

ISSUED FROM THE UNITED STATES PATENT-OFFICE

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43,080.—Solution for gilding China, Glass, and other Wares.—Louis P. Angenard, New York City:

I claim the chemical proportion and preparation of the solution and its application to china, Dutch ware, glass ware and other potteries, as described, on the above.

43,081.—Awning.—Wm. Armstrong, Milwaukie, Wis.:
I claim the awning constructed of a series of folding slats combined and operating together with a supporting frame, in the manner substantially as herein shown and described.

[The construction of this awning is quite novel. Instead of canvas, which is liable to rot, mildew and become torn, the inventor constructs the awning of light wooden slats, which fold one over the other, like the leaves of a fan. Thin metallic slats might be employ ed. The slats are arranged on a suitable frame, and there are two pulling cords, one of which spreads the awning, and the other pulls or folds it up. Nothing can exceed the convenience of this improvement, while it is cheap and simple of construction.)

43,082.—Shaping the heels of Boots and Shoes.—Eben J. Beane, Providence, R. I.:
I claim the combination of a cutter, substantially as described, with a ridged or gaging roller, d'and a yielding center stud, g, substantially as described for the purpose specified.

with a riaged or gaging roller, at and a yielding center stud, g, substantially as described for the purpose specified.

43,083.—Photographic Card Press.—J. B. Blair, Philadelphia, Pa. Ante-dated May 24, 1864:

I claim, first, The employment in a photographic card press of a small polishing roller, U, between two larger sustaining rollers, D and E, the three being dranged so as to operate together substantially in the manner described, for the purpose specified.

Second, I claim the application, to a photographic card press, of the adjustable deflector, F, the same being constructed and applied so as to operate upon cards, substantially in the manner set forth and described, for the purpose specified.

Third, I claim sustaining the pillow-blocks of the rollers, of a photographic card press, by means of an angular supporter, G, constructed and applied so as to rest with its angular bottom edge, g3, only upon an adjussable base of any suitable kind, which will pennit itto vibrate thereon so as to adapt itself to the rollers, as described and set forth, forthe purpose specified.

Fourth, I also claim the employment of a hand-wheel, H, applied to the card-supporting roller, as described in figure I, for the purpose specified.

specinea.

43,084.—Skiff or Boat.—W. E. Bond, Cleveland, Ohio: I claim the described flat bottom skiff in two sections, A and B, of unequal lengths, and so formed that one section will pack into the other in combination with the links or connections, substantially as and for the purpose hereinbefore set forth.

43,085.—Post-hole Digger.—Jonathan Boone, Clinton-ville, Ky.:

1 claim a post-hole digger having two or more cutting blades, B, at tached to a common handle, A, as and for the purpose specified.

Also the combination of the pick, C. with the handle, A, and blades, B, as and for the purposes set forth.

[This invention consists in au instrument for digging post holes, provided with two or more blades or cutters attached in a position parallel to each other to a common handle or staff, in such a manner that on pushing the blades down in the ground, the carth is held between them, and on raising the instrument it raises the dirt with it, and a hole is produced just the size of the post or a little less, and if said post is driven down with a maul or siedge, it will be perfectly solid and firm without ramming.]

43,086.—Portable Screw Press.—Charles D. Brand, Oak Hill, N. Y.:
I claim, in combination with the adjustable bail, C, the fastening, H, when constructed and operating as herein described.

43,087—Vegetable Boiler.—Clarissa Britain, St. Joseph, Mich.:

Mich.:

I claim, first, A vegetable boiler constructed with a perforated flange, d, surrounding its bottom edge and openings, f f, in its side, provided with a closing gate, h, substantially as and for the purposed described.

Second, The combination of annular flange, d, and detachable base block, C, with the vegetable boiler, constructed and operating substantially as herein described.

Dish-drainer.—Clarissa Britain, St. Joseph.

43,088.—Dish-drainer.—Clarissa Britain, St. Joseph, Mich.:
I claim, first, An apparatus for draining and drying dishes and other articles consisting of a box, A, having a perforated inclined bottom, a, and one or more partitions, cd., substantially as described.
Second, The combination of a drainer, A, with a reflecting cover, B, substantially as described.
Third, Providing the drainer, A, and a reflector, B, with detachable hinges and receiving socket portions, substantially as and for the purposes described.
Fourth, A draining and drying apparatus constructed and operating substantially as described.

ing substantially as described.

43,089.—Clamp for Wringers.—Thomas Brooks, Middle-field. Conn.:

I claim the employment of the oscillating jaw, D, in combination with the screws, E, and jaws, B C, steaded in place by the orifice, G, substantially as and for the purpose described.

43,090--Steam Trap.-Charles H. Brown, Fitchburgh,

Mass.:

I claim my improved steam trap, having its single expansion tube.

A, the valve opening, a, the valve c, the valve lever, D, the arm of
tuberum supporter E, and the lever operating rod, E, arranged and
applied together substantially in manner so as to operate as specified

43,091.—Article of Food and Diet from Cerealine.—James E. Brown, Philadelphia, Pa.: claim the procuring of cerealine from the meal of unbrand wheat, or other grains by bolting and dissolving the same, and imanufacture into articles of food and diet, substantially in the manner and for the purposes hereinabove set forth.

43,092.—Tool for boring Butter-molds.—John S. Bullard, Chagrine Falls, Ohio:
I claim the above described boring tool when constructed and applied to the purpose substantially as set forth.

43,093.—Attaching Buckles and Loops.—Lucius C. Chase Boston, Mass. :

I claim attaching loops and buckles to straps by means or the metallic plate, E, and rivets, f and g, substantially as and for the purpose described.

43,094.—Corset Fastening.—Samuel Chapman, New

York City:
I claim a corset fastening arranged and applied with detachable nountings, substantially as described.

43,095.—Cider Mill.—Orlando Clarke, Rockford, Ill.: 43,095.—Cider Mill.—Orlando Clarke, Rockford, Ill.: I claim, first, The combination of two grinding disks (one or both of which has a convex, conical grinding surface) when one of said disks rotates faster than the other, to impart a rolling motion to the fruit, as herein described.

Second, The combination of the convex, conical, grinding disks, and the oblique independent shafts with the driving pinions of different sizes on the counter shaft, substantially as described, for the purpose set forth.

Third, The combination of the grinding disks and gearing with the shells, E E', when arranged and operating as and for the purpose described.

Fourth, The combination of the disks, the gearing, the sheller, and the hopper, with the main frame, substantially in the manner described.

scribed.

43,096.—Quartz-crusher.—Michael Henry Collins, Chelsea, Mass.:

I claim in my improved crushing and pulverizing mill, in which the rotary trough, wheels and breakers or crushers are arranged together and within case, H, as above described, the arrangement of each of the pulverizing wheel shafts K, and its rocker frame or shaft, L, and their journals and bearings, relatively to the said case, H, in manner substantially as explained, the said shaft, K, under such arrangement being made to project out of the case, H, and to have its journals and bearings and its rocker frame or shaft, L, and the journals and bearings thereof. disposed outside of the case, substantially as specified.

And I also claim the arrangement of the shafts, K. L. and their

as specified.

as specified.

And I also claim the arrangement of the shafts, K, L, and their journals and bearings relatively to each other, as described, when disposed with respect to the case, H, and the pulverizing wheels arranged therein, substantially in manner as specified, the said shafts, K and L, under this latter arrangement, having their axes at right angles to one another.

I also claim the rotary grinding trough as made with the lip, I, arranged with respect to its wings, m m, and the receiving trough, it is possed below the rotary trough.

disposed below the rotary trough.

43,097.—Machine for making Lamp Wick.—Joseph M. Connelly, Wheeling, West Va.:
I claim a machine constructed substantially as above described, for making tubular wicks with cotton or other filling, consisting of cutersfor cutting the muslin or other fabric into strips of suitable width, the folding apparatus, and contrivance for inserting the cotton or other filling, the ironing cylinder, and the cutting rollers for severing from the wicking, thus made, pieces of proper length for wicks. Also the mode of rolding the wrapper by means of a series of folders through which the muslin or other fabric passes, having apertures so shaped as to turn up the edges and fold them over, making wrappers of uniform with, substantially as hereinbefore described. Also, the mode, hereinbefore described, of inserting the cotton or other filling in the wick as the wrapper is being folded.

Also, the pasting apparatus consisting of a paste trough, E, guides u, rod, v, and scraper, w, for the pasting strip, constructed and arranged in relation to the folding apparatus, substantially as described.

Also, the use of a heated cylinder for ironing and driving the wick.

Also, the use of a heated cylinder for ironing and drying the wick, and giving it a flattened shape.

43,098.—Suture Instrument.—Hugh M. Cooper, Xenia,

43,098.—Suture Instrument.— Hugh M. Cooper, Xenia, Ohio:
I claim, first, the arrangement of curved shafts, A and G guides, J J', springs, K, K', foot, H. finger rings, I I', knob, B, and suture levels. Our devices substantially equivalent; the whole being combined and operating substantially as set forth.
Second, The curved shaft, A, notched and sere w threaded as described in the described combination with nut, F, and notched suture needle, D.

needle, D.

43,099.—Bridge.—Albert Cottrell, Newport, R. I.:
I claim the above described combination and arrangement of the
bond timbers, the balance weight supporters the screw bolts and
stretchers of the two side beams or levers, the whole constituting the
half of a bridge frame, of the character specified.

13,100.—Magnet Needle threader.—Oliver Cox, Washington, D. C.:
I claim a magnetized needle threader.

1 claim a magnetized needle threader.

43,101.—Reaping Machine.—Oliver Perry, Crawford, Wabashaw Co., Minn.:

I claim the construction, attachment, and arrangement of the hinges, b, from which the swinging apron is suspended to receive the grain, substantially as and for the purpose described.

I also claim the construction of the apron, f, with its teeth, 999, and flanges, ii, on which the grain is received when cut by the sickle, substantially as and for the purpose described.

43,102.—Bullet Machine.—J. D. Custer, Norristown, Pa.: I claim the combination of the turn-table, or transporting wheel, or analogous device, with the shears, the cylinder and pistons, and the automatic lathe, for the purpose of making pressed and turned bullets, substantially as described.

43,103.—Portable Railroad Switch.—Phylander Daniels, Leroy, N. Y.:
I claim the two bars, A A', constructed as shown and provided with the clamps, B B', in combination with the bars, C C', G c', cither or both pairs comected to the bars, A A', by joints and secured in position, substantially as and for the purposes set forth.

I further claim the plate F, when used in combination with the bars, A A', C C', for the purpose set forth.

[This invention consists in the approximant and a secured in combination with the bars, A A', C D', for the purpose set forth.

[This invention consists in the employment or use of jointed bars provided with clamps and fitted to the rails in such a manner that the device may be used as a temporary switch without disturbing the rails, and applied at any point, no frogs nor any other parts, except those pertaining to or forming a part of my invention, being required. The invention is also applicable to the adjusting of cars on the track, and may be applied to the rails with the greatest facility, to answer

43,104.—Spring Bed-bottom.—John and Samuel Danner, Canton, Ohio:

We claim unting and supporting the slats by means of interposed springs, upon and within the walls of the brackets, E, which brackets are removable and replaceable at pleasure, all substantially as described and represented.

43,105.—Cupboard Latch.—Edward Doen, New Britain. Conn.

I claim as a new improved article of manufacture a cupboardach, substantially as shown and described.

43,106.—Plaited Shirt Bosom.—Abraham Drey, Baltimore, Md. Ante-dated June 5, 1864:
I claim uniting the surface-ridged or creased material to the shirting, or back liming of the shirt bosoms, by stitching through the creases or ridges and through the lining, substantially in the manner described.

43,107.—Plaited Shirt Bosom.—Abraham Drey, Balti-

more, Md. Ante-dated June 10, 1864.: I claim the new product for shirt bosoms, shams, etc., substantially as herein described, producing by ridging the surface material on its inner side, and fastening such ridged material in front of the ridges to a backing, substantially as set forth. 43,108.—Manufacture of Watch Keys.—George H. Fuller, Pawtucket, R. I. :

I claim making a key pipe for watch keys by the method and on the principle substantially as herein described.

43,109.—Ratchet Drill.—Henry Getty, Brooklyn, N. Y.: I claim, first, The body, A, with its interior ring or flange, a, and Second, for the purposes described. Second, The screw, C, constructed as shown, for the purpose speci-

Second, The screw, C, constructed as shown, for the purpose speci-fied.

Third, The handle, D, with its eccentrically curved recesses and projections or lips, F F, substantially as described for the purposes specified.

Fourth, The eccentric sliders, E E, constructed as shown, for the surposes specified.

evalue, the eccentric sheers, E. E., constructed as shown, for the purposes specified.

43,110.—Breech-loading Ordnance.—William F. Goodwin, Powhatan, Ohio:

I claim, first, A swinging yoke or breech-piece, constructed substantially as described, with cheeks, B', by which it is secured to the gun without requiring the employment of trunnions, screws, or botts. Second, In combination with the above I claim a cannon formed with an enlargement, A', and recesses or countersinks, a receiving and securing the ends of the yoke, and constituting the bearings on which it is oscillated, substantially as explained.

Third, The doubly-jointed swinging arms, 12 13, for carrying the breech plug, I, and permitting the ready insertion and withdrawal of the same, substantially in the manner specified.

Fourth, The spring, 13, employed in the manner described, to close the joint at the rear of the breech plug, and loosen or expel the latter when the yoke is turned back.

Fifth, I claim the combination of the racks, E. F., and loose pinicn, G. for operating the swinging breech yoke, B, in the manner explained.

43,111.—Breech-loading Ordnance.—Wm. F. Goodwin,

Powhatan, Ohio:
I claim, first, The swinging yoke or breech piece, B, provided with arms, b b, and concave recesses, b' b', fitting over the convex ends of cylindrical or partially cylindrical projections, C C, substantially as and for the purposes specified. yindrean or particulary constraints. From the indirect many constraints and for the purposes specified. Second. The flanges, d d, fitting in annular grooves, c c, in the proceedings, C C, for preventing the spreading of the arms.

43,112.—Artificial Fuel.—Wm. Halstead, Washington, D. C., and Oliver S. Halstead, Jr., Newark, N. J.: We claim the combination and mixture of the ligredients, in the manner and in the proportions above described.

13, 113.—Clothes-dryer.—Thomas George Harold, Brool lyn, N. Y.:

I claim, first, A series of folding bars jointed to each other at the ends, and at a point nearer one end than the other of said bars, that the frame rises when it is opened, substantially as specified.

Second, I claim the arrangement of the sustaining legs in comb nation with the said folding frame, as specified.

nation with the sale found frame, as specified.

43,114.—Valve-gear for Steam Engines.—Robert Heys Philadelphia, Pa.:

I claim, first, The valve-spindle, D, of a steam engine, the link, E eccentric rod, G, and arm, F, in combination with theweighted lever k, and link, h, or their equivalents, whereby the motion of the governor-rod may be imparted to the link, as set forth for the purposs specified.

k, and link, h, or their equivalents, whereby the motion of the governor-rod may be imparted to the link, as set forth for the purpos specified.

Second, The wheels, N and N', lever, P, and pawls, e and e', with the shield, t, when the position of the latter is regulated by the governor, and when the whole is applied to the raising and lowering f the link, E, substantially as and for the purpose herein set forth.

43,115.—Thread tension and Thread delivery in Braiding Machines.—Liveras Hull, Charlestown, Mass.:

I claim the improved thread tension and delivery mechanism, constructed substantially as explained, or in other words, as having a brake, or lever and brake, applied to the bobbin and its stand and so as to be operated by the thread and by the tension weight, substantially as specified.

tally as specified.

43,116.—Harvester.—Stephen Hull, Poughkeepsie, N.Y.:

I claim, first, The extended braces, B B', of the wheel frame. A. so constructed and arranged as to constitute the supports for the apron, C, and also an elevated bridge, b, for the driver's seat, substantially as described.

Second, A reciprocating reel bar which is reciprocated by a revolving eccentric axis, and itself reciprocates vertically, or nearly so, on said axis, substantially as and for the purpose described.

43,117.—Material for the manufacture of Butt Hinges, etc.—Oliver S. Judd, New Britain, Conn.:

I claim the substitution of the composition known as laminated zinc for other metals in the manufacture of butts.

zinc for other metals in the manufacture of butts.

43,118.—Medical Preparation.—John B. Knoebel, Shoal Creek, Ill.:

I claim the use of an antidote for "dropsy" and allied diseases, of the preparation which I term "hydropin," made substantially in the manner herein shown and described.

Also the within described composition of the ingredients above specified, and mixed together in the manner and about in the proportion set forth.

[This invention is based on the discovery that an extract prepared from the juice and seeds of sprouting cucumbers, and also the seeds

of water melon, either alone or mixed with elaterium, tincture sciller of water incompletion above to instance with the activation and tincture colchiri, form a desirable and effective antidote against "dropsy," and other diseases of a similar nature or arising from a similar cause.)

43,119.—Washing Machine.—Joel Lee, Galesburg, Ill.: I claim the friction roller shaft, D, cross bars, E E, friction rollers, I rub-board frame, B, rub-board, C, washing rolls, F F, and guide grooves, H, the whole constructed and arranged substantially as and for the purposes set forth.

43,120.—Mode of treating Tanned Leather.—Benjamin H. Lightfoot, Philadelphia, Pa.:
I claim the currying or dressing of tanned leather by applying to the same crude petroleum, or any of the mineral oils, treated substantially in the manner described.

A3,121.—Car Spring.—William Marshall, New York City:

I claim the combination of the springs, CD, and levers, B. arranged substantially as shown, and either with or without the box, A, to operate in the manner as and for the purpose set forth.

[This invention consists in the employment or use of spiral springs

arranged and combined with levers in such a manner that a strong and durable spring will be obtained, and one which may be con structed at a very moderate cost. The object of the invention is to obtain a spring which will possess as much elasticity as the ordinary elliptic or semi-elliptic springs, and be equally as durable and still be capable of being cheaply constructed and readily repaired when necessary. The elliptic or semi-elliptic springs although far preferable to any hitherto constructed, being too expensive for general use and applied only to the more expensive style of cars.]

43,122.—Washing Machine.—John McLaughlin, Monongahela City, Pa.:

I claim the manner of constructing and arranging the bottom of the body, a, with relation to the rubbing follower, C, that the operator is enabled by it to turn or reverse the clothes and bring all parts of them in contact with the rubbingsurface of said rubbing follower, the whole being constructed, arranged, and operating in the manner herein described and set forth.

as torus. 43,123.—Cultivator.—William Mettler, Frankfort, Ill.: I claim the teeth, G.G. laterally movable bodily without angular change, in combination with fixed teeth, F.F., situated further behind and outward than the said movable teeth, arranged and operating substantially as and for the purpose herein specified. I also claim the combination of the guide posts, n.n., with the adjusting screws, P.P., as herein set forth.

I also claim the combination of the hinged or jointed controlling braces, R.R., with the guide posts, n.n. and clevating device, L.M.M., substantially as and for the purpose herein specified.

A3,124.—Pump.—John Munson, San Jose, Cal.:
I claim, first, The check or retaining valve, G, fitted in the frame, H, provided with a projection, I, and arranged in relation with the valve, F, of the piston, C, and the bolts, D, thereof or other projection attached, so as to cause both valves to be opened and remain open when the piston is at the bottom of the pump cylinder and thereby admit of the escape of the water, substantially as set (orth. Second, The hollow plunger, B, attached to the piston, C, to operate as an air-vessel or chamber, as specifical.

Third, The plate, J, with the socket or brake joint, K, attached, substantially as described.

43,125.—Faucet.—Ferdinand Meyrose, St. Louis, Mo.: I claim a faucet provided with a valve, C, attached to a horizontal stem, D, having a screw, e, on its outer part, on which a nut. E, is fitted and the latter placed and allowed to turn freely in a cylindri-

43,141.—Apparatus for purifying and refining Spirits.-

cal chamber, f, all being a ranged in connection with the two tubes, A B, substantially as described.

nsists in having a valve placed or attached to stem which is fitted horizontally in the case of the faucet or cock and is operated by a nut so as to open and close the valve, the latter against its seat in a direction corresponding with the direct tion of the pressure of the liquid; and all so arranged that a very simple and efficient faucet or cock is obtained, and one not liable to leak, and which may be opened and closed with the greatest facility.]

Letter Envelope.—Anna M. Murphy, New York

City: claim, as a new article of manufacture, an envelope letter shee nstructed with a center, c, side laps, b b', sealing lap, a, and two ws of perforations, d and e, all as herein described and for the pur ses specified.

[This invention is an improvement on that class of letter envelo on which Letters Patent have been granted to Wm. Murphy, June 2d, 1863, and the object of the same is to facilitate the operation of openingthe letter without tearing 18.]

43,127.—Furnace for heating and welding.—George Nimmo, Jersey City, N. J., and Robert S. Stanton, New York City:
We claim the combination of the heating compartment, A, with the heating and welding compartment, B, and the fire-place, C, constructed and arranged substantially as in the manner set forth and for the purposes specified.

43,128.—Medical Compound.—Frank H. Norton, New York City:
I claim, first, The remedy, "Anti-Diphtherion," compounded of sumach berries, alum, saltpeter, and honey, in the proportions and manner set fo th.
Second, I claim the use of acetic or other acid, in combination with the materials set forth, for the pu pose of preventing fermentation.

the materials set forth, for the pu pose of preventing fermentation.

43,129.—Roasting Sulphurets and other Ores.—August F. W. Partz, Wurtsboro, N. Y.:

I claim, first, An upright shaft or chamber through which heat and a r are passed, in combination with a series of inclines, applied in such shaft to check the descent of the ores, as set forth.

Second, I claim a shaft in which the heat and air ascend, as the ores descend, in combination with a receiving chamber, substantially as specified.

Third, I claim a vertical shaft or chamber in which the heat and air ascend as the ores descend in combination with a door or damper for admitting a supply of air for regulating the temperature, as set forth.

43,130.—Stovepipe Elbow.—John G. Perry, South Kingston, R. I.: I claim a cast-iron stovepipe knee constructed as herein described, as a new article of manufacture.

43,131.—Sausage-filler.—John G. Perry, South Kingston R. I.:

K. 1.: I claim the combination of the nozzle and cylinder with the pistor ead and rod, all being constructed and arranged substantially as erein described and for the purpose set forth.

43,132.—Baling Press.—John W. Roberts, New Monmonth, N. J.:
I claim the combination of the levers, E. E., provided with the segments, G. G. in connection with the levers, B. and with the shafts J. J., provided with bent ends, f, and connected by the arms, K. K., and link, L., in the action upon the box, B, and fastenings of its doors, all substantially as described.

[This invention relates to a new and improved press for compress ing substances for baling, such as hay, cotton, hops, etc. The object of the invention is to obtain a press for the purpose specified which will be very compact and occupy but little space, so that it may be operated in a building or compartment of moderate hight, and still compress substances into bales of the ordinary dimensions.]

43,133.—Coal-breaker.—H. C. Rogers, Scranton, Pa.. I claim, as a new article of manufacture, the coal-breaker tooth, herein-before described, consisting of a pyramidal or tapering body, A, of soft metal, to be secured in the roller, R, by casting, and a point of steel welded in a groove in the front of the wrought-iron body, A.

(This invention consists in a coal-breaker tooth composed of iron, with a steel point inserted in such a manner that as the softer metal wears away, the harder metal is left prominent, and thus always presents a sharp point.]

43,134.—Sash Fastening.—Herman Rugee, Milwaukie,

Wis.:
I claim the application of the lever, E, in connection with the slots, II, in the cover, B, and the slot, H, in bolt, E, constructed in combination, operating as described, for the purposes set forth,

3,135.—Herbal and Scrap Book.—A. M. Safford,
Springfield, Mass.:
I claim the improved herbarium, constructed and arranged subtantially as herein specified.

43,136.—Balanced Elevator.—C. B. Sawyer, Fitchburg.

Mass.: Ass.: I claim the combination and arrangement of the rope, a b c, wind lass, D, pulley, H, and wheel, M, as and for the purpose described.

Lass, D, pulley, H, and wheel, M, as and for the purpose described.

43,137.—Metal-planing Machine.—William Sellers, Philadelphia, Pa.:

1 claim, first, Prov ding a rigid support for the revolving cutter head as near as possible to the cutting tools, substantially as and for the purpose specified.

Second, Traversing the revolving cutter heads, E and F, at right angles to the main supporting bed, in combination with one or more tables, G and H, when either or both the heads, E and F, and tables, G and H, can be adjusted to or from each other, substantially as described and for the purpose specified.

Third, The two revolving cutter heads having a traversing motion at right angles to the main supporting bed, A, substantially as described, when one or bothlof said heads has an adjustment parallel to the main supporting bed, substantially as described and for the purpose specified.

Fourth, Two or more tables, G and H, in combination with one or

bed, when one or bother season in the discrete and to main supporting bed, substantially as described and to main supporting bed, substantially as described and to be specified.

Outtle, Two or more tables, G and H, in combination with one roe cutter heads, E F, when so arranged with reference to each at the capable of moving in two or more directions, substantially as described.

tally as described.

43,138.—Friction Clutches or Pulleys.—H. S. Shepardson, Shelburne Falls, Mass.:
Iclaim, first, The combination of the wedges, h. on the sliding collar, F, with the radial arms, n, connected with the expansive or friction ring, A, substantially as and for the purpose described.

Second, I also claim connecting the radial arms, n, to the friction segments by toggle levers, o, which straddle the cuts in said ring, as and for the pu pose described.

43,139.—Hand Corn-planter.—Solomon S. Smith, North Fairfield, Ohio:
I claim the plunger, D, brush, C, recesses D. F.

Fairfield, Ohio: claim the plunger, D, brush, C, recesses, B F and G, spring plate, ose, E, handles, K and N, spring, O, and stop, O', when these sev-loaring substantially as and for the pose set forth.

43,140.—Furnace for desulphurizing Ores.—Charles A. Stetefeldt, New York City:

I claim, first, The employment or use of an upright terrace furnace, substantially such as herein described, for the purpose of reducing gold, silver, quicksilver and other metals from the sulphuret ted ores.

Second The results agent.

ted ores.

Second, The peculiar construction, proportion, and disposition of the terraces, L, in the shaft, K, as based on the rules deduced from the formula 1 to 24, whereby a complete and rapid desulphurization of the ores is accomplished.

Third, The combination of a hot-air apparatus with an upright terrace furnace, for the purpose substantially as set forth.

Thomas Thompson, Baltimore, Md.:

I claim the apparatus described in the foregoing specificatis such an equivalent apparatus as will expose the alcohol, whisk other liquor to the action of the air, to refine and purify them, a scribed.

I claim the bone or wooden where

laim the bone or wooden rings or their equivalents, in combina-with the yarn or twine, for the purpose described.

43,142.—Valve for Steam Engines.—D. B. Travis, La Crosse, Wis.:

I claim the combination with two slide valves, A A, of two movable three-ported valve seats, F F, and a system of six ports in the permanent seat, the whole constructed, arranged, and operating substantially as and for the purpose herein set forth.

[This invention consists in a novel system of movable valve seats and stationary and movable ports, in combination with slide valves in as steam engine, whereby the engine is enabled to be reversed and stopped very quickly and easily.]

-Grate Bars.--Lorenzo B. Tupper, New York

City:
I claim connecting the ends of three, four, or five of the cross bars or pieces, b, to each other as at c, for the purposes and as specified.
43,144.—Clothes-hanger.—Alexander J. Walker, New

York City:

I claim a series of horizontally-turning hooks with arms above and elow a supporting bar or strip, substantially as specified.

And in combination therewith, I claim the eyes, c c, for the puroses and as specified.

43,145.—Bolt for Shutters.—Thomas Warner, German-

town, Pa.:

I claim the bolt, D. its spring, e, and the projection, f, straight on one edge and rounded on the other, in combination with the plates, 3 and C, and their staples or their equivalents, the whole being contracted and arranged substantially as and for the purpose herein set

43,146.—Sewing Machine.—Wm. Wickersham, Boston,

A3,140.—Sewing Machine.—Will. Wickersham, Doston, Mass.:

I claim, first, Automatically raising the cloth presser foot, b, in sewing machines above the surface of the cloth of various thicknesses, in such manner that said foot shall rise higher for thick than for thin cloth, suiting the elevation to each thickness, in the manner and for the purpose described.

Second, I claim the combination in sewing machinery, of mechanism, for automatically raising the cloth-presser foot, b, variably to suit different thickness of cloth, with the feed bar, n, having merely a forward and backward motion, in the same horizontal plane, in the manner and for the purpose described.

Third, I claim attaching the looper, z, to the feed lever, h, operating in the manner and for the purpose described.

Fourth, I claim the arrangement of a sewing machine, making a double chain stitch, in which there is a main shaft above the table operating the upper needle and the presser foot, and a rocker shaft below, operating the lower needle and the feed, in the manner and for the purpose described.

Fitth, I claim operating both the feed and the looper, z, by the screw flange, g, attached to the rocker shaft, as described.

43,147.—Lock-fastener.—Henry S. Wilcox, West Meriden, Conn.:

I claim the rod, H, constructed as described in combination with the shank, D, key-bow, G, or their equivalents.

43,148.—Manufacture of Vinegar.—Henry Wittich, Baltumore, Md.:

I claim the application of starch to ithe liquor used in the mantacture of vinegar as a substitute for alcoholic liquor, when used substantially in the manner and for the purposes herein described.

43,149.—Calisthenic Pulley and Spring Cord.—John Wood, New York City:

I claim the construction and arrangement of spring cords, substantially as described, for calisthenic purposes.

43,150.—Tackle for Fore-and-aft Sails.—Wm. Woodbury, Gloucester, Mass.: Ichm, first, Placing the springs, b, on a rod, E, parallel to the trayeder nod, C, substantially in the manner and for the purpose set

reading first, reading the springs, 0, on a rou, E, parameter of the raveler nod, C, substantially in the manner and for the purpose set forth.

Second, Forming the springs, b, in short sections with the washers, c, interposed, substantially in the manner and for the purpose set forth.

.51.—Bullet Ladle.—Moses Babcock, Charlestown, Mass., assignor to James F. & E. P. Munroe, Fitchburg, Mass.:

Durg, Mass.: am as a new article of manufacture the improved bullet ladle, su istantially as herein shown and described.

43,152.—Spring Clasp or Button.—Francis E. Drake (assignor to himself and George Arms), Chicopee,

claim a clasp or button fastening, constructed, arranged, and ating substantially in the manner described.

43,153.—Mode of lubricating the Bearings of Spinning Frames—Albert H. Gilman (assignor to Charles A. Shaw & himself), Biddeford, Maine: I claim a spindle gear when so constructed that the gear itself shall

I claim a spindle gear when so constructed that the gear itself shall form a cap for, and pass down over or around, the step without being in contact with it, substantially in the manner and for the purpose shown and described.

43,154.—Liquor Flask.—Robert Heneage (assignor to Reuben Dill), Buffalo, N. Y.:

I claim as a new and improved article of manufacture a liquor flask, constructed with two or more compartments and rotary nozzle, substantially as described.

substantially as described.

43,155.—Reservoir Stove.—Zebulon Hunt, Hudson, N. Y., assignor to himself and Wm. J. Miller, Greenport, N. Y.:
I claim, first, Employing the circular-inclined partition or hopper, s. g for the combined purpose of forming the botair chamber or fluc, A. A. of conducting the coals and a shes into the ash pan, and of preserving the brightness of the fire by shielding it from the cold air, substantially as and in the manner set forth.

Second, The shake bar, e, crank, a, and handle, b, when used in combination with the revolving grate, G, having projections on its lower edge, substantially in the manner and for the purpose set forth.

Th. 'hird, The combination of fire-pot, P, with grated sides and base, spended within the ash pit, as shown, with the fuel reservoir, B, sstantially as described.

substantially as described.

43,156.—Treating Oil and Fat to form Composition for Illuminating and other Purposes.—Sylvester Lewis, Rochester, N. Y., assignor to Wm. J. Williams, New York City:

I claim the treatment of oliene expressed from fats and oils with benzine, benzole, or naphtha, substantially in the proportions and on the principles set forth.

benzine, benzole, or naphtha, substantially in the proportions and on the principles set forth.

43,157.—Process of recovering the Acid used in refining Petroleum.—Robert G. Loftus, Chelsea, Mass., assignor to himself and Alonzo Farrar, Brookline, Mass.:

I caim the improved process as above described, of restoring the acid or separating it from its impurities or foreign matters after it may have been u. ed in the refining of a liquid hydro-carbon or oil.

43,158.—India-rubber Syringe.—F. M. Shepard (assignor to himself and W. A. Shepard), New York City:

I claim as a new article of manufacture an elastic india-rubber bulb syringe in which the trimmings, i.e., the valve cases and other non-elastic parts are made of vulcanite or hard rubber in contradistinction to metal of which they were heretofore made.

43,159.—Splitting Leather.—Caleb S. Stearns (assignor to himself and Thomas Corey), Marlboro', Mass.:

Iclaim the combination and arrangement of the grooved carrying roler, B, the roller, D (or its equivalent), and the series of stripping knives, or on lase claim the combination and arrangement of the grooved carryong.

 $^{0\ 0}$ C 0 L also claim the combination and arrangement of the grooved car-

rying roller, B, the roller, D, or its equivalent, the splitting knife, E, the bar or plate, F, or its equivalent, the series of stripping knives, o o, and the roller or drum, H.

I also claim the combination of the discharger C, with the jaws, a b, the eylinder, B, the roller, D, or its equivalent, or the same and the mechanism for stripping the leather or skin, in manner as specified.

60.—Bleaching and whitening Wool, etc.—Peter Stevenson (assignor to Bigelow Carpet Company), Clinton, Mass.: claim the method of bleaching or whitening wool, woolen, and sted yarns and cloth, by the combined action of oil of vitriol and ine blue, substantially as specified.

43.161.—Manufacture of Toy Chairs.—Doras A. Stiles,
Meriden, Conn., assignor to Merriam Manufacturing
Company, Durham, Conn.:
Iclaim as a new improved article of manufacture a toy chair, cut
in one piece of metal, substantially as and for the purpose described.

43,162.—Brick Machine.—Porter L. Sword & George S. Tiffany (assignors to Porter L. Sword), Adrian, Mich.:

Mich.:

We claim, first, Constructing the bed-plate, I, with the recess, w, and curvilinear opening in that part which forms the bottom of the cylinder, S, over the space traversed by the molds, in combination with the inclined plane, o, and wheel, T, when they are arranged to operate substantially as and for the purpose herein set forth.

Secon 4, Supporting and adjusting in proximity to the bed-plate the mold wheel, K, by means of the wheel, P P P, and rods, as a a, as set forth.

43,163.—Railway Truck adapted to different Gages of Tracks.—Charles D. Tisdale, East Boston, Mass., assignor to himself and Barna W. Tisdale, Boston, Mass.:

Mass.:

Idam the application of the wheels to the axle by means of sleeves or tubular shafts, as described, and combining with the latter and the axle a means or mechanism for fixing the sleeves at different distances apart on the axle in order to adapt the wheels to tracks of different gages, in manner as specified.

I also claim the combination of the clutch-box, D, the flanges, G H, and the semi-circular clutch, E, the same being made and applied together and to the axle, B, and the tubular shaft or wheel sleeve, C and so as to operate substantially as specified.

I also claim the combination of the stopper, F, and the bolt, N, the two clutch-boxes, D D, and their clutches, E E, the whole being constructed and applied to and so as to operate with the axle and the wheel sleeves or hollow shafts, substantially as hereinbefore explained.

wheel sleeves or hollow snatts, substantiany as neremovener plained.

And with the wheels applied to the axle by means of sleeve tubular shafts as described, and these latter and the axle provided a means or mechanism for fixing the sleeves at different tances apart on the axle, and for the purpose of adapting the who to tracks of different gages, I claim the application of a "feat connection" (viz., the rib, a, and groove, b), or its mechanical equilent, to one of the sleeves only of the axle, the other sleeve befree torevolve as well as to slide on the axle.

Those Wester South Notice

ee torevolve as well as to slide on the axle.

3,164.—Felting Machine.—Enoch Waite, South Natick,
Mass., assignor to Edmond Richmond, Boston,
Mass.:

1 claim the combination and arrangement of an anxiliary endless
group, 0, with the two main felting agrons, G. H. and their felting
attens, whether there be one, or more sets of platens, the whole
sing arranged substantially in manner and so as to operate as deribed.

43,165.—Inking Hand Stamp:—L. M. H. Fromont, Paris,

43,165.—Inking Hand Stamp:—L. M. H. Fromont, Paris, France, assignor to Moritz Pinner, New York City: I claim, first, The placing of the two concentric tubes, cylinders, or barrels, E and F, and the ascending and descending movement of these tubes, which, in drawing the die, D, give it a rotary movement, the result of which is to carry the face of the die alternately to the inking pad, C, and to the surface to be stamped, substantially as above described.

Second, The isolated position of the ink-pad, C, in the interior of the tubes, by which it is kept from intermediate contact with the hand, and consequently from the effect of its warmth, substantially as above described.

as above described.

43,166.—Gun Cotton,—Baron W. Lenk, Vienna, Austria.
assignor to Norman Rawson and Charles Richmond.
Detroit, Mich.:
I claim an explosive improved gun cotton, made substantially as herein described.

herein described.

43,167.—Steam Trap.—Hubert Joseph Vaessen, Liege, Belgium, assignorto Bernard Schaffer and Christian Budenberg, New York City:

I claim the emilionment or use of two valves, A. B, so arranged in relation to each other and to a steam of inder, that if said cylinder takes steam on one end by the action of the steam itself the valve communicating with said end of the cylinder is closed and the other opened and vice verse, and by these means the condensed water accumulating on the exhausting end of the cylinder is allowed to escape without obstruction.

[The object of this invention is to free a steam cylinder from the water condensing in the same. The invention consists in the emiliary of the cylinder is allowed to escape without one of the cylinder of the water condensing in the same. The invention consists in the emiliary of the cylinder is allowed to escape without one of the cylinder of the water condensing in the same. The invention consists in the emiliary of the cylinder of the cylinder is allowed to escape without one of the cylinder of the cylinder is allowed to escape without obstruction.

water condensing in the same. The invention consists in the employment or use of two valves so arranged in relation to each other and to a steam cylinder, that if said cylinder takes steam on one end by the action of the steam itself the valve communicating with said end of the cylinder will be closed by the action of the steam itself and the other opened and vice versa, and by these means the condensed water accumulating on the exhausting end of the cylinder is allowed to escape without obstruction.]

43,168.—Composition for lining Puddling Furnaces.—
John Williams, Montreal, Canada:
I claim the within-described composition of cinder cement mixed together of the ingredients above specified, substantially in the manner

ner and about in the proportion set forth.

43,169.— Composition for protecting Ship Bottoms.—W.

B. Davis, Brooklyn, N. Y.:

I claim, first, The combination of carbonate of copper and arsenic, with the rest dum of paim oil or tallow, after distillation, spirits of turpentine and animal oil, or their equivalents, the whole forming a composition for preventing ships etc. from fouling, as set forth. Second, The use of the residuum of palm oil or tallow, after distillation in combination with arsenic or with arsenic and copper compounds, in a protective composition, substantially as and for the purpose specified.

RE-ISSUES.

ACFISSUES.

G97.—Water Closet.—W. E. Parmenter and Joseph and James Grundy, West Cambridge, Mass... assignees of Thomas Grundy, deceased, late of Boston, Mass. Patented June 26, 1860:

We claim arranging a valve or plunger, or both, above the valve sat, and with reference to the inlet and outlet passages of a water-ontrolling device, substantially as specified, that is to say, so that ther or both the valve and plunger shall be relieved or protected om the super-imposed impingement thereupon of the current passage through such a device.

1,698.—Harvester.—J. F. Seiberling, Doylestown, Ohio.
Patented Oct. 15, 1861:
I claim discharging the completed gavel by dropping the rear end of the platform slimits requisity with arresting the accumulation of the grain thereon, substantially as and for the purposes set forth.
Second, The combination of the cut-off, L. with a dropping or tilting platform, for the purpose of arresting the fall of the accumulating grain, whilst discharging the completed gavel, substantially as described.

1,699.—Harvester.—J. F. Seiberling, Doylestown, Ohio. Patented Oct. 15, 1861:
I claim, first, The arrangement and combination of the treadle, F, rod, U, lever, V, rod, G, and lever, H, for elevating and depressing the platform, M, substantially as set forth.
Second, In combination with the parts, FUVG&H, Iclaim the lever, I, and rod, K, for operating the cut-off substantially as set forth for the purpose mentioned.

1.700.—Harvester.—J. F. Seiberling, Doylestown, Ohio.

Patented Oct. 15, 1861: claim, first, The slotted dropping platform, through which the ble penetrates and selzes the gavel whilst the platform is drawn y for the purpose of discharging the grain, substantially as speci-

Record, I claim the combination of the slotted dropper, M, the cut off, L, and the finger beam, substantially as described.

1,701.—Harvester.—J. F. Seiberling, Doylestown, Ohio. Patented Oct. 15, 1861:

I claim the arrangement of the hinged bars, Q and R, for supporting the heel of the cutter beam, and for elevating and depressing the same and the reel, by means of lever, T, or other devices, said hinged bars being used in connection with the shoe or bar, O, and its flexible attachment, substantially as set forth.

dexible attachment, substantially as set form.

1,702.—Harvester.—J. F. Seiberling, Doylestown, Ohio.

Patented Oct. 15, 1861:

I claim a finger beam provided with a caster wheel at its outer end and a horizontally-folding binge at its inner end, whereby said finger beam is rendered capable of folding automatically to the side of the main frame, for the purpose of transportation, substantially as set

forth.

1,703.—Hoop Skirt.—Cæsar Neumann, New York City.

Patented Nov. 1, 1859. Re-issued June 26, 1860:

Iclaim a hoop skirt having its hoopssupported by cords twisted or braided, either before or during the manufacture of the skirt, substantially as herein shown and described.

DESIGNS.

1,953 to 1,956.—Carpets.—Elemir J. Ney(assignor to the Lowell Manufacturing Company), Lowell, Mass. Fourpatents.

7.—Plates of Cook's Range.—C. J. Shepard, Brooklyn, N. Y.

1,958.—Pedestal for Railroad Cars.—John Stephenson, New York City.

1,959.—Lamp Box for Railroad Cars.—John Stephenson New York City.

1,960,—Railroad Car-step.—John Stephenson, New York City.

1,961.—Clog-hanger for Railroad Cars.—John Stephenson, New York City.

1,962.—Axle-box for Railroad Cars.—John Stephenson, New York City.

3.—Watch Chain—A. D. Warren (assignor to Stephen Richardson, 2d), North Attleboro', Mass.

EXTENSION.

Spring Mattress.—W. F. Ressique, Cincinnati, Ohio, deceased, Louisa Ressique, Brooklyn, N. Y., administratrix. Patented June 10, 1850:

I claim the construction of the jointed spring mattress, substantially as set forth in the specification.

42,686.—Pump.—Andrew J. Reynolds, Sturgls, Mich.
Patented May 10. 1864. [Incorrectly reported in
official list of that date]:
I claim, first, The arrangement of side pipe, C C', closed at the
ends and receiving water through the two-way inlet, E, whose ports,
F and F', are closed alternately by the one double-headed valve, G,
substantially as set forth.
Second, The double-headed and self-emptying inlet valve, G a a' b
c, the same being inserted and put together and adapted to operate
in the manner set forth.



- J. W. McC., of Pa .- From the indicator card you send us your eccentric appears to have shifted. The steam comes into soon on one side, and too late on the other. Setscrews are pool security, you should put in a key. Turn the eccentric back on the shaft toward the cylinder, and you will remedy the trouble.
- J. R. A., of R. I.-We have received your communica tion about the use of Babbitt metal on bearing surfaces, but do no think it of sufficient importance to publish. We shall be pleased to hear from you and all other mechanics on practical question
- R. P., of N. Y.-No knife or tool will cut well if it has what is called a rounding edge. You should ask some expert to show you how to grind and sharpen an edge tool.

Money Received.

At the Scientific American Office, on account of Patent Office business, from Wednesday, June 8, 1864, to Wednesday, June

J. D. B., of R. I., \$70; P. F. D., of La., \$25; R. S., of N. Y., \$44; J. J. D. McL., of N. Y., \$20; S. W., of Conn., \$45; H. M., of N. J., \$20; W. B., of Mass, \$20; E. T. J., of Vt., \$20; F. R., of N. J., \$16; G. C. of Mich, \$120; C. A. M., of Ill., \$20; J. D., of N. Y., \$20; D. &. H. of Mass., \$45; A. B., of N. J., \$41; J. H. C., of Pa., \$36; A. H. M., o N. Y., \$22; P. P., of N. H., \$20; W. V., of Mich., \$45; W. F., of Mass., \$25; A. & B. N., of N. Y., \$15; S. S. G., of Mass., \$16; E. P. B., of N. Y., \$16; C. W. & B., of Pa., \$35; L. W., of Ill., \$20; C. B., of Pa., \$16; McK. & W., of Wis., \$25; J. F. A., of La., \$30; J. T. S., of N. Y., \$16; M. F., of Conn., \$16; L. W., of Conn., \$40; J. G. B., of Pa., \$30; H. W., of Ill., \$195; W. S., of Ohio, \$16; R. T. M. W., of Vt., \$25; J. M. F., of Wis., \$50; A. R. A.. of England, \$30; E. C., of N. Y., \$41; S. W., of Pa., \$20; P. & H., of Pa., \$20; J. A., of Wis., \$40; A. P., of N. W., of Pa., \$20; P. & H., of Pa., \$20; J. A., of Wis., \$40; A. P., of N. Y., \$20; J. K. M., of N. Y., \$16; J. B., of Ohio, \$20; S. & T., of Mo., \$16; L. H. C., of Ill., \$20; H. G., of N. Y., \$16; R. R., of N. Y., \$20; J. V. C. C., of Conn., \$10; H. S., of N. Y., \$16; E. B. C., of R. I., \$20; A. T. B., of N. Y., \$20; C. M., of N. Y., \$25; A. J. A., of Ill., \$39; R. W. G., of Ill., \$47; F. & B., of Ill., \$48; W. P. M., of Wis., \$25; O. P. F., of N. Y., \$25; A. G. W., of Cal., \$15; W. R. F., of Nevada, \$10; R. S.L., of Ill., \$25; O. P. S., of Ill., \$16; N. A., of Conn., \$16; W. C., of Pa., \$25; A. L. S., of Conn., \$16; E. H. C., of Mich., \$25; C. R. H., of Wis., \$15; C. S., of N. Y., \$35; E. H., of N. Y., \$25; E. F., of N. Y., \$25; W. B. K., of N. H., \$45; C. S., of N. Y., \$16; M. McM., of N. Y., \$20; G. S. C., of N. Y., \$21; C. T. F., of N. Y., \$20; J. F., of N. J., \$20; P. D., of Pa., \$41; C. S., of N. Y., \$10; B. M., of N. Y., \$20; T. D., of N. Y., \$20; J. P. E., of N. Y., \$20; S. L., of Mo., \$20; E. N., N. J., \$16; N. M., of Pa., \$26; W. J. T., of Maine, \$25; H. & S., of Pa.

\$16; A. W., of Ill., \$16; J. T., of Wis., \$25; J. B. L., of Iowa, \$16; F. H., of N. Y., \$25; S. & P., of Ill., \$25; L. B., of La., \$27; D. F. H., of Mich., \$25; P. & S., of Conn., \$45; W. J. L., of Mass., \$16; H. M., of N. Y., \$25; G. C., of Ill., \$15; J. S., of Obio, \$56; H. K. J., of Conn., \$16; H. L. H., of Cal., \$26.

Persons having remitted money to this office will please to exam the above list to see that their initials appear in it and if they have not received an acknowledgment by mail, and their initials are not to be found in this list, they will please notify us immediately, stating the amount and how it was sent, whether by mail or express.

Specifications and drawings and models belonging to Specifications and drawings and models belonging to parties with the following initials have been forwarded to the Patent Office, from Wednesday, June 8, 1864, to Wednesday, June 15, 1864;—
J. D. B., of R. I.; P. F. D., of La.; W. W., of Conn.; E. F., of N. Y.; J. H. C., of Pa.; E. C., of N. Y.; J. G. B., of Pa.; J. O. McF., of Ill.; G. I. B., of Ind. (2 cases); J. F. A., of Wis.; L. W., of Ill.; W. J. T., of Maine; W. F., of Mass.; L. B., of La.; L. W., of Conn.; R. T. M. W., of Vt.; J. M. F., of Wis. (2 cases); R. S., of N. Y.; A. H. M., of N. Y.; A. B., of N. J.; P. D., of Pa.; P. & S., of Conn.; A. G. W., of Conl.; L. T. of Wis. P. S. L. of Ill.; O. P. F. of N. Y. N. M. of of Cal; J. T., of Wis.; R. S. L., of Ill.; O. P. F., of N. Y.; N. M., of Pa.; W. P. M., of Wis.; McK. & W., of Wis.; E. H. C., of Mich.; C. S., of N. Y.; E. H., of N. Y.; A. R. A., of England; G. T., of Germany; B. S., of Prussia; A. I. A., of Ill.; W. C., of Pa.; D. F. H., of Mich.; S. & P., of Ill.; P. H., of N. Y.; C. M., of N. Y.; F. & B., of Ill.; W. R. F., of Nevada; H. M., of N. Y.

Binding the "Scientific American."

It is important that all works of reference should be well bound. The SCIENTIFIC AMERICAN being the only publication in the country which records the doings of the United States Patent Office, it is pre served by a large class of its patrons, lawyers and others, for reference. Some complaints have been made that our past mode of binding in cloth is not serviceable, and a wish has been expressed that we would adopt the style of pinding used on the old series, i. e. heavy ooard sides covered with marble paper, and mo

Believing that the latter style of binding will better please a large portion of our readers, we commenced on the expiration of Volume VII., to bind the sheets sent to us for the purpose in heavy board sides, covered with marble paper and leather backs and corners.

The price of binding in the above style is 75 cents. We shall be un creafter to furnish covers to the trade, but will be happy to receive orders for binding at the publication office, No. 37 Park Row, New York.

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VOLUMES I., III., IV., VII., VIII. AND IX., (NEW SERIES) complete (bound) may be had at this office and from periodial dealers. Price, bound, \$2 25 per volume, by mail, \$3—which includes postage. Every mechanic, inventor or artisan in the United States should have a complete set of this publication for reference. Subscribers should not fail to preserve their numbers for binding VOLS. II., V. and VI. are out of print and cannot be supplied. We are unable to supply any of the first six numbers of the current volume. Therefore all new subscriptions will begin hereafter with the time the money is received



BATENTS

MUNN & COMPANY,

In connection with the publication of the SCIENTIFIC AMERICAN, have acted as Solicitors and Attorneys for procuring "Letters Patent" for

to inventions in the United States and in all foreign countries during the past seventeen years. Statistics show that nearly one-third of all the applications made for patents in the United States are solicited through this office; while nearly THREE-FOURTHS of all the patents taken in foreign countries are procured through the same source. It is almost needless to add that, after seventeen years' experience in preparing specifications and drawings for the United States Patent Office, the proprietors of the SCIENTIFIC AMERICAN are perfectly conthe transaction of all business before the Patent Office; but they take pleasure in presenting the annexed testimonials from the three ast ex-Commissioners of 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.

YOUR YOUR STATEMENT OF THE OFFICE CAME THOUGH AS MASON.

Judge Mason was succeeded by that eminent patriot and statesman, Hon. Joseph Holt, whose administration of the Patent Office was so distinguished that, upon the death of Gov. Brown, he was appointed to the office of Postmaster-General of the United States. Soon after entering upon his new duties, in March, 1859, he addressed to us the following very gratifying letter:

MESSERS. 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.

nal engagements.

Very respectfully, your obedient servant,

J. Holt.

Hon. Wm. D. Bishop, late Member of Congress from Connecticut, succeeded Mr. Holt as Commissioner of Patents. Upon resigning the office he wrote to us as follows:

Messas, Munn & Co. —It gives me much pleasure to say that, during the time of my holding the office of Commissioner of Patents, a very large proportion of the business of inventors before the Patent Office was transacted through your agency; and that I nave ever found you faithful and devoted to the interests of your clients, as well as eminently qualified to perform the duties of Patent Autorneys with skill and accuracy.

Very respectfully, your obedient servant, Wm. D. BISHOP.

THE EXAMINATION OF INVENTIONS

Persons having conceived an idea which they think may be patent able, are advised to make a sketch or model of their invention, and submit it to us, with a full description, for advice. The points of

novelty are carefully examined, and a written reply, corresponding with the facts, is promptly sent, free of charge. Address MUNN & CO., No. 37 Park Row, New York,

As an evidence of the confidence reposed in their Agency by inventors throughout the country, Messrs. MUNN & CO. would state that they have acted as agents for more than TWENTY THOUSAND inventors! Infact, the publishers of this paper have become identified with the whole brotherhood of inventors and patentees, at home and abroad. Thousands of inventors for whom they have taken out pat ents have addressed to them most flattering testimonials for the services rendered them; and the wealth which has inured to the individuals whose patents were secured through this office, and afterwards illustrated in the SCIENTIFIC AMERICAN, would amount to many millions of dollars! Messrs. MUNN & CO. would state that they wever had a more efficient corps of Draughtsmen and Specification Writers than those employed at present in their extensive offices, and that they are prepared to attend to patent business of all kinds in the quickest time and on the most liberal terms.

PRELIMINARY EXAMINATIONS AT THE PATENT OFFICE.

The service which Messrs. MUNN & CO. render gratuitously examining an invention does not extend to a search at the Office, to see if a like invention has been presented there; but is an opinion based upon what knowledge they may acquire of a similar invention from the records in their Home Office. But for a fee of \$5, accompanied with a model, or drawing and description, they have a special search made at the United States Patent Office, and a report setting forth the prospects of obtaining a patent, &c., made up and mailed to the inventor, with a pamphlet, giving instructions for further proceedings. These preliminary examinations are made through the Branch Office of Messrs. MUNN & CO., corner of F. and Seventh streets, Washington, by experienced and competent persons. Many thousands of such examinations have been made through this office, and it is a very wise course for every inventor to pursue. Address MUNN & CO., No. 37 Park Row, New York.

HOW TO MAKE AN APPLICATION FOR A PATENT. Every applicant for a patent must furnish a model of his invention if susceptible of one; or, if the invention is a chemical production, he nust furnish samples of the ingredients of which his composition consists, for the Patent Office. These should be securely packed, the inventor's name marked on them, and sent, with the Government fees, by express. The express charge should be pre-paid. Small models from a distance can often be sent cheaper by mail. The safest way to remit money is by a draft on New York, payable to the order of Messrs. MUNN & CO. Persons who live in remote parts of the order of messrs. MONN & CO. Persons who live in remote parts of the country canusually purchase drafts from their merchants on their New York correspondents; but, if not convenient to do so, there is but little risk in sending bank bills by mail, having the letter registered by the postmaster. Address MUNN & CO., No. 37 Park Row

Patents are nowgranted for SEVENTEEN years, and the Government fee required on filingan application for a patent is \$15. Other changes in the fees are also made as follows :-

the fees are also made as follows:—

On filing each Caveat.

On filing each application for a Patent, except for a design. \$15
On issuing each original Patent.

230
On application for Resissue.

On application for Resissue.

330
On application for extension of Patent.

350
On granting the Extension.

On filing a Disclaimer.

On filing application for Design (three and a half years).

\$10
On filing application for Design (seven years).

\$10
On filing application for Design (fourteen years).

\$21
On filing application for Design (fourteen years).

\$25
On filing application for Design (fourteen years).

\$35
On filing application for Design (fourteen years).

The Patent Laws, enacted by Congress on the 2d of March, 1861, are ow in full force, and prove to be of great benefit to all parties who are concerned in new inventions.

The law abolishes discrimination in fees required of foreigners, excepting natives of such countries as discriminate against citizens of the United States—thus allowing Austrian, French, Belgian, English, Russian, Spanish and all other foreigners, except the Canadians, to enjoy all the privileges of our patent system (except in cases of designs) on the above terms. Foreigners cannot secure their inventions by filing a caveat; to citizens only is this privilege accorded.

CAVEATS.

CAVEATS.

Persons desiring to file a caveat can have the papers prepared in the shortest time by sending a sketch and description of the invention. The Government fee for a caveat is \$10. A pamphlet of advice regarding applications for patents and caveats is furnished gratis, on application by mail. Address MUNN & CO., No. 37 Park Row New

REJECTED APPLICATIONS.

Messrs. MUNN & CO. are prepared to undertake the investigation and prosecution of rejected cases, on reasonable terms. The close proximity of their Washington Agency to the Patent Office affords them rare opportunities for the examination and comparison of ref-erences, models, drawings, documents, &c. Their success in the prosecution of rejected cases has oeen very great. The principal portion of their charge is generally left dependent upon the final result.

All persons having rejected cases which they desire to have prosecuted, are invited to correspond with MUNN & CO., on the subject,

giving a brief history of the case, inclosing the official letters, &c.

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Messrs. MUNN & CO., are very extensively engaged in the prepara-tion and securing of patents in the various European countries. For the transaction of this business they have offices at Nos. 66 Chancery lane, London; 29 Boulevard St. Martin, Paris; and 26 Rue des Eper, onniers, Brussels. They thing they can safely say that three-fourths of all the European Patents secured to American citizens are proured through their agency.

Inventors will do well to bear in mind that the English law does not

imit the issue of patents to inventors. Any one can take out a patent there

Circulars of information concerning the proper course to be pursued in obtaining patents in foreign countries through MUNN & CO'S Agency, the requirements of different Government Patent Offices, &c, may be had, gratis, upon application at the principal office, No. 37 Park Row, New York, or any of the branch offices.

It would require many columns to detail all the ways in which the Inventor or Patentee may be served at our offices. We cordially invite all who have anything to do with patent property or inventions to call at our extensive offices, No. 37 Park Row, New York, where any questions regarding the rights of Patentees, will be cheerfully

Communications and remittances by mail, and models by express (prepaid) should be addressed to MUNN & CO. No. 37 Park Row New