S. C. Schofield, Freeport, Ill.:

I claim, first, The employment or use of the rods, h, attached to the vibrating frame, E, and passing through the perforated plate, d, and bottom of the seed box, D, the rods, h, being provided with leathers, j, and all arranged to operate as and for the purpose set forth.

Second, The arrangement and combination of the bar, G, with the bars, a, P, attached to it, standards, g, teeth or plows, H', lever, I, and bar, s, all arranged as shown, to admit of the adjustment of the teeth or plows, as set forth.

[This invention relates, first, to an improvement in the seed-distributing apparatus, whereby the seed is discharged in an uniform manner and in greater or less quantity on a given area as may be required, and the distribution of the seed stopped entirely at any time at the will of the driver or operator. The invention relates, second, to an improvement in the arrangement of the plows or covers, whereby the same may be adjusted at any angle required to obtain the proper depth of penetration, and also entirely elevated above the surface of the ground when required to be inoperative.]

40,366.—Heater.—Edwin Sprague, Alleghany City, Pa.:

I claim the arrangement of the pipe, e, register, o, chamber, x, pipe, y, receiving chamber, h, branch, j, damper, r, and vessel, t, the whole being constructed, arranged and operating substantially as herein described and for the purpose set forth.

40,367.—Cultivator.—R. H. Springstead, Constantine, Mich.:

I claim the arrangement of the lever, C, sliding bar, F, its attached

teeth, H, and their hinged bar, E, with the hinged bar, I, its attached teeth, lever, h, i, and standard, J, all in the manner herein shown and described.

I also claim the arrangement with the hinged bars, E, I, axle, C, and wheels, B, of the guards, b, c, all operating together in the manner herein shown and described.

[This invention consists in the arrangement of stay bars or guards extending from the ends of the frame outside of the wheels to the ends of the axles, in combination with braces running from the axles to teeth which run outside of the wheels, in such a manner that the wheels are fully protected from lateral obstructions, and at the same time the teeth are enabled to run close up to a fence or to a stump or any other obstruction on the side of the cultivator. The invention consists, further, in the arrangement of a laterally sliding bar with two hinged teeth, in combination with a hinged vertically adjustable bar and suitable hand levers, in such a manner that the driver is enabled to adjust the plows in a lateral and in a vertical direction whenever he finds it necessary to do so.]

40,368.—Lamp.—W. G. Sterling, Bridgeport, Conn.:

I claim the combination of the skeleton bridge, H, with the tube, G, and also in combination with the disk, L, to operate substantially as described.

40,369.—Filter.—Charles Süssner, a citizen of Great Britain residing in the United States:

I claim the arrangement of the two filters or filtering chambers, C C', with reference to the inlet and outlet pipes extending therefrom and to the chamber, B, and its outlet pipe, d, in the manner and for the purpose substantially as set forth.

I claim also the movable diaphragm, c c', made to slide in the filtering chamber for packing or loosening the filtering material substantially as described.

40,370.—Machine for making Dough, Paste, &c.—Ebenezer Stevens, London, England. Patented in England Dec. 24, 1862:

I claim the dough-mixer hereinbefore described, composed substantially of prongs secured to a cranked axle or bar, so that it may be readily withdrawn from the dough when the axis is uppermost.

I also claim the combination of a stationary frame to support the gearing by which the dough-mixer is worked with a removable mixing vessel, in such manner that the connection of the gearing with the dough-mixer in the mixing vessel may be disconnected to permit the dough to be conveyed in the mixing vessel to any part of the bakery, substantially as herein set forth.

I also claim the combination of the dough-mixer with a flour hopper and flour agitators, or their equivalent, whereby the flour thrown in mass into the flour hopper is delivered gradually to the mixing vessel, and also the combination of the flour hopper and its agitators with variable slides to regulate the discharge of flour to the mixing vessel beneath, substantially as herein set forth.

I also claim the combination of the flour hopper and the mixing vessel with a dusting board between the two to distribute the flour into the mixing vessel, substantially as herein set forth.

I also claim the combination of the flour agitators, or other moving appendages of the flour hopper, with the dough-mixer, by a removable connection, so that the former may be thrown out of gear when the flour is exhausted, substantially as herein set forth.

I also claim the combination of the dough-mixer with change gearing, so that it may be moved rapidly when the dough is thin and more slowly when the dough becomes tough, substantially as herein set forth.

I also claim the combination of the dough-mixer with duplex gear, at the two ends of the machine, so that an equal motion is communicated to both ends of the dough-mixer simultaneously, substantially as herein set forth.

I also claim the combination of the driving spindles of the dough-mixer at the two ends of the machine with one shifting lever, so that both driving spindles can be simultaneously withdrawn from the dough-mixer, substantially as herein set forth.

I also claim the combination of a mixing vessel fitted with a mixer, with a jacket forming a double bottom, to permit the temperature of the mixing vessel to be varied by the application of water or steam, substantially as herein set forth.

40,371.—Furnace for re-burning Bone-black.—Gottfried Thulemeyer, New York City:

I claim, first, The horse-shoe shaped retorts, C, arranged in the furnace, A, in the manner and for the purpose substantially as herein shown and described.

Second, The partition plate, E, when made whole or in sections, and provided with apertures, b, in combination with the retorts, C, and furnace, A, all constructed and operating substantially as and for the purpose set forth.

Third, The arrangement of one or more series of retorts, C, between two fire-plates, B B', in combination with the particular plate, E, side flues, d, e, and end flues, f, all constructed and operating in the manner and for the purpose substantially as specified.

40,372.—Manufacturing Tin Cans.—J. E. Vansant, Louisville, Ky.:

I claim the stationary and movable jaws, A C, provided with the loop clamp, D, and operated through the medium of the levers, E G, or their equivalents, in combination with the former, H, all arranged to operate as and for the purpose herein set forth.

[This invention relates to a new and improved machine for manufacturing cylindrical tin cans, and it consists in the employment of a stationary and movable jaw, having a loop clamp attached to them; the jaw being operated by a treadle and levers, the latter being provided with a weight and all arranged and used in connection with a former.]

40,373.—Signal Apparatus for Railways.—Eugeni Vincenzi, Parma, Italy:

I claim arranging and combining apparatus, substantially as hereinbefore described.

40,374.—Water Elevator.—T. J. Wadleigh, Sutton, N. H.:

I claim the two drums, C C, placed loosely on the shaft, E, connected by gears, as shown, and provided with levers, I I, in combination with the locking device for alternately connecting the drums to the shaft, the same consisting of the pivoted button and plate, H, and the shoulder, A, in projection, K, at the inner ends of the drums.

I further claim the particular manner of operating the levers, I, to unlock or detach the drums from the shaft, B, to wit, by means of the spiral grooves, c, c, in the drums, C, with the ropes or chains, d, working thereon, substantially as described.

[This invention consists in the employment of a windlass provided with two loose drums, to each of which a bucket is attached by a rope or chain, said drums being provided each with a gear into which a pinion meshes, and each also provided with a lever; the above parts being used in connection with a locking device, and all arranged in such a manner that, by a continuous movement or rotation of the windlass in one direction, the buckets may be raised and lowered, the two buckets moving in opposite directions, that is to say, one being raised while the other is lowered, and the filled bucket, as it reaches its highest or culminating point, tilted and deprived of its contents.]

49,375.—Heater.—Anton Weller, Albany, N. Y.:

I claim the series of contracted air passages, o' c' c', formed and applied as specified, when combined with the fire pot, A, hollow base, D, ash pit, B, chambers, E F, cylinders, H I, cap, J, and flue, G, all constructed, arranged and operating in the manner and for the purposes herein shown and described.

[This invention consists in arranging a cold-air or air-heating passage with a draught flue and fire chamber, of a stove or air-heating furnace in such a manner that a very efficient heat-radiating and air-heating stove are combined, and the greatest possible amount of heat obtained from a given quantity of fuel.]

40,376.—Gas Blow-pipe.—A. H. Wood, Boston, Mass.:

I claim the employment, in a gas blow-pipe, of one or more reservoirs for containing water or other volatile substance, and provided with a means of heating the same, so as to produce vapor to combine with the gas and flame for the purpose of intensifying the heat, substantially as described.

I also claim the cap, F, provided with holes, f, and so arranged as to control the admission of air through the holes, e, in the manner and for the purpose substantially as herein described.

40,377.—Paddle-wheel.—Leonard Ames, Wanbeck, Wis., and Melville Miles, Pepin, Wis., assignors to Leonard Ames:

I claim a paddle wheel having its floats or blades constructed of a flat board, G, with a series of parallel blocks, D, attached to it at right angles to said blocks, beyond the board, being of wedge-shape in their transverse section, substantially as and for the purpose set forth.

We further claim having the outer edge of the boards, C, rounded as shown at a, and also the outer and inner ends of the blocks, D, rounded as shown at b, d, for the purpose specified.

40,378.—Sugar Evaporator.—David Beasley, Boone Co., Ind., assignor through mesne assignments to T. C. Bartle, Independence, Iowa:

I claim the combination and arrangement of the evaporating pans, B C D, and water damper, E E E, for the uses and purposes substantially as set forth.

40,379.—Skirt Wire.—William Darker, Jr. (assignor to J. B. Thompson), Philadelphia, Pa.:

I claim skirt wire with a woven covering as a new manufacture, substantially as herein described.

40,380.—Field Roller.—Chester Dunham (assignor to himself and William Heston), Bedford, Ohio:

I claim the rollers, D D, fitted in frames, C C, attached to the box, A, or a suitable frame, as shown, in combination with the roller, H, attached to a box, G, or a suitable frame, which is connected to the frame or box, A, of the rollers, D, by an universal joint, E, all arranged as and for the purposes herein set forth.

[The object of this invention is to obtain a roller for rolling land which will conform to the inequalities of the surface over which it passes, and thereby perform its work in a more thorough manner than those previously constructed.]

40,381.—Curtain Fixture.—E. M. Judd (assignor to H. L. Judd), New Britain, Conn.:

I claim the pin, d, formed with the mortise, l, for receiving the tape, and with the shoulder, 2, for securing the metallic end, c, to the roller, a, as specified.

40,382.—Covering for the Head.—T. S. Lambert, Peekskill, N. Y., assignor to J. O. Wood, Southfield, N. Y.:

I claim the application within a covering for the head, or to any part of wearing apparel, of sand paper, or its equivalent, substantially as and for the purpose described.

40,383.—Apparatus for Stretching Hat Bodies.—T. G. Oakley and W. R. Finch, Brooklyn, N. Y.:

We claim the two blocks, B B, attached to the pivoted arms, C C, and operated through the medium of the cam, H, and spring, D, or their equivalents, substantially as and for the purpose herein set forth.

40,384.—String-bearing for Pianofortes.—R. A. Tooker New York City, assignor to himself and W. B. Bradbury, Bloomfield, N. J.:

I claim the string bearing composed of a screw having its head slotted for the reception of the string or strings and a screw thread, or such slotted head fitted with a nut, for the purpose of securing the parts of the head upon the string or strings, substantially as and for the purpose herein specified.

[This improved string-bearing, which may be employed at either or both ends of the string, and which serves the purposes of securing the string at a proper elevation for accurately regulating the length and direction of the vibrating portion of the string and maintaining a proper distribution of the scale, consists of a screw having a thread on its stem or body, by which to secure it in the sound-board bridge or to the sound board itself without the use of the bridge, or in the wrest plank or wrest-plank bridge, and a slotted head having a screw thread on the exterior, for the reception of a nut by which to clamp the string or strings within the slot or slots, in such manner as to give them a firm and durable bearing both above, below and on both sides.]

40,385.—Projectile for Fire-arms.—O. G. Warren (assignor to Joshua Barnes), New York City:

I claim the combination of the false powder chamber and the hollow shot, to hold all the charge, and to sustain the greater part of the shock of the explosion, in the manner described.

40,386.—Grinding and smoothing Shot and Shell.—Jarvis Williams (assignor to E. T. Trofitter), Boston, Mass.:

I claim, first, The adjustable frame, F, provided with the concave rollers, G G, in combination with any suitable grinding or polishing wheel, D, substantially as set forth and for the purpose described.

Second, Making the rollers, G, in two parts, capable of turning in opposite directions, substantially as and for the purpose described.

DESIGNS.

1,834.—Reel.—Emma C. Wooster, New York City.

1,835.—Plates of a Parlor Stove.—Isaac De Zanche (assignor to Bridge, Beach & Co.), St. Louis, Mo.

1,836.—Cooking Stove.—Isaac De Zanche (assignor to Bridge, Beach & Co.), St. Louis, Mo.

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Table with 2 columns: Fee description and Amount. Includes 'On filing each caveat', 'On filing each application for a patent', etc.

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H. C. J., of N. J.—The lathe you speak of is a good one for the purpose for aught we know to the contrary.

O. T. B., of Pa.—Construct your boiler passages with bridge walls, and you will obtain better results than if not so fitted.

U. S., of Mich.—The typographical error in your article is not important, although we regret it, and are careful that no such irregularities occur.

A. S., of Vt.—We are not in possession of the information you desire to obtain in regard to prices of barrel headings, profits, &c. It would require a great deal of time to obtain it, and we are not disposed to undertake it.

S. F. P., of Mass.—We do not know of any good machine for cutting down standing wood, but if you want a sawing machine for cutting wood into lengths, you can procure one from F. J. Richmond, Ashford, Conn.

N. C. S., of U. S. A.—The idea of operating an engine by successive explosions of powder is not new. It is possible that the construction of your engine differs from those heretofore made, and if you desire, we can determine this question by an examination in Washington, upon receipt of the usual fee of \$5.

E. H. W., of Wis.—Such a work as you desire on hominy mills and grain elevators has not yet been published.

J. N., of Maine.—We do not know of any treatise or manual published on book binding; we are pleased to see that you manifest a desire to keep up with the improvements of the day.

W. H. H. & Co., of Ohio.—To melt your zinc and prevent it from evaporizing, it being a very volatile metal, you should cover its surface, in the vessel in which it is melted, with soot or pulverized charcoal.

G. F. W., of N. Y.—You will find a description of Professor Henry's electro-magnetic mechanism on page 560 of Booth's "Encyclopedia of Chemistry," and you will find an illustrated description of Dr. Page's electro-magnetic engine on page 65, Vol. VII. (old series) of the SCIENTIFIC AMERICAN.

G. S. L., of N. H.—The best way to become a mechanical engineer is to apprentice yourself to a machinist, and learn the use of tools thoroughly; in the meantime study all the mathematical works you can get hold of, also natural philosophy and such other sciences as you can find time for.

E. M. T., of N. Y.—We have published in the back volumes of our journal engravings of a large number of artificial legs. We refer you to our files, which you are at liberty at any time to examine in the office.

A. W., of Conn.—Correspondents who write to us for favors cannot expect to receive answers unless they sign their names to their letters. We cannot recommend any composition for the purposes you name.

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Specifications and drawings and models belonging to parties with the following initials have been forwarded to the Patent Office, from Wednesday, Oct. 21, to Wednesday, Oct. 23, 1863:—

- List of initials: L. A. F., of N. Y.; H. T., of N. Y.; H. S. L., of Mo.; R. T., of N. Y.; D. S. S., of Ind.; J. A., of Pa.; C. H. G., of Mass.; S. H., of N. Y.; H. & H., of N. Y.; S. W. H. W., of N. Y.; W. E. W., of N. Y.; F. J. R., of Conn.; R. S. H., of Iowa; J. H. P., of Pa.; J. T., of N. Y.; G. F., of N. Y.; J. D., of N. J.; I. R., of D. C.; S. G. T., of Md.; F. H. M., of Mass.; H. & S., of Ill.; T. F. C., of Va.; J. M., of Cal.; V. & M., of N. Y.; S. B., of N. Y.

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