



ISSUED FROM THE U. S. PATENT OFFICE FOR THE WEEK ENDING MAY 28, 1867.

Table with 2 columns: Fee type and Amount. Includes 'PATENTS ARE GRANTED FOR SEVENTEEN YEARS', 'On filing each caveat', 'On filing each application for a Patent', etc.

In addition to which there are some small revenue-stamp taxes. Residents of Canada and Nova Scotia pay \$500 on application.

65,037.—MACHINE FOR HULLING RICE.—William G. Adams, Franklin, Mass. I claim the combination of a narrow-outletted hopper, an elastic yielding feed roll, with its corresponding concave, and an elastic yielding conveying surface, a rough surface cylinder, and a surface opposed to the yielding conveying surface, and extending between the feed roll and the rough surfaced roll nearly tangential thereto when said parts or their equivalents, are arranged so as to operate substantially as described.

65,038.—APPARATUS FOR SECURING PULVERIZED AND OTHER MATERIALS TO PAPER.—William Adamson, Philadelphia, Pa. I claim the two endless aprons, E and F, in combination with rollers so arranged that the said aprons will converge towards pressure rollers, D and D', as and for the purpose described.

65,039.—WAGON BODY.—J. H. Aldrich, Nashua, N. H. I claim the arrangement and combination of said sill, A, with cap, B, for the purpose herein described.

65,040.—TANK FOR STORAGE OF PETROLEUM.—Peter Andrew, Cincinnati, Ohio. First, I claim the oil tank, so constructed that the oil will rest on the surface of the water and be surrounded by water on its sides, as set forth, when said tank is arranged and combined for discharging into the lower reservoir in case of a fire, substantially as set forth.

65,041.—MATCH SAFE.—Charles A. Babcock (assignor to himself, D. M. Golden, and D. M. Kenyon), Hartford, N. Y. I claim the match-delivering drawer, D, in combination with the spring igniter, h, and finger, l, for elevating the lighter end of the match, substantially as set forth.

65,042.—STEAM GENERATOR.—G. H. Babcock and S. Welcox, Jr., of Providence, R. I. First, we claim a steam generator made up of sections of pipes, each of the several sections being composed of a series of inclined pipes, B, and a series of horizontal pipes, C, united at the ends by distinct side pipes appropriate to each section, the several sections, when arranged side by side and connected, forming an intermediate combustion chamber, A, and operating to cause a constant circulation of the water through the pipes in one direction, substantially as described.

65,043.—TEMPERING UMBRELLA RIBS.—Thomas W. Ball, Morrisania, N. Y. I claim, first, A tubular opening into which the ribs are introduced, in combination with gas jets, or other source of heat, so applied as to act upon all sides of such tubes or tubular openings, and temper the umbrella ribs with uniformity, as specified.

65,044.—METHOD OF TREATING AFFECTIONS OF THE SKIN.—Augustus Barnes, Southington, Ct. I claim the use or employment of a glass lens for removing flesh marks and discolorations, substantially in the manner described.

65,045.—METHOD OF TEMPERING SPRINGS.—Wallace Barnes, Bristol, Ct. I claim the employment of one or more coils, as shown and described, in the process of tempering springs.

65,046.—BRACE FOR BORING BITS.—Harry S. Bartholomew (assignor to himself and G. W. Bartholomew), Bristol, Ct. I claim the protuberance, a, upon the socket, A, with a corresponding depression, a', in the jaws, substantially as and for the purpose described.

65,047.—STEAM TRAP.—Henry W. Bartol, Philadelphia, Pa. I claim, first, The arrangement of spring, A, in cylinder, A B A' B', so that when the steam enters the cylinder, the expansion of metallic spring, A, will close opening, E, as and for the purpose described and set forth.

65,048.—LATHING APPARATUS.—W. L. Beardsley, Binghamton, N. Y. I claim the construction and use of the apparatus herein described and set forth.

65,049.—WASHING POWDER.—Henry Benter, Pittsburgh, Pa. I claim a washing powder or compound composed of sal soda, or its chemical equivalent, cuttle-fish bone, and ultra marine, or other equivalent coloring matter, mixed in about the proportions above stated, and substantially in the manner and for the purposes hereinbefore set forth.

65,050.—PLOW.—R. W. Biggs, Jacksonville, Fla. I claim the combination and arrangement of the slotted stock, C, point or share, E, and semi-circular stationary adjusting plate, D, with each other and with a suitable plow beam, A, substantially in the manner and for the purpose herein set forth.

65,051.—MECHANICAL MOVEMENT.—P. Bloomsburg, Jr., and J. Molyneux, Bordentown, N. J., assignors to Bordentown Machine Co. Antedated May 16, 1867. We claim the single eccentric, B, on the driving shaft, the eccentric rod, C, lever, D, and rod, F, in combination with the double crank on the driving shaft, the whole being arranged and operating substantially as and for the purpose set forth.

65,052.—SEWING-MACHINE SHUTTLE.—Ezekiel Booth and Job A. Davis, Watertown, N. Y. We claim the longitudinal spring, s, with the socket, B, attached, for the purpose of securing the bobbin, constructed and operating substantially as set forth.

65,053.—GARDEN HOE.—James H. Brewer, Atlas, Mich. I claim turning up the ends of the blade, and forming upright cutters at right angles to E, in combination with attaching the shanks to the outer and upper portion of the turned-up end of the blade to clear weeds and earth.

65,054.—CANAL LOCK.—John Burt, Detroit, Mich. First, I claim discharging the water into and from the lock chamber of a canal in a diffused or divided state by means of a diaphragm or apertures formed in the bottom of the said chamber, substantially as shown and described.

regulating the flow of water, the said valves, at each end of the tubes, coupled or united together so as to be operated simultaneously, substantially as shown and set forth.

65,055.—FIRE-PROOF SAFE.—William H. Butler, New York City. First, I claim the tessellated work or interspersed masses of steel united with a softer metal, B, by being rolled or forged together and afterwards hardened by sudden cooling so as to form a conglomerate metal of unequal hardness, the masses being arranged substantially as and for the purpose herein specified.

65,056.—STEAM ENGINE.—Caleb Cadwell, Waukegan, Ill. First, The double-piston cylinder, L, without heads, and having the valve, 6, constructed and arranged with reference thereto, substantially as described.

65,057.—CHALK-LINE MARKER.—John W. Carter, New York City. I claim the use or employment of the spindle and cord when the same shall be constructed and combined, substantially as shown, for the purpose indicated.

65,058.—CURTAIN FIXTURE.—Marvin Converse, Jordan, N. Y. I claim the sliding frame, C, carrying the curtain roller and journals, moving freely upon the edge of the window frame on the guide rod, B, in combination with the notched wheel, F, springs, I and J, in combination with the bar, B, and rake, as and for the purpose described.

65,059.—HARVESTER RAKE.—F. E. Cook, Seville, Ohio. First, I claim the pivoted curved bar, B, sleeve, L, and rake, K, in combination with the rod, M, and cam, E, as and for the purpose set forth.

65,060.—BENCH HOOK OR DOG.—Charles T. Crane, Lowell, Mass. Antedated May 19, 1867. I claim a bench hook consisting of a frame, a socket, b, for the sliding spindle, d, with hook, e, attached, and spring, f, all as mechanically arranged for the purpose herein described, and the manner fully set forth.

65,061.—BED BOTTOM.—Charles Creley, Dayton, Ohio. I claim the construction of the supporting pieces, a and b, with slotted ends, substantially as and for the purpose specified.

65,062.—SHUTTLE FOR SEWING MACHINES.—Job A. Davis, Watertown, N. Y. I claim the lever pad, s, screw, w, and coil spring, c, when constructed and arranged, substantially as and for the purpose set forth.

65,063.—COMPOUND FOR REFINING CIDER, ALE, &c.—Wm. M. Davis (assignor to himself and Wm. L. Beckwith), Cleveland, Ohio. I claim the composition above described, compounded of the ingredients above mentioned, or their known equivalents, substantially as and for the purpose set forth.

65,064.—ROCK DRILL.—Daniel S. Early, Hummelstown, Pa. First, I claim the drill rod, constructed with the fixed collar, K, and shoulder, L, in combination with the tappets, G, and slotted crosshead, M, substantially as described for the purpose specified.

65,065.—APPARATUS FOR EVAPORATING LIQUID.—Lewis C. England, Philadelphia, Pa. First, I claim a stirrer composed of main shaft, J, L', teeth, D D, upright, U, S, combined with evaporator, P, by means of journals, O, capable of a rocking motion, constructed substantially as described.

65,066.—PIPE CUTTER.—Theodore S. Foster (assignor to himself and John P. Sabin), Fitchburgh, Mass. First, I claim the knife, b, constructed as described and attached to the claw, substantially in the manner and for the purpose above specified.

65,067.—CURTAIN FIXTURE.—Charles H. Fowler, West Roxbury, Mass. I claim the combination with a curtain roller of a sliding or spring box or clamp, under such an arrangement that the said box or clamp shall not only constitute the means by which the roller and curtain are held in position, but also support the journal of the said roller at all times and form the bearing in which it resolves as herein set forth.

65,068.—SHAFT TUG.—Kasson Frazer, Syracuse, N. Y. I claim as new article of manufacture a shaft tug composed of the parts, A B C, substantially as and for the purposes described.

65,069.—BRICK PRESS.—E. R. Gard, Chicago, Ill. First, I claim a follower, S, provided with one or more rollers, u, u, running under and in combination with flanges, f, f, projecting from the track nearly along its entire length, substantially as and for the purposes herein specified.

65,070.—MODE OF FORMING THE EDGE OF WATER-PROOF SOLES.—Joseph H. Greenleaf, New Haven, Conn. I claim the leather edge for soles constructed and formed substantially as herein set forth, as a new article of manufacture.

65,071.—APPARATUS FOR FORMING EDGE OF WATER-PROOF SOLES.—Joseph H. Greenleaf, New Haven, Conn. I claim the apparatus substantially as herein described for forming the edge of soles.

65,072.—CHAIR AND BEDSTEAD.—Joseph Greenleaf (assignor to himself and O. F. Case), New Haven, Conn. I claim the combined chair and bedstead herein described having the seat, H, and back, G, attached thereto, and so as to be folded, the seat, H, down toward the back, and the back, G, backward down on the frame, substantially as herein set forth.

65,073.—CORN PLANTER AND FERTILIZER COMBINED.—Benjamin F. Grimes, Dawsonville, Md. First, I claim the arrangement of the corn hoppers, C, C, fertilizer hoppers, D, D, discharge tubes, E, E, and inclined tubes, F, F, substantially as and for the purpose herein set forth.

65,074.—MACHINE FOR CUTTING HAIR, GRASS, ETC.—C. F. Harlow, Boston, Mass., and E. H. Perry, Roxbury, Mass. First, we claim so combining, arranging and operating the two sectoral plates, A, B, as to be enabled when desirable, to operate each by one hand, essentially as described.

65,075.—STEAM COCK.—Albert Hallowell (assignor to himself and Horace R. Barker), Lowell, Mass. I claim the combination as well as the arrangement of the spring, s, or the same and either or both the chambers, n, p, with the auxiliary conical valve, e, and seal, f, the cap, f, the hand wheel, l, and the key, k, employed for effecting by aid of the screw, c, the vertical movements of the main valve, A, with respect to its seat, B, as described.

65,076.—WASHING MACHINE.—William H. Hanson, Albion, N. Y. First, I claim the rotary brush, E, one or more rollers, I, and the screw, K, in combination with the corrugated board, M, operating in the manner and for the purpose shown and described.

65,077.—MACHINE FOR CUTTING HAIR, GRASS, ETC.—C. F. Harlow, Boston, Mass., and E. H. Perry, Roxbury, Mass. First, we claim so combining, arranging and operating the two sectoral plates, A, B, as to be enabled when desirable, to operate each by one hand, essentially as described.

Eleventh, The combination with the dropping slide of the fertilizer hopper, D, of the flap valve, e, and ball or weight, c, applied and operating in the manner and for the purpose specified.

65,074.—GRAIN CLEANER.—J. A. Hall, Greenfield, Ind. First, I claim the shaking shoe, C, hinged to the frame and agitated by contact with the circular series of cans or projections on the head of the rotating screw, substantially as described.

65,075.—STEAM COCK.—Albert Hallowell (assignor to himself and Horace R. Barker), Lowell, Mass. I claim the combination as well as the arrangement of the spring, s, or the same and either or both the chambers, n, p, with the auxiliary conical valve, e, and seal, f, the cap, f, the hand wheel, l, and the key, k, employed for effecting by aid of the screw, c, the vertical movements of the main valve, A, with respect to its seat, B, as described.

65,076.—WASHING MACHINE.—William H. Hanson, Albion, N. Y. First, I claim the rotary brush, E, one or more rollers, I, and the screw, K, in combination with the corrugated board, M, operating in the manner and for the purpose shown and described.

65,077.—MACHINE FOR CUTTING HAIR, GRASS, ETC.—C. F. Harlow, Boston, Mass., and E. H. Perry, Roxbury, Mass. First, we claim so combining, arranging and operating the two sectoral plates, A, B, as to be enabled when desirable, to operate each by one hand, essentially as described.

65,078.—INDICATING APPARATUS FOR OIL AND OTHER LIQUIDS.—Walter Hart, Philadelphia, Pa. What I claim is an apparatus substantially as described, which when applied to a still or other evaporating vessel, will show externally the quantity, specific gravity, temperature, pressure, color and rate of evaporation of the contents of the still, by means of passages and indicators, substantially as described.

65,079.—CAR COUPLING.—Andrew Hartman, Canton, Ohio. First, I claim the peculiarly shaped apron or balance, D, of the pin, E Z D, so arranged and constructed as to act both as a balance, and a part of the mouth of the coupling, substantially in the manner and for the purpose herein specified.

65,080.—MACHINE FOR JOINTING STAVES.—George R. Hay (assignor to himself and J. R. Seely), Edgerton, Ohio. First, I claim the link, e, rod, f, spring, c, pin, N', and clamps, O, O', in combination with the vibrating frame, substantially as and for the purpose set forth.

65,081.—WISE.—John S. Hoar (assignor to himself and C. Hastings and N. C. Couter), West Acton, Mass. I claim the combination of the vise with a table or other support by means of the plates, A and B, axial pin, e, bolts, c, and nuts, a', all constructed and arranged substantially as described.

65,082.—STEAM WATER ELEVATOR.—W. L. Horne, Batavia, Ill. I claim a water elevator consisting of the exterior cylinders, a, and interior valve cylinder, b, and valve c, operated in the one direction by steam and in the other direction by water combined and arranged as set forth.

65,083.—DOOR STOP.—G. W. Hunt (assignor to J. S. Gray and J. S. Watson), Winchendon, Mass. I claim a combined metallic and elastic door constructed and operating substantially in the manner herein described for the purposes set forth.

65,084.—COMPOUND FOR SILVER PLATING.—E. Hunter, M. D., Cleveland, Ohio. I claim the herein described compound for cleaning silver ware and cleaning and re-plating plated ware, or ware made of copper or any of its alloys, of any other metals or alloys.

65,085.—MOSQUITO BAR.—John S. Hunter, Hartford, Conn. I claim the arrangement of the bows, B, more or less in number and combined with an adjustable socket, C, so as to be attached to the bedstead and to operate substantially as set forth.

65,086.—BLIND FASTENING.—S. W. Huntington, Augusta, Me. I claim the combination with the catch bar as described of the socket formed in two parts with a chamber for receiving the head of the catch bar and for allowing slight vertical movements of the same, substantially as and for the purposes herein shown and set forth.

65,087.—GANG PLOW.—Joseph and James Ingham, San Jose, Cal. We claim, first, The movable pivoted bars, C C' with the segments, D D' wheels, E E' and pinions, F F', to raise and lower the plows, substantially as described.

65,088.—MELODEONS, ETC.—S. A. Jewett, Cleveland, Ohio. I claim the tappets or independent manuals, K, rods, J, levers, G, and rod, H, in combination with the keys, A, and reeds, C, in the manner and for the purpose set forth.

65,089.—TURNING LATHE.—William Johnson, Lambertville, N. J. I claim, first, The continuous cover, M, over the feed screw, G, said cover passing through an aperture in the slide rest and in other respects arranged as set forth.

65,090.—PUNCH FOR CAR TICKETS, ETC.—R. J. Kellett, San Francisco, Cal. I claim a punch with an attachment, E, or its equivalent for holding the clippings of clippings of tickets in the manner substantially as and for the purpose specified.

65,091.—ELASTIC BUTTON FOR CARRIAGES.—Theodore E. King, Painesville, Ohio. First, The adjusting screw C, in combination with the rubber collar D', arranged in relation to the curtains, in the manner and for the purpose substantially as set forth.

65,092.—COMPOUND FOR PREVENTING INCRUSTATION IN STEAM BOILERS.—H. Frederick Knoderer, Sr., and L. F. Knoderer, Columbus, Ohio. We claim the application of a compound or preparation of two parts of common alum and one part of common glue prepared and applied as above specified to prevent and remove the accumulations and incrustations of steam boilers and the pipes and tubes belonging thereto as hereinbefore specified and substantially set forth.

65,093.—RUDDER.—F. W. Kuhnert, Rochester, N. Y. I claim the combination with the main rudder, B, of the series of auxiliary rudders E E E, arranged in the keel one after another and capable of being connected with and disconnected from the main rudder, in action, as herein set forth.

65,094.—GANG PLOW.—L. B. Lathrop, San Jose, Cal. First, I claim the rotary cutters, a, attached to the wheels, C, and forming flanges thereon, for the purpose of acting as land slides for the plows, substantially as set forth.

65,095.—MACHINE FOR CUTTING HAIR, GRASS, ETC.—C. F. Harlow, Boston, Mass., and E. H. Perry, Roxbury, Mass. First, we claim so combining, arranging and operating the two sectoral plates, A, B, as to be enabled when desirable, to operate each by one hand, essentially as described.

65,096.—MACHINE FOR CUTTING HAIR, GRASS, ETC.—C. F. Harlow, Boston, Mass., and E. H. Perry, Roxbury, Mass. First, we claim so combining, arranging and operating the two sectoral plates, A, B, as to be enabled when desirable, to operate each by one hand, essentially as described.

65,097.—MACHINE FOR CUTTING HAIR, GRASS, ETC.—C. F. Harlow, Boston, Mass., and E. H. Perry, Roxbury, Mass. First, we claim so combining, arranging and operating the two sectoral plates, A, B, as to be enabled when desirable, to operate each by one hand, essentially as described.

65,095.—TOCACCO CUTTER.—Nehemiah W. Lee, North Providence, R. I.  
I claim the knife B, with its rack B, sliding vertically in the frame B, and operated against the resistance of springs R or their equivalents by the lever G, with its movable fulcrum and toothed sector F, substantially as described for the purpose set forth.

65,096.—TRACE FASTENING.—Burdette A. Lewis, New Britain, Conn., assignor to himself and Jeremy W. Bliss, Hartford, Conn. Antedated May 16, 1867.  
I claim the projection e, upon the button c in combination with the latch C, and protuberances h, substantially as and for the purpose described.

65,097.—VISE.—Joseph H. Lewis, Duxbury, Mass.  
First, I claim the arrangement and combination of the movable jaw e, and internal threaded rotating screw i, with the stationary support and jaw a, and fixed external threaded screw, g, substantially as described.  
Second, I also claim the arched slide d, in combination with the support a, of the stationary jaw substantially as and for the purposes set forth.

65,098.—BOLSTER FOR RAIL ROAD CAR.—John Marquis and John W. Kimmell, Crestline, Ohio.  
First, We claim the clamping pieces F F, constructed in the manner and for the purpose herein set forth.  
Second, The combination of the rods O O, with nuts g g g g, thereon and the clamping pieces F F, in the manner and for the purpose specified.  
Third, The arrangement and combination of the clamping pieces F F, and rods O O, as claimed in second claim with the pieces A B and C, and connecting pieces D D, the whole forming an adjustable bolster in the manner and for the purpose herein specified.

65,099.—CENTRIFUGAL PUMP.—Carlo Federici Martorana, Baltimore, Md.  
First, The pump consisting of the wheel W, constructed as described and arranged to operate as and for the purpose herein set forth.  
Second, I claim the arrangement of the pump wheel W, and tube or case T, with the valves d, in the bottom of a floating platform or vessel substantially as and for the purpose set forth.

65,100.—MACHINE FOR MAKING SCREWS.—Benjamin A. Mason, New York City.  
First, I claim the series of intermittently revolving jaws, in combination with the revolving shaft s, cutter 15, and cone t1, constructed, arranged and acting substantially as specified.  
Second, I claim the hanging saw u, actuated in the manner and by the means substantially as described in combination with the blank holders o' for the purposes set forth.  
Third, I claim the pointing tool secured upon the end of the revolving spindle v' in combination with the lever 23 cam 21, and blank holders o' as and for the purposes set forth.  
Fourth, I claim the arrangement and combination of all the mechanism herein described for shaving nicking and pointing screw blanks as set forth.

65,101.—BRIDLE.—J. Franklin Mason, Bentonport, Iowa.  
I claim the rounded strap, in combination with guards and rings, to be secured to the horse's under jaw in the manner and for the purpose herein described.

65,102.—COTTON BALE TIE.—Matthew F. Maury, New Orleans, La.  
I claim the plate A, when provided with the folding flanges a a, and shoulders b b1, as described for the purpose set forth.

65,103.—BREACH LOADING FIREARMS.—Reuben McChesney, Utica, N. Y.  
First, I claim sustaining the forward extension of the breech piece upon a vibrating fulcrum piece a, substantially as described.  
Second, The combination of the breech piece B, fulcrum piece a, and latch a', operating substantially in the manner set forth.  
Third, Constructing the fulcrum piece a, so as to receive through it the spring a', which depresses the breech piece when the latter is released from the latch d, substantially as described.  
Fourth, The arrangement of the cartridge shell extractor 11', so as to be operated upon with the full force of the spring a', through the agency of the intermediate slotted device n n' and the breech piece B, the said parts being thrown into action by the act of cocking the arm substantially as described.  
Fifth, Constructing the hammer G, with a flange g' for entering a recess g2 formed in the breech piece and assisting in holding the latter firmly in place, substantially as described.  
Sixth, Constructing the latch d, of the breech piece so as to receive the forward end of the main spring J, through it, said latch d, being pivoted upon the trigger pin a', substantially as described.  
Seventh, Applying the pin 1, to the breech holding latch and operating said pin by the projection g, on the inside face of the hammer G, substantially in the manner shown and described.

65,104.—HINGING LID OF TEA KETTLE.—William L. McDowell, Philadelphia, Pa.  
I claim a wide-mouthed tea kettle having a hinged lid attached consisting of the two segments D D, coupled together and applied so as to operate substantially as described and for the purposes specified.

65,105.—BAG HOLDER.—James Melcher, Minneapolis, Minn.  
First, I claim constructing the lower part of hopper 1, with an hinged slide, and connecting said slide to the opposite side of the hopper by means of a flexible material in order that it may accommodate itself to the mouth of the bag substantially as set forth.  
Second, In combination with the hinged slide and flexible material, I claim spring M, for the purpose of retaining the mouth of the bag open to its greatest extent, substantially as described.

65,106.—HARVESTER RAKE.—Lewis Miller, Akron, Ohio.  
I claim in combination with a revolving arm carrying a pivoted rake or fork upon its outer end, a slide and connecting rod, that is operated by a cam and guide, and attached to said rake or fork so that while the arm moves in a true circle the rake or fork may assume different positions upon it, substantially as and for the purpose described.

65,107.—SNAP HOOK.—Charles E. Mitchell, New Britain, Conn.  
I claim a rigid pressure attachment E, or its equivalent, acting against the heel of the latch, to firmly close it with the hook, substantially as and for the purpose described.

65,108.—MANUFACTURE OF ALCOHOLIC SPIRITS.—J. Neely and Simon Allen, Buckingham County, Va.  
First, We claim the manufacture of spirituous liquors and alcohol from the juice of maize or Indian corn, substantially as herein set forth.  
Secondly, We claim as a new article of manufacture spirituous liquors or alcohol made from the expressed juice of corn stalks.

65,109.—CAR WHEEL.—D. P. Nickerson, Cleveland, Ohio.  
First, I claim the shell A, elastic ring F, and disk I, provided with the shoulder of flange G, in combination with the elastic rings H.  
Second, The clutches L E, and disk in combination with the elastic rings and shell A, substantially as and for the purpose set forth.  
Third, The annular shoulders D M, rings H, plate M and shell A, arranged substantially as and for the purpose set forth.

65,110.—FURNACE FOR HEATING AND WELDING.—George Nimmo, Jersey City, N. J.  
I claim the welding and heating furnace formed with the heating chamber b, fire and welding chamber a, and openings c c e and f, in the manner and for the purposes set forth.

65,111.—PIPE WRENCH.—J. L. Ordner, Cleveland, Ohio.  
I claim hook F, and pivoted nut E, as arranged and operating within and in combination with the slotted shank B, as and for the purpose set forth.

65,112.—SECTIONAL TAKE UP FOR CORSET LOOMS.—Solomon Ottenheimer, New York City.  
I claim the springs o, applied between the stationary shaft e, and the toothed ratchet, in combination with the wheels r, of the sectional take up roller of a loom for weaving corsets and other irregular fabrics substantially as set forth.

65,113.—HORSE RAKE AND HAY SPREADER.—George N. Palmer, Green, N. Y.  
First, I claim the arrangement and combination of the balanced frame B, B, short levers F F, and the rake head E, in the manner herein described for the purposes set forth.  
Second, I claim regulating and adjusting the tilting motion of the frame B, by the screw hooks K, and springs in m, as described.  
Third, I claim the combination of the pawls e e, ratchets b b, and thumb screws c c, constructed and arranged substantially as and for the purposes specified.

65,114.—VISE.—B. F. Perkins, North Adams, Mass.  
I claim the spring B, or its equivalent in combination with the screw D, and lever C, as herein described, and for the purpose specified.

65,115.—COUNTER AND DESK SEAT.—W. R. Pomeroy, Millersburg, Ohio.  
I claim the bracket B, seat C, lugs D, and springs I, as arranged in combination with the counter A, for the purpose and in the manner as set forth.

65,116.—BALANCE WHEEL OF WATCHES.—George Ramsay, Clyde, Ohio.  
First, I claim a watch balance wheel constructed with spring arms as and for the purpose set forth.  
Second, The balance wheel with spring arms in combination with the guards, substantially as and for the purpose set forth.

65,117.—SHANK LASTER.—L. Rastetter and A. Simcox, Fort Wayne, Ind.—Antedated May 16, 1867.  
We claim the shank A, handle B, stationary jaw C, movable jaw E, spring J, adjustable fulcrum D, combined, and operated as described and constructed in the manner and for the purpose specified and set forth.

65,118.—FASTENING SEATS TO CARRIAGES.—Martin C. Remington, Auburn, N. Y.  
First, I claim the device for fastening seats to carriages and constructed substantially as described.  
Second, The eccentric C, and sliding hook E, substantially as described for the purpose specified.  
Third, The locking device consisting of the spring toothed lever D, toothed

ring F, of the hook E, in combination with the eccentric C, substantially as described.

65,119.—SHIFTING RAIL FOR CARRIAGE TOPS.—Uel Reynolds, New York City.  
I claim the wooden shifting rail to which the metal slat irons and prop blocks are attached as set forth.

65,120.—BOOTS AND SHOES.—E. P. Richardson, Lawrence, Mass. Antedated May 16, 1867.  
I claim the system or mode of fastening the soles of boots and shoes, by means of barbed or corrugated nails or pegs, either with or without heads and driven either from the outside or inside of the boot or shoe, substantially as herein set forth, and for the purpose specified.

65,121.—SAND PUMP.—E. A. L. Roberts, Titusville, Pa.  
First, I claim the combination substantially as and for the purposes herein set forth and described, of a tube piston and foot valve, the latter being opened for the purpose of discharging the contents of the pump by means of the stem k, or its equivalent whether attached to, or separate from the valves.  
Second, The perforations, as arranged in relation to said pump for the purposes herein set forth.

65,122.—PROCESS OF REDUCING AND REFINING METALLIC ORES AND OXIDES.—S. C. Salisbury, New York City.  
First, I claim the application and use in blast and other like furnaces for reducing metallic oxides, of a blast of hydrogen and oxygen gases, or their equivalent when heated to a temperature of from 700° to 800°, Fahrenheit, or thereabouts for the purposes set forth.  
Second, The use in such furnaces in combination with such blast of hydrogen and oxygen gases or their equivalent heated as described, of carbon gas, when free from or obtained from hydrocarbons free from sulphur, phosphorus, ammonia, etc., for the purposes set forth.  
Third, The use in such furnaces of such blast of hydrogen and oxygen gases or their equivalent, so heated as described, and of such carbon gas free from sulphur, phosphorus, ammonia, etc., in combination with the ordinary air blast, for the purposes set forth.  
Fourth, In combination with blast and other furnaces used for reducing ores, the use of a compound or divided tower constructed substantially as described, for supplying to such furnaces such blasts of different character, substantially as and for the purposes set forth.  
Fifth, The use in blast and other furnaces used for reducing ores of manganese, substantially as and for the purposes set forth.

65,123.—CUTLERY.—Henry Sanderson, Sheffield, Eng., assignor to Wm. Sanderson, New York City.  
I claim uniting the handle and blade in the manner substantially as herein described.

65,124.—PIPE VISES.—D. Saunders, Brooklyn, N. Y.  
I claim the improved pipe vise herein described turning on the axis, C, and having the side opening, H, to allow the introduction and removal of the work, the several parts being combined and arranged substantially as and for the purpose herein set forth.

65,125.—STRAW CUTTER.—W. D. Schooley, Richmond, Ind.  
First, I claim the arrangement of the balance wheel, E, and main shaft, C, relative to the main frame, and knife sash, E, substantially as described and for the purposes set forth.  
Second, The use of the lever, K, when provided with the adjustable head, l, and operated by the cam, D, and to operate in combination with the rods, m, m, and levers, j, j, for the purposes specified.  
Third, The adjustable bearings, O, as described and set forth.  
Fourth, The keys, u, u, for adjusting the knife frame, as shown and described.  
Fifth, The guard, w, when made detachable, substantially as described and set forth.

65,126.—OIL CUP.—H. K. Sears and S. L. Holt, Hartford, Ct.  
We claim the combination of the passage, a, valve, d, guide, i, and rod, e, all arranged to operate substantially as and for the purpose described.

65,127.—REGISTER POINTS FOR PRINTING APPARATUS.—John F. Shearman, Brooklyn, N. Y., assignor to E. S. Dodge & Co., New York City.  
First, I claim the case, K, inclosing the point, I, and open on one side to allow the operation of the edge of the blade, G, or its equivalent, so as to operate the point therein in any position in the slot, substantially in the manner and for the purposes herein set forth.  
Second, I claim in combination with the above, the clamp, L, and adjusting means, N, or its equivalent, adapted to be conveniently operated from above the feed board, so as to set the point in the desired position in the slot, c, substantially as herein specified.  
Third, I claim the rotating plate, C, by operating from the upper side, all substantially in the manner and for the purposes herein set forth.

65,128.—PLANING MACHINE FOR WOOD.—P. T. Smith, Salem, Ohio.  
First, I claim the adaptable shaft, G, dowel points or clutch, c, socket joint, a, in combination with the feed rollers, E F, and springs, K, as and for the purpose substantially as set forth.  
Second, The vertical revolving cutters, Q, spring guides, d, and f, as arranged in combination with the saw, g, for the purpose and in the manner described.

65,129.—KETTLE.—Alfred Sower, New York City.  
I claim the chamber, E, in combination with the tubes, C, and pipes, F G, substantially as herein shown and described for the purpose specified.

65,130.—SHEEP SHEARER.—I. H. Spellman, Baconsburg, Ohio.  
I claim the combination of a shearer for the purpose and in the manner as substantially described, as a new article of manufacture.

65,131.—CARD ON LABEL HOLDER.—Edward F. Stephens, Towanda, Pa.  
I claim the form of the plate as cut of one piece of metal, the points marked C D E and F, which secure the holder to the saw, or so forth, without the use of nails or other means of fastening, and the flanges, G H and I, so turned as to hold the card or label and permit the same to be changed without attaching the holder.

65,132.—MACHINE FOR MAKING FERRULES.—Jeremiah Stever and John A. Way, Bristol, Conn.  
First, We claim the reciprocating bending dies, J J, slides, L L, and mandrel, R, combined and arranged for joint action, substantially in the manner described.  
Second, We claim in combination with the above the presser, E', substantially as and for the purpose described.

65,133.—GRINDING MILL.—Isaac Straub, Kenton County, Ky.  
I claim the bolt, b, when used in combination with tram bolts, a a a, for the purposes substantially as described.

65,134.—MANGLE.—R. A. Stratton, Philadelphia, Pa.  
First, I claim the combination of the rollers, E E', secured to the adjustable spring standards, D D', and the roller, F, secured to the spring standard, B, the whole being constructed and arranged as and for the purpose set forth.  
Second, The shield, m, arranged in respect to the rollers as and for the purpose described.

65,135.—PNEUMATIC SPRING.—D. B. Strope, Fort Wayne, Ind.  
First, I claim the construction and arrangement of the hollow piston in its relation to the oil contained in the reservoir or outer cylinder, in the manner and for the purpose herein described.  
Second, I claim the combination of the packing, D, elastic packing, J, metallic packing ring, E, and elastic flange or packing, F, with the gland, C, and piston, B.  
Third, I claim the combination of the studs, K, cylinder, A, and piston, B, substantially as shown and described.  
When arranged substantially as shown and described.

65,136.—OIL STILL.—Dexter Symonds, Lowell, Mass., assignor to himself, Benj. Woodward, and M. S. Marshal.  
I claim in stills for deodorizing and purifying oils, where the substance or material used and the process of deodorizing and purifying are herein described.  
I claim the employment of one or more screens in the manner and for the purpose substantially as set forth.  
And I also claim the employment of a screen or screens in any still where the substance or material under operation is liable to foam or rise, as set forth.

65,137.—MODE OF PURIFYING AND DEODORIZING OIL.—Dexter Symonds, Lowell, Mass., assignor to himself, Benj. Woodward, and M. S. Marshal.  
I claim in deodorizing and purifying hydrocarbon or other oils, the use of the substances or materials, herein specified and in the manner set forth.

65,138.—MACHINE FOR CUTTING SHEET OR BAR METAL.—Timothy F. Taft, Shrewsbury, Mass., assignor to Augustus Rice, Worcester, Mass.  
I claim the application to the lock shears above described of the two arms, J J, with bolt, K, and nut, L, or their equivalents, substantially as described.

65,139.—COMPOSITION FOR CLEANING METALS, WOOD, AND OTHER ARTICLES.—C. S. Toms, Utica, N. Y.  
I claim the composition of matter substantially as herein described, with and without the fillers earth.

65,140.—GATE FOR WATER WHEELS.—Garret Vliet, Milwaukee, Wis., assignor to Wm. Vliet, Green Lake Co., Wis.  
I claim solid metal gate, C, with water ports through its metallic water guides, D, projecting through the ports in gate, C, and curved at their inner ends to conform to the shape of the wheel, for the purpose of giving the water the proper direction, metal rings, E and F, bolts, G, and pinion, H, all arranged and combined substantially as and for the purpose described.

65,141.—TUCK MARKER OR CREASER FOR SEWING MACHINES.—Anna W. Eisenborn, New York City.  
First, I claim the combination of a creasing or marking wheel or roller, A10, sliding in unison with a sliding blade, A12, when applied to a sewing machine, in such a manner that the creasing or marking can be done during the process of sewing, substantially as described.  
Second, I claim also for giving the downward pressure of the creasing wheel against an edge or grooved instrument attached to the sliding blade, A12, the employment of a spring or set screw or a lever, substantially in the manner as set forth.

65,142.—COMBINED MATCH BOX AND TAPER HOLDER.—John A. Whipple, Cambridge, Mass.  
I claim the combination of the casing, A, the match holder, B, and hinged socket, C, substantially as and for the purpose specified.

65,143.—PUNCHING PRESS.—M. G. Wilder, West Meriden, Ct.  
First, I claim the combination of the eccentric G, stock, A, shaft, B, lever, E, arranged and operating substantially as described.  
Second, In a jointed horsehoe as described, and having a continuous clip, I claim the toe clip, a, and heel clips, e e, provided with the projecting arms, e' e', in combination with the elastic spring connection, L, substantially as described.

65,144.—HORSESHOE.—Albert S. Wilkinson, Pawtucket, R. I.  
First, I claim an elastic or spring connection, L, for connecting the heels of expanding shoes, substantially in the manner and for the purpose set forth.  
Second, In a jointed horsehoe as described, and having a continuous clip, I claim the toe clip, a, and heel clips, e e, provided with the projecting arms, e' e', in combination with the elastic spring connection, L, substantially as described.

65,145.—HORSESHOE.—Albert S. Wilkinson, Pawtucket, R. I.  
First, I claim in double shoes an expansion point which consists in slitting the upper and lower plates laterally so as to break joints, so that the toe clip acts as a spring joint to allow the heels of the shoe to expand laterally, substantially in the manner and for the purpose set forth.  
Second, I claim the double shoe, A, having an expansion joint as described, in combination with the toe clip, B, provided with a loop, c, and retaining bands, f f, substantially as described.  
Third, I claim the double shoe, A, having an expansion joint as described in combination with the toe clip, B, provided with a loop, c, retaining bands, f f, and heel rests, j j, the whole being constructed and operating substantially in the manner and for the purpose set forth.

65,146.—SASH TIGHTENER.—J. D. Winslow, Wilmington, Del.  
I claim attaching to window sashes the wedge-shaped piece, a, together with the pin or stop, b, as shown in the drawings and herein described, as a sash tightener to exclude wind and storms and prevent the sashes rattling.

65,147.—APPARATUS FOR DISTILLING TURPENTINE.—J. E. Winants and J. F. Griffin, New York City.  
We claim melting the lower portion of the mass of crude material in the bottom of the supply tank or hopper, and there partially straining it, substantially in the manner described and for the purposes set forth.  
We also claim the employment within a closed chamber, D, of a steam-heated strainer, F, constructed and operating substantially as described for the purpose set forth.  
We also claim the employment in combination with the chamber, D, and steam-heated strainer, F, of one or more auxiliary sieves or strainers, substantially as described.  
We also claim the employment, in combination with a strainer confined within a chamber of a cleaning device or scraper arranged to be operated from the outside of the chamber, substantially as described.  
We also claim making the strainer chamber, D, with windows, as and for the purposes specified.

We also claim the employment within a closed vessel, K, of one or more steam-heated disks or evaporators, when formed with a scroll-shaped or helical groove in the passage of the liquid, substantially as described for the purpose set forth.

We also claim forming the still with windows substantially as described for the purposes set forth.

We also claim supplying the superheated steam directly to the evaporators, carrying it thence to the steam strainer, and lastly to the melting worm, so as to heat these several devices to different temperatures, as hereinbefore described for the purposes set forth.

We also claim the combination or combined arrangement of the supply hopper, melting coil, strainer, and still with the heating medium, when operating together in substantially the manner herein before described for the purposes set forth.

65,148.—CLOTHES WRINGER.—Geo. L. Witsil (assignor to himself and Wm. Darmon and Geo. W. Griffin), Philadelphia, Pa.  
First, I claim the combination of the roller, A, spur wheel, G, and frame, F, including the jaws, F2 F3, and the roller, A1, adjustable pinion, G1, and frame, D, including the jaws, D3 D4, said parts being respectively constructed and the whole arranged to operate substantially as and for the purpose set forth.  
Second, The arrangement of the rollers at A and A1, when both are actuated positively, frames, D and F, including the jaws, F2 F3 and D3 D4, block, D1, stem, D2, and spiral springs, E, substantially as described.  
Third, In combination with the rollers, A and A1, the spur wheel, G, and slotted pinion, G1, cross piece, H, rigidly attached to the shaft of the upper roller and washer, I, substantially as and for the purpose set forth.

65,149.—GRAIN CONVEYING MACHINE.—S. W. Wood, Cornwall, N. Y.  
I claim a reservoir, B, and weighing apparatus or scales, H, in combination with the receiving and conveying pipes or passages, C, air pump, A, and the governing valves constructed and arranged to operate substantially as and for the purposes herein specified.  
I also claim the perforated partition or screen, L, in combination with the reservoir, B, receiving and conveying pipes, C, air pump, A, and valves, substantially as and for the purpose herein set forth.  
I also claim the devices or their equivalents, for the introduction of air into the receiving and conveying pipes, C, D, in addition to that introduced with the grain, substantially as and for the purpose specified.  
I also claim the arrangement of the devices, or the equivalent thereof, for introducing grain into a conveying pipe of passage, substantially as shown in figs. 3 and 4, and for the purpose herein specified.

65,150.—PROP FOR CARRIAGE TOPS.—Charles R. Abbott, Elmira, N. Y.  
1st, I claim the shank, B B', when made in two parts, and constructed and operating substantially as and for the purpose set forth.  
2d, The shank, B B', in combination with plate, A, ferrule, C, and screw, D, substantially as and for the purpose set forth.  
3d, Securing the shank, B B', and ferrule, C, together, by means of tongue and groove, o, and pins and holes, v, substantially as and for the purposes set forth.

65,151.—CAR COUPLING.—John D. Anderson, Cory, Pa.  
I claim the construction and arrangement of the link, B, fitting over the hooks, C, upon the upper side of the drawheads, said link catching over the pins, g, and prevented from slipping when in a vertical position by means of the circular projections, h, and coupled by means of the bent arm, a', striking the projection, a, upon the draw heads, as herein shown and described.

65,152.—CLOTHES-DRYER ATTACHMENT FOR STOVE PIPES.—Abram P. Anthony, Morrison, Ill.  
I claim the receiver, B, and loops, B1, in combination with the ring, C, by means of which it may be clamped upon a stove pipe substantially as and for the purpose set forth.

65,153.—LATH FOR PLASTERING.—Ellicott D. Averell, New York City.  
I claim a lath constructed with countersunk apertures, A', substantially as herein set forth for the purpose specified.

65,154.—ROTARY STEAM ENGINE.—Thomas Banta, Hoboken, N. J.  
I claim, 1st, The combination of the rings, R S T U, with the stuffing boxes, L1 N O shafts, G H I J, radial arms, D E F, and fan, e, V, substantially as herein shown and described and for the purposes set forth.  
2d, The combination of the flanged ring, W, and rods, X, with the shaft, J, flange, Y, and flanged end of the packing box, O, substantially as herein shown and described and for the purpose set forth.

65,155.—CLASP FOR SECURING SHIRT COLLARS.—John Barbier, Boston, Mass.  
I claim the within-described collar clasp, consisted of the two plates, a a', pivoted together at or near the center, in combination with a spring, e, one of the plates being provided with a projection, f, which passes into or through an opening in the extremity of the opposite one, and the clasp being attached to the shirt by means of a stud, g, all arranged and operating substantially as described.  
I also claim, in combination with the above, the socket, h, for receiving a pin projecting from the cravat or tie, substantially as set forth.

65,156.—APPARATUS FOR TEMPERING STEEL SPRINGS.—Ira N. Bevans (assignor to Eli Terry), Terryville, Conn.  
I claim the feed rollers, C, in combination with the vessel, A, and receiving drum, D, substantially as and for the purpose set forth.

65,157.—BASKET FOR FEEDING TARRED CORNCOBS TO FURNACES.—Ezra Benim, Dayton, Ohio.  
I claim the cob kindling basket, constructed substantially as herein described and for the purpose specified.

65,158.—CULTIVATOR.—Hiram Boys, Rushville, Ind.  
I claim, 1st, The frame, A, as constructed with adjustable tail piece, a, arms, b, with swivels for connecting the shovel beams and rollers, E, with chains for attaching the shovel bars, when combined, arranged and operating in the manner and for the purposes herein specified.  
2c, The beams, D D', shovel bars, f f', and shields, e e, connected by the adjustable bars, m, m, in the manner and for the purposes set forth.

65,159.—MOLASSES VESSEL.—William Briggs (assignor to himself and Thomas Holmes), Bristol, R. I.  
I claim, as a new article of manufacture, a pail or bucket, constructed and furnished as herein described, in combination with the gate, o, as herein set forth and for the purpose specified.

65,160.—FAUCET.—A. Brinckmann, New York City.  
I claim the tube, A, spigot, B, spring, D, within in case, C, in combination with the washers, F G, having stops, e e, as herein described for the purpose specified.

65,161.—BOLT CUTTER.—Walter Britton, Abingdon, Ill.  
I claim the guide, A, bars, B B', connected by a pivot bolt, b, at one end, and provided with cutters, c c, at the opposite end, and the levers, D D', provided with eccentrics, e e, all being combined and arranged substantially in the manner and for the purpose set forth.

65,162.—PIPE WRENCH.—James R. Brown, Boston, Mass., assignor to himself and W. S. Lowell, Cambridgeport, Mass.  
I claim, as my improvement the combination of the staple or clasp, the series of holes and the fulcrum pin and its spring, and their arrangement with the two crossed jaw levers, substantially in the manner as specified.

65,163.—CORSET CLASP.—Melissa E. Bulkley, Providence, R. I. I claim the use of the shield, s, or its equivalent, in combination with the clasp, constructed substantially as described for the purpose specified.

65,164.—HORSE RAKE.—Israel L. Bullock, Marcy, Ind. I claim the levers, J, having elastic pawls, L, attached in combination with the shaft, M, provided with the foot boards, J', and connected with the levers, J, substantially as described for the purpose specified.

65,165.—PENCIL SHARPENER.—Hubert Burgess, San Francisco, Cal. I claim the case or box, A, tray, B, and file, C, for sharpening pencils, substantially as shown and described.

65,166.—CONVERTING MOTION.—H. Burk, Mineral Point, Ohio. I claim the construction and arrangement of the pitman, D, the legs, a, b, of which straddle the wheel, C, and are provided with rolls, c, d, the former running in the groove, E, of the said wheel, and the other running on the metallic plate, f, of the belt, A, substantially as described and for the purpose specified.

assignor to himself and James R. Hitchcock, New York City.

1st, I claim the flat pans, E or H, arranged in a furnace, substantially as herein shown and described.

2d, I claim the furnace, A, substantially as described.

3d, The manner herein shown and described of transferring the acid from one pan to another, either by spouts, e, and an inclined chamber, B, or by means of syphons, K, K, substantially as herein shown and described.

4th, An apparatus for concentrating sulphuric acid, made and operating substantially as herein shown and described.

65,228.—CAR COUPLING.—R. H. Huston, Keokuk, Iowa. 1st, I claim a draw head with a chamber, B, for receiving a catch head, G, of the form described, said chamber having its side walls made flaring so as to cause the escape of the catch head should a car leave the track, substantially as described.

2d, A yielding guide plate, C, or its equivalent, in conjunction with a chamber, B, of the form, substantially as described.

3d, The combination of the draw head, which has a laterally flaring chamber, B, and the coupling bar, G, with semi-ellipsoidal catch heads on its ends, substantially as and for the purposes described.

65,229.—LANTERN.—John H. Irwin, Chicago, Ill. 1st, I claim extending the top of the inner globe, F, above the holder, d, in the lantern top, substantially in the manner and for the purposes specified.

2d, I claim supporting the said inner globe in such a manner that the oil cup can be removed from the lantern without disturbing said globe, substantially as specified.

3d, I claim so constructing a lantern that the interior globe can be removed from the lantern independently of the oil cup, substantially as described.

65,230.—LAMP.—John H. Irwin, Chicago, Ill. 1st, I claim, in combination with the lamp or its burner, the tube, D, or its equivalent, arranged and operating substantially as and for the purposes specified.

2nd, I claim in combination with said tube, B, a cooler, E, arranged so as to operate substantially as described.

65,231.—RUBBER BOOT FOR HORSES.—Joseph H. Jennings, Cambridgeport, Mass. I claim for the curative treatment of the hoofs and lower parts of the legs of horses, a rubber boot, constructed and arranged substantially as specified.

65,232.—WINDOW-SASH FASTENER.—Ezra Johnson, Joliet, Ill. I claim the toothed wheel, F, in the recess, b, of the casing, B, attached to the end of the shaft, E, cam, D, and toothed bar, G, when constructed, arranged, and operating as herein set forth for the purpose specified.

65,233.—MINING KNIFE.—Stephen C. Ketchum, Winchendon, Mass. 1st, I claim a double-bladed chopping knife, the blades being so pivoted to the shank as to give a drawing cut at each stroke, substantially as described.

2d, I claim so hinging two or more blades or knives together, and supporting them in such a position with springs, as to allow the cutting edges to conform to any suitable concave, or the curves of a chopping tray or bowl, as herein described.

3d, I claim the combination of the cutting blades, B B, fulcrum pins, d, d, shank, A, springs, C, C, with the bolt and thumb nut, D, operating in the manner herein described for the purpose set forth.

65,234.—CHURN.—S. P. Kingsley, Springfield, Wis. First, I claim the arrangement of the dasher having cylinder, E, beveled arms, l, l, i, and wires, s, s, or their equivalents, when constructed and used in the manner and for the purposes specified.

Second, The combination of the dasher as constructed with the churn box, A, when operating in the manner as set forth.

65,249.—PORTABLE HAY PRESS.—Jacob Mauck, Cheshire, Ohio. I claim a hay press having capstand, A, ropes, a and b, pulleys, c and d, clevis, I, pins, 2 and 3, carriage, C, stirrups, F, hooks, g, g, and braces, f, constructed, combined and operating substantially as herein specified.

65,250.—BUTTON.—George W. McGill, Washington, D. C. I claim the double or split metal shank for a button herein described in combination with a metal washer, constructed and applied substantially as described.

65,251.—SAWING MACHINE.—R. M. McGrath, Lafayette, Ind., assignor to himself and J. H. Gallagher. I claim the arrangement of the lever, y, pulley, z, and its cord, x, and the lever, i, for pivoting within the control of the operator the management of the sawing and feeding devices of the machine.

65,252.—PADDLE WHEEL.—Alexander McKenzie (assignor to himself and William C. Davis), Newport, Ky. I claim the arrangement of inclined blades or buckets, G, radial arms, B, oblique secondary arms, C, and brace rings, E, substantially as and for the purpose set forth.

65,253.—CALIPER.—G. L. McKnight, Worcester, Mass. First, I claim the combination with the slotted standard or screw, B, of the screw, D, for holding the adjusting nut, C, substantially as described.

Second, The combination with the upper part of the body or part, A, of the spring, E, substantially as and for the purposes set forth.

65,254.—STEAM SAFETY VALVE.—E. Meggenhofen, Frankfurt-on-the-Maine, Germany, administratrix of the estate of Edward Meggenhofer, deceased. I claim the arrangement of the bell crank lever, C, connecting rod, D, with reference to the spring balance, A, constructed substantially as and for the purpose set forth.

65,255.—MODE OF BRACING AND STAYING BOATS.—F. Mertens, Cumberland, Md. I claim the arrangement of the braces, E and F, and the cross ties, G, when constructed and combined with the tightening rods, H, as herein described and for the purpose set forth.

65,256.—COMPOUND FOR CURE OF HOG CHOLERA.—John H. Mesler, Symme's Corner, Ohio. I claim a compound for the prevention and cure of hog cholera, made of the ingredients set forth.

65,257.—CARRIAGE WHEEL.—William F. Morton, New Haven, Conn. I claim the double collar with its bars and flanges all cast in one piece, when the double collar is fitted to bind the hub and the flanges to support the spokes, substantially as herein described and set forth.

65,258.—ROOFING MATERIAL.—William Myler, Bridgeport, Ohio, assignor to George W. Johnson, Wheeling, W. Va. The combination of coal tar, pine tar, soap stone, ochre, or other oxide, and hydraulic cement, substantially as specified.

65,259.—BOTTLE STOPPER.—Joseph Nathan, Washington, D. C. First, I claim the screw, E, the lower part of its shank being made smooth, substantially as and for the purpose described.

Second, The blocks, b, on the wire, B, constructed and arranged substantially as described.

Third, The combination of the wire, B, blocks, c, yoke, C, screw, E, with the lower part of its shank, made smooth and stopper, g, substantially as and for the purpose described.

65,260.—TRUNK LOCK.—Joseph Nock, Washington, D. C. First, I claim the use of the crooked lever, E, or its equivalent, in combination with the tumblers, F, more or less in number, and the bolt, D, arranged substantially as described and shown.

Second, I claim the spindle, m, with the spring, n, when inserted and confined in the hasp, substantially as described and for the purposes set forth.

65,261.—TRUNK LOCK.—Joseph Nock, Washington, D. C. I claim a series of spring tumblers, E, and levers, d, so arranged and combined that the key shall act directly upon a portion of said tumblers to release them from the staple and at the same time shall act on the levers, d, causing them to act upon and release either of the tumblers, in the manner substantially as described.

65,262.—PORTABLE CAMP BED.—Prince Nicholas Ourousoff, St. Petersburg, Russia. I claim making the bed in sections filled with cork dust, or its equivalent and furnished with a pocket, d, and flap sheet or covering, e, all substantially as and for the purpose described.

65,263.—STUMP EXTRACTOR.—Isaac Pardee, Vineland, N. J., and R. C. Parvin, Forest Grove, N. J., assignors to R. C. Parvin. I claim the pawls, G, G, resting upon the ledge, a, of the socket, E, with their lower inner corners rounded as shown at b, so that their upper ends will fall by their own gravity against the ratchet bars, F, and engaged therewith, when constructed and arranged as herein shown and described.

65,272.—SLEEPING CAR.—J. Wyatt Reid, New York City. First, I claim the bed, D, suspended by chains, a, horizontal shaft, d, provided with ratchet and pawls, hooks, l, l, and s, s, when constructed and arranged within the sleeping car, substantially as herein set forth and for the purpose specified.

65,273.—PORTABLE SHELF.—Benjamin F. Rice, Boston, Mass. I claim the pivoted or jointed parts, i, d, and g, k, in combination with a portable shelf or receptacle, as a new article of manufacture.

65,274.—HANGER FOR SHAFTING.—John Richards, Cincinnati, Ohio. I claim a hanger for shafting constructed with the pivoted box support, Y and its means of adjustment, operating substantially in the manner and for the purpose herein set forth.

65,275.—PROCESS OF CHILLING OIL AND FAT.—J. E. Richardson, New York City. I claim the method of chilling oil substantially as herein set forth so that the ice is brought in direct contact with the lard in the manner specified.

65,276.—TUBE WELL.—John W. Ricker, Chelsea, Mass. I claim in combination with the induction well tube, a coiled spring arranged to operate substantially as and for the purpose set forth.

Also in combination with a well tube, the concave surfaces and triangular pointed drill, substantially as set forth.

65,277.—MODE OF SECURING THE TINES OF FORKS AND RAKES TO THEIR HANDLES.—J. P. W. Riley, Montrose, Pa. First, I claim making the tines of a hay fork in two parts, which are scarfed in a mortise in the handle or ferrule and secured in position by means of keys or wedges, substantially as herein shown and described.

Second, In combination with the double tines, C, C, I claim the double tines, D, which when inserted in the handle in the manner specified will convert the device into a manure fork, and can be removed whenever desired, substantially as herein shown and described.

65,278.—CORN PLANTER.—Benjamin F. Robertson, Cap. au Gris, Mo. I claim the employment of the partition, D, for the purpose of dividing and scattering the seed, substantially as described and set forth.

65,279.—FRUIT PICKER.—Oliver P. Rogers (assignor to himself and D. S. Barlett, Roxbury, Mass. I claim a device for picking fruit, constructed in the manner substantially as herein shown and described.

65,280.—STEAM GENERATOR.—Robert P. Rogers and James Black, Philadelphia, Pa. We claim, First, The beveled enlargement, a, of the boiler in combination with the curved or bowed tubes, B, for the circulation of the water, said tubes being attached at their upper ends to said enlargement, a, and at their lower ends directly to the boiler in the manner and for the purpose substantially as shown and described.

Second, The construction of the tubes, B, with a continuous curve from one connection to the other of boiler, substantially as herein set forth.

Third, The screw nuts in combination with the outside circulating tubes and the shell of the boiler one at each end, substantially as herein set forth.

65,281.—STEAM GENERATOR.—Robert E. Rogers and James Black, Philadelphia, Pa. We claim, First, The combination of the boiler, A, having the beveled enlargement, a, with the exterior curved tubes, B, for the circulation of the water and the flue tubes, C, in the manner and for the purposes substantially as described.

65,282.—WASHING MACHINE.—Robert Rooke, Empire City, Oregon. I claim the founders, A, in combination with a rotary tub, C, placed within a fixed tub, A, and all arranged to operate substantially in the manner as and for the purpose herein set forth.

65,283.—DEVICE FOR SUSPENDING HAY FORKS.—W. S. Salisbury, Adams Center, N. Y. I claim the two arms, A, pivoted together at one end and provided with pawls, E, at the other, in combination with the ratchet and spring pawl, substantially as and for the purpose described.

65,284.—FENCE.—J. W. Sanders, Ripon, Wis. I claim the portable sections, A, as constructed, when used in combination with the stays, g, g, blocks, b, and studs, in the manner and for the purposes specified.

65,285.—LANTERN.—Hugh Sangster (assignor to Horace Parmalee and William H. Bonnell), Buffalo, N. Y. I claim, First, The combination of the springs, I, I, catches, J, J, and rim, G, with the aperture, k, as and for the purposes herein substantially set forth and described.

Second, The springs, when constructed of the parts, P, P, as shown in fig. 5, and put together as described.

65,286.—HEATING ATTACHMENT FOR OIL LAMPS.—Egbert O. Schartan, Philadelphia, Pa. I claim the chamber, P, with the kettle, J, with the lower half of the jointed glass chimney, when arranged, used, and combined as herein described and for the purpose set forth.

65,296.—APPARATUS FOR CARBURETING AIR.—Levi Stevens, Fitchburg, Mass., assignor to Norman C. Munson, Shirley, Mass.

I claim the combination of an air-exhausting apparatus with the vaporizer, separate or distinct, in such manner that air may be drawn through the vaporizer and with the hydrocarbon vapors thereof, be drawn out of such vaporizer and into such exhaust apparatus, the whole being substantially as described.

I also claim the arrangement and connection of the air pumping apparatus and the vaporizer separate or distinct, in such manner that the hydrocarbon fluid may pass freely from one into the other of them, so as to stand at one level in both, and so that the wheel of the pumping apparatus while in rotation may revolve in such liquid as specified.

I also claim the combination of the fluid elevator and its operative mechanism, or their equivalents, with the tank, E, the vaporizer, and the air pumping apparatus.

I also claim the combination of the wire gauze disseminator, K, I, with the perforated distributor, L, and the series of inclined plates or evaporating surfaces arranged beneath the same as specified.

I also claim the combination of one or more plates, m, n, o, and clothes, p, p, arranged together in the vaporizer, in manner and so as to operate as set forth.

I also claim the combination of the tortuous passage, G, at the lower part of the vaporizer, with the series of perforated plates, m, n, o, covered with layers of cloth as explained.

I also claim the arrangement of the tank, E, with the vaporizer and the air pumping apparatus, such tank being made to communicate with the vaporizer by means of an overflow pipe, x, leading up into the vaporizer, as specified.

I also claim the peculiar valve apparatus at the top of the vaporizer, the same consisting of the tube, e, the box, i, the holes, g, g, and the annular valve, h, arranged together as described.

I also claim the combination of the fluid elevator and its operative mechanism, or their equivalents, with the vaporizer, arranged substantially as described.

I also claim the fluid elevator, or its equivalent, so arranged as automatically to elevate the carbureted liquid to the top or upper part of the vaporizer, substantially as described.

65,297.—DRAFT EQUALIZER FOR HORSE-POWERS.—Archibald Stewart, Troy, Wis.

I claim the combination of the tumbling rod, A, outer cylinder, B, coiled spring, E, interior cylinder or roller, C, and rod, D, with each other, substantially as herein shown and described and for the purpose set forth.

65,298.—APPARATUS FOR REMOVING WATER FROM THE HOLDS OF VESSELS.—H. L. Stibbs, Savannah, Ga.

First, I claim the combination of the horizontal pipe, C, bent outlet pipe, D, and cone-shaped bottomless cup, E, with each other, substantially as herein shown and described and for the purpose set forth.

Second, The combination of the shaft, G, and crank arms, F and H, with the pipe, D, and bottomless cup, E, substantially as herein shown and described and for the purpose set forth.

65,299.—CLOTHES SPRINKLER.—E. B. Taylor, South Sudbury, Mass.

I claim the reservoir, A, with its pipe, B, having extension flexible tube, C, terminating in a perforated head or cap, provided with a lever, when all constructed and arranged together substantially as and for the purpose described.

65,300.—MACHINE FOR SIZING HATS, ETC.—James S. Taylor, Danbury Conn.

First, I claim the diagonal vibrating felter, G, constructed and operating substantially as and for the purposes set forth.

Second, The mode herein described of imparting motion to the roll of goods by means of the felter, G, cranks, N, pitmans, L, and swings, H.

Third, The combination of the screws, K, sliding nuts, J, and swings, H, substantially as described, for the purpose of regulating the pressure of the felter.

Fourth, The felter, G, in combination with two or more rollers, C, substantially as and for the purposes set forth.

65,301.—COMPOUND FOR COATING OILCLOTHS, ETC.—John L. Tenney and John W. Bailey, Skowhegan, Me.

We claim the use of ground slate and clay when compounded in or about the proportions set forth and used in the manner and for the purpose described.

65,302.—MEDICAL COMPOUND.—James P. and Lemuel Thurmon, Warrenton, Mo.

We claim the improved medical composition produced substantially with the ingredients mixed together in or about the proportions stated, in combination and in mixture with the medical compound herein referred to.

65,303.—WOOD SPLITTING MACHINE.—Leonard Tilton, Brooklyn, E. D., N. Y.

First, I claim the two reciprocating cutters, G, G', of V form, placed one above the other in reverse positions and the lower cutter, G', in advance of the upper one, G, substantially as and for the purpose set forth.

Second, The hopper, H, in combination with the cutters, G, G', and the holder, K, substantially as and for the purpose specified.

Third, Operating the holder, K, from the slide, F, to which the cutters are attached by means of the rod, L, connected with the slide as shown, and the spring, N, as set forth.

Fourth, Constructing the hopper, H, of the vertical parts, f, f', one of which, f, is adjustable for the purpose of adapting the hopper to suit the length of the sticks to be split, as shown and described.

65,304.—DEVICE FOR TRANSMITTING MOTION.—Leonard Tilton, Brooklyn, N. Y.

I claim the cam, D, and bar, Q, in combination with the pulleys, F, I, J, gearing, H, C, E, belt, H, and belt shifter composed of the arms, N, N', arranged and operated automatically from the bar, Q, substantially in the manner as and for the purpose herein set forth.

65,305.—CLOTHES DRYER.—S. H. Titus, Pennington, N. J.

I claim the combination and construction of a clothes horse having the cross standards, A B and C, D, parallel arms, E F G H E I and F H, roller, L, L, and belts, M, M, patch, N, spring catch, P, and thumb head, O, with the clothes bars, K, K, K, substantially as above described and for the purposes herein set forth.

65,306.—FINISHING IRON WORK OF PLOWS, STOVES, PIPES, LEVHES, DAMS, ETC.—S. P. Townsend, Union Co., N. J.

First, I claim the finishing of plows, iron work for levers, dams, etc., etc., piling, &c. other iron and steel work known mentioned, substantially as described and for the purpose set forth.

Second, The restoration to good condition by the means described of iron and steel work which has been damaged by oxidation or corrosion.

Third, A new article of sheet piling made substantially as described and for the purpose set forth.

65,307.—HOISTING MACHINE.—J. W. Tucker, New York City.

First, I claim the arrangement of the pulleys, a, e, f, and bifurcated chains, F, in relation with each other and with the platform, C, and winding drums, E, substantially as herein set forth for the purpose specified.

Second, The locking cog, J, and sliding shaft, I, combined in relation with each other and with the gearing which operates to elevate the platform, C, substantially as and for the purpose set forth.

Third, The friction brake, K, and pulley, L, arranged with reference to each other and with the sliding shaft, I, and the gearing which operates to raise the platform, C, substantially as herein described for the purpose specified.

65,308.—WOOD PLANING MACHINE.—Wm. Tucker, Paris, Ill.

I claim the arrangement of the double cutter-head, E, and friction pulley, K, L, L, capable of being simultaneously shifted for right or left hand cutting, substantially as set forth.

65,309.—BRAIDING MACHINE.—William Tunstill, Paterson, N. J.

First, I claim the case, p, fitted upon the carrier, d, in a braiding machine and containing the bobbin or cop from which the thread passes off upon the line or nearly so of the axis of said bobbin or cop, substantially as and for the purposes set forth.

Second, I claim the ratchet pulley, q, over which the thread passes pawl, 2, and finger, s, in combination with the weight, r, substantially as and for the purposes specified.

Third, I claim the grooved ratchet wheel, q, over which the thread passes pawl, 2, and weight, r, in combination with the cop or bobbin, p, substantially as and for the purposes specified.

Fourth, I claim the friction wheel applied in substantially the manner specified between the driving pulley, k, and the main shaft, l, of a braiding machine in combination with the stopping and starting mechanism so that the machine may commence to move gradually instead of suddenly as set forth.

65,310.—CAR COUPLING.—Edward A. Turner (assignor to himself and John Morrissey), New York City.

I claim the coupling link, C, furnished near one end with the laterally projecting ears or lugs, h, in combination with the draw head, A, and a suitable coupling pin, a, substantially as herein set forth for the purpose specified.

65,311.—WAGON BRAKE LOCK.—Thomas Urie, Springfield, Iowa.

I claim the eccentric, c, in combination with the rod, a, the slotted lever, a, and the segment plate, b, for locking a wagon brake by means of the connecting rod, g, constructed, arranged and operating substantially as and for the purposes described.

65,312.—ROTARY STEAM ENGINE.—John H. Van Sandt and J. J. Hurt, Princeton, Ind.

We claim the arrangement of the cams, G, springs, g, valves, F, with reference to the system of cranks, e, connections leading from the shaft, L, substantially for the purpose specified.

65,313.—COMPOSITION FOR FILTERING PETROLEUM SIRUP AND OTHER LIQUIDS.—William V. Wyck, Belleville, N. J.

I claim the application of the above mentioned compound of soluble animal matter chalk and wood charcoal for the purification of petroleum and other oils, sugars, syrups and molasses and spirituous liquors by filtering these substances through the above mentioned compound or by any mode equivalent to filtration.

65,314.—PHOTOGRAPHIC CAMERAS.—George W. Venner, Charlestown, Mass. Antedated May 15, 1867.

First, I claim the compound sliding frame, M and J, made substantially as described and for the purpose set forth.

Second, The method of operating the said sliding frames, M and J, by means of the bar, H, roller, I, caps, c, c, or their mechanical equivalent and the lower part of the adjusting board, C.

Third, The sliding screws, a, a', substantially as described and for the purpose set forth.

65,315.—BUTTER WORKER.—S. H. Wade, Montgomery Center, Vt.

First, I claim the combination of the pressers, E, sliding beam, G, and operating levers, H and J, with each other and with the frame of the machine, substantially as herein shown and described and for the purpose set forth.

Second, The combination of the pivoted table, D, and sliding frame, B, with each other and with the frame of the machine, substantially as herein shown and described and for the purpose set forth.

65,316.—DEVICE FOR UNLOADING AND STACKING HAY.—William R. Waldron, Webster, Mich.

I claim the combination of the poles, pulleys, rope and anchorage when arranged substantially as herein described and for the purposes herein set forth.

65,317.—CARRIAGE SHACKLE.—F. M. Weller, Evanston, Ill. Antedated May 16, 1867.

I claim the carriage shackle constructed and operating substantially as described and specified.

65,318.—CAR SEAT.—Jesse S. Wheat, South Wheeling, W. Va.

First, I claim the cross head arms D, and slotted links c, in combination with the back of the seat C, and the ends A, arranged and operating substantially as and for the purpose herein described.

Second, The combination of the guides in combination with the guide plates c, arranged and operating as and for the purposes specified.

65,319.—MACHINE FOR CLEANING FLAX.—W. W. Whiddit.—Richmond, Ind.

First, I claim constructing a machine for cleaning flax, etc., with a door L, or its equivalent by which said machine is closed and the material confined until cleaned substantially as set forth.

Second, The octagonal shaped cylinder I, having flanged ends substantially as described and for the purpose specified.

Third, The reversible hopper B, operating on journals substantially as specified and for the purpose set forth.

Fourth, The arrangement and joint operation of hopper B, and door L, substantially as set forth.

Fifth, Loose pulley c, provided with pin n, and lug o, or their equivalents, wheel D, either with or without teeth, provided with cam S, the latter either permanently attached or adjustable, in combination with slide P, detent T, and device V, all arranged substantially as set forth and for the purpose specified.

65,320.—APPARATUS FOR COOLING LIQUIDS ON DRAUGHT.—Edward Whyte, Philadelphia, Pa.

I claim a cooler covered with felt ice-chamber, as described, opening a block B, and cylinders C, constructed and operating substantially as specified.

65,321.—COMPOSITION TO BE USED AS PUTTY FOR STONE WORK.—John R. William, Taunton, Mass.

I claim the improved composition of matter herein described for the purpose specified.

65,322.—LAMP BURNER.—John B. Wortham, Huntsville, Ala.

1st, I claim the ventilating collar or cylinder, c, constructed and operated as and for the purpose herein specified.

2d, In combination with the cylinder, c, the toothed edge of the plate, b, or its equivalent.

3d, The plates, i and j, for holding the cap open, as described.

65,323.—TANNING.—Francis H. Wright (assignor to himself, William C. Slade, and B. M. Pratt), Richmond, Ind.

I claim the use of the proportion of ingredients named in formula A and B, and the manner of applying the same to hides, furs, and skins, for the purpose of tanning the same rapidly and effectually.

65,324.—CORN HARVESTER.—John Wright and J. J. Johnson, Cold Water, Mich.

1st, We claim the arrangement of the knives, B, B, with double or oblique motion, operated with slotted guides, or their equivalent, in combination with the stationary knives, A, A, substantially in the manner and for the purposes herein set forth.

2d, The tilting platform, K, in combination with the stationary platforms, F, F, the spring curved arms, M, M, and spring catch, L, or its equivalent, substantially in the manner and for the purpose as herein described.

3d, The cutting knives, as arranged and operated in combination with the tilting platform, substantially in the manner and for the purpose as herein described.

65,325.—MACHINE FOR CUTTING OFF CIGARS.—P. Zern and W. Warwick, Pittsburg, Pa.

We claim the combination of the upright, B, with opening C, and plate, E, having similar openings, when the two are arranged and combined together substantially as and for the purpose described.

REISSUES.

2,622.—MACHINE FOR MAKING SEINE NETS.—William C. Hooper & Sons, Baltimore, Md., assignees of Benjamin Arnold. Patented Sept. 23, 1862. Antedated Aug. 3, 1860.

First, We claim the arrangement and combination substantially as described of the various implements employed in forming a loop, viz: the bar, m, c, and the row of needles, c, c, and the bars, l, and o, with their pins.

Second, We claim the bar, Y, with its double row of pins for the purpose of holding the netting, as set forth and when constructed substantially as described.

Third, We claim the combination of the regulating screw or screws, i, i', with the levers, d, d', and V, for the purposes set forth when arranged substantially as described.

4th, We claim the carriage, j, with the rows of bars, a, a, in combination with the raceways, S, S', and thread carriers, a', when arranged substantially as described for the purpose set forth.

5th, We claim the toggle levers, H, H', for the purpose of drawing up the knot, substantially as herein described.

6th, We claim a machine constructed and operating substantially as described herein for making nets or netting.

2,623.—OPAQUE PIGMENT.—D. L. Bartlett and G. H. Hunt, Baltimore, Md., assignees of Stuart Gwynn. Patented Dec. 19, 1865. Antedated Dec. 5, 1865. (Div. A.)

We claim opaque pigments made from any article whose normal atoms or molecules or particles have been crushed by pressure after having been purified, substantially as herein set forth.

2,624.—MANUFACTURE OF OPAQUE PIGMENTS.—D. L. Bartlett and G. H. Hunt, Baltimore, Md., assignees of Stuart Gwynn. Patented Dec. 19, 1865. Antedated Dec. 5, 1865. (Div. B.)

We claim the process of manufacturing opaque pigments by crushing and pulverizing the normal atoms or molecules, substantially as herein described.

2,625.—HARVESTER.—J. W. Bope, St. Louis, Mo. Patented Jan. 17, 1865.

First, I claim a tilting platform turning upon a pivot in rear of its forward edge and connected to the main frame of the machine through the medium of the finger bar only.

Second, A tilting platform having a fixed pivotal bearing at its outer or grain end and in rear of its forward edge in an arm or support which is attached to the finger bar and has no rear support from or connection with the main frame.

Third, A tilting platform vibrating upon a fixed pivot in rear of its forward edge in combination with the cutting apparatus and main frame in such manner as to leave an unobstructed space in rear of said platform for the delivery of the grain upon the ground.

Fourth, A cut-off for separating the falling grain from the completed gavel on the platform interposed by the tilting of the main platform upon a fixed pivot in rear of its forward edge.

Fifth, A platform which discharges the gavels by turning upon a pivot in rear of its forward edge in combination with the laterally projecting cutting apparatus of a two-wheel side draft machine.

Sixth, The combination in a two-wheel side draft machine of an adjustable cutting apparatus, a tilting platform connected thereto and turning upon a pivot in rear of its forward edge, and a lifting mechanism in such manner as that said cutting apparatus and platform can be raised for passing obstructions while the machine is in motion.

Seventh, Operating the tilting platform by means of the lever and the chain or cord, in the manner as and for the purpose herein described.

Eighth, The employment of a shield or guard for closing the opening between the finger bar and the side of the platform formed by the tilting of the platform on a pivot in rear of its forward edge.

2,627.—PICKER-STAFF MOTION FOR LOOMS.—The Amoskeag Manufacturing Company, Manchester, N. H., assignees of Nehemiah S. Bean. Patented Jan. 22, 1866.

We claim the improved arrangement of the rocker, b, the link, c, and the support piece, e.

Also the arrangement of the spring, f, with the support piece, e, the link, c, and the rocker, b.

Also the arrangement of the cars, g, with the link, c, the support piece, e, and the rocker, b, the whole being substantially as specified.

2,628.—GENERATING GAS AND OBTAINING OTHER USEFUL PRODUCTS FROM ANIMAL AND VEGETABLE MATERIALS.—Thomas D. Ledyard, Toronto, Canada, assignee by mesne assignments of J. J. Ensley. Patented Aug. 28, 1866.

I claim making a compound gas by the mixture in proper proportions of gas made from wood or other vegetable matter with gas made from bones or other animal matter, substantially as and for the purpose herein specified.

I also claim the combination of the perforated charge cylinder or vessel, d, open at the inner end and the horizontal close retort cylinder or chamber, c, substantially as and for the purpose herein specified.

I also claim the vapor condensing vessels or chambers, k, k, connected by the pipes, l, and provided with discharge cocks, m, m, when used in combination with the inclosing water tank, B, substantially as described.

I also claim the combination and arrangement of the tight vessel or chamber, g, and pipe, r, r, with the pipe, n, for the purpose of pumping off the condensed water which gathers therein without admitting air or allowing escape of gas, substantially as set forth.

2,629.—DESULPHURIZING COAL AND ORES.—Jacob J. Storer, Boston, Mass. Patented April 9, 1861.

First, I claim the process substantially as described of forcing into the interstices of coal containing sulphurous impurities by the pressure of steam or other fluid dissolved in it or mechanically conveyed by it chemicals proper to neutralize the sulphurous impurities.

Second, The employment of salts of ammonia forced by pressure of steam into the interstices of coals, as and for the purpose described.

2,630.—ATTACHING LABELS TO BOTTLES.—Elma E. Walton Newark, N. J., assignee by mesne assignments of Wm. N. Walton. Patented Sept. 23, 1862. (Div. A.)

First, I claim shaping the bottle whether in intaglio or in relievo so as to form a seat for and protect the label or inscription plate, substantially as and for the purpose set forth.

Second, The arrangement of the lip or ridge, a, whether distinct from or forming a part of the recess or seat for the label plate for preventing fluids, etc., from entering or passing between the inscription plate and bottle, for the purposes set forth.

2,631.—BOTTLE FOR DRUGGISTS AND CHEMISTS.—Elma E. Walton, Newark, N. J., assignee by mesne assignments of Wm. N. Walton. Patented Sept. 23, 1862. (Div. B.)

I claim a bottle formed with a recess or seat for a label whether in intaglio or in relievo and having secured therein by cement or other suitable substance a label with a glass or transparent label or inscription plate, as a new and improved article of manufacture.

2,632.—HARVESTER.—Cyrenus Wheeler, Jr., Auburn, N. Y. Patented Feb. 6, 1855. Reissued June 5, 1860.

First, I claim the combination of a vibrating frame, a finger bar attached to one corner or end thereof by a hinge, and a platform in the rear of said finger bar so as to leave an unobstructed space for the delivering of the grain on to the ground.

Second, The combination of a vibrating frame with the cutting apparatus hinged thereto, a driver's seat and an arrangement of one or more levers whereby the driver in his seat can raise and sustain the cutting apparatus when desired.

Third, The combination of a finger bar hinged to a vibrating frame and a removable platform connected with the said frame by means of the finger bar only.

Fourth, The combination of a hinged finger beam and a side delivery platform so arranged that the grain may be conveyed from the platform on to the ground out of the way of the horses or their next round.

Fifth, The combination of a hinged finger beam, a lever and a yielding or linked connection extending from the lever to the vibrating part of the machine to which the finger beam is attached, whereby the inner end of the finger beam is raised to pass obstacles in mowing and raised and sustained in reaping.

Sixth, The combination of a hinged finger beam, a lever, a yielding or linked connection extending from the lever to the vibrating part of the machine to which the finger beam is attached, whereby the inner end of the finger beam is raised to pass obstacles in mowing and raised and sustained in reaping.

Seventh, The combination of a hinged finger beam with an auxiliary draft rod or bar attached to the inner end of the hinged finger bar.

Eighth, The platform bar, Q, as a means of securing the platform to the finger beam and for strengthening said finger beam when it has the platform to carry, substantially as described.

Ninth, The inclined castor wheel, S, arranged as represented and in combination with the platform, whereby the latter is elevated when the machine is being turned short around to the right, substantially as described.

Tenth, In combination with a finger beam and platform placed in rear of the main supporting wheel, the two castors, N, S, arranged as described for allowing the machine to turn short around to the right, for the purposes specified.

Eleventh, A revolving track clearer when operated from a ground wheel through gearing, substantially as described.

DESIGNS.

2,659.—BOTTLE AND CAP.—Robert B. Parkinson, Philadelphia, Pa.

2,660.—HEEL PLATE FOR BOOTS, ETC.—Franklin Shaw, Baintree, Mass.

SIXTY-ONE patents reported in the above list were solicited through the Scientific American Patent Agency.—Eds.

Inventions Patented in England by Americans.

[Condensed from the "Journal of the Commissioners of Patents."]

PROVISIONAL PROTECTION FOR SIX MONTHS.

659.—COATING PAPER AND OTHER MATERIALS WITH FLUID SUBSTANCES SOLUTIONS AND COMPOUNDS FOR PHOTOGRAPHIC AND OTHER PURPOSES.—John C. Crossman, Boston, Mass. March 8, 1867.

956.—HANGING SHIPS' RUDDERS.—Henry H. Pember and Uriah E. Rogers, New York City. March 30, 1867.

1,150.—BREWERS' MASH TUNS.—James Walker, Cincinnati, Ohio. April 20, 1867.

1,162.—COTTON BALR TIE.—Henry Fassmann, New Orleans, La. April 20, 1867.

1,178.—MODE OF APPARATUS FOR REMOVING THE CONTENTS FROM CENTRIFUGAL SUGAR MACHINES.—Helem Morrill, New York City. April 23, 1867.

1,186.—SEWING MACHINE.—Lewis B. Bruen, New York City. April 24, 1867.

1,196.—CONSTRUCTION OF KNIVES, FORKS, AND OTHER IMPLEMENTS OF CUTLERY.—George Parr, Buffalo, N. Y. April 25, 1867.

1,202.—SELF-ACTING TACKLE HOOK.—Charles Luxton, Hudson, N. J. April 25, 1867.

1,256.—MANUFACTURE OF BOOTS AND SHOES, ETC.—Thomas B. Smith, Boston, Mass. May 1, 1867.

1,313.—BINDERS FOR PAPERS, ETC., WHICH ALLOW THE WHOLE OR PARTS OF THE CONTENTS TO BE REMOVED OR EXCHANGED.—Noah M. Shafer, New York City. May 4, 1867.

1,340.—MACHINE FOR MAKING ROVING AND FOR SPINNING INTO YARN.—Albert H. Gilman, Boston, Mass. May 7, 1867.

1,348.—HYDRAULIC VALVE GEAR FOR STEAM AND ANALOGOUS ENGINES.—Norman W. Wheeler, Brooklyn, N. Y. May 7, 1867.

1,349.—SKYLIGHTS AND VENTILATORS, AND SHAFT COUPLINGS FOR STEAM VESSELS.—Norman W. Wheeler, Brooklyn, N. Y. May 7, 1867.

1,350.—CONSTRUCTION AND PACKING OF SLIDE VALVE AND ADJACENT PARTS FOR STEAM AND OTHER ENGINES.—Norman W. Wheeler, Brooklyn, N. Y. May 7, 1867.

1,351.—APPARATUS FOR INTRODUCING AND CONTROLLING THE INTRODUCTION OF FLUIDS TO SURFACE CONDENSERS OF STEAM ENGINES.—Norman W. Wheeler, Brooklyn, N. Y. May 7, 1867.

EXTENSION NOTICE.

Daniel Noyes, of Abington, Mass., having petitioned for the extension of a patent granted to him the 25th day of October, 1853, for an improvement in machine hammers, for seven years from the expiration of said patent, which takes place on the 25th day of October, 1867, it is ordered that the said petition be heard at the Patent Office on Monday, the 7th day of October next.

Zur Beachtung für Deutsche Erfinder.

Nach dem neuen Patent-Ges