

SSUED FROM THE UNITED STATES PATENT OFFICE

FOR THE WEEK ENDING JUNE 10, 1862.

Reported Officially for the Scientific American

. Famphlets giving full particulars of the mode of applying for patents, under the new law which wentint of orce March 2, 1861, specifying size of model required, and much other information useful to threntors, may be had gratis by addressing MUNN & CO., Publishers of the Scientific American, New York.

5,497. James Adair, of Pittsburgh, Pa., for Improvement in Condensers for oil Stills:

I claim the use of a worm chest, constructed substantially as described, numersed in a vator vessel of water, for the purposes set

Causing the oleaginous vapor to be condensed, to pass through a zig-zag passage one side of which is a water surface, in order to secure a more rapid condensation, and to enable the condensed fluid to be drawn off at different points, in the manner described. So constructing the worm chest of the condensed separate the afterent qualities of oil by partitions, which the condensed fluid cannot pass, but which present no obstacle to the flow of the uncondensed upor and cas through the worm, for the purpose set forth. Admitting the cold water in a shower into the worm chestat its rear end by a perforated pipe, through which the gas and uncondensed approvale compelled to pass in their exit from the condenser, substantially as and for the purpose described.

tially as and for the purpose described.

35,498.—J. R. Agnew, of Mercersburgh, Pa., for Improvement in School Globes:

I claim a globe made of textile fabrics either alone or enabled that and strengthened, if desired, by wire netting or leather, sticking tally in the manner and for the purposes described.

This invention consists in the employment or use of textile fabrics

made either of mineral, vegetable or animal substances, or of leather, or such textile fabrics combined with each other or with leather, and strengthened if necessary by means of metal wire or other suitable material, for the purpose of manufacturing terrestrial, celestial, or terra-celestial globes.]

35,40% A. G. Burdford, of Freepert, Ill., for Imprevenient in Chalm Plantes: I claim the engineer of the buckets, with the morelles and connecting in a when used for the purpose of elevating water, or other had, subscientally its specifical.

35,500. - S. R. Brann, of Hillsboro', Ill., for Improvement

in Dampers:

I claim the arrangement of the spring, E, in combination with double crank shaft, B, damper, A, rod, D, and stove pipe or flue, C, all constructed and operating substantially in the manner and for the purpose shown and described.

[This invention consists in connecting the expansion rod with the

damper by means of a double crank shaft and spring, in such a manner that an expansion of sold red beyond a certain degree exerts no injurious influence on the reduced sold in the damper, and that when the damper is once closed and the rod contracts or expands, the entire strain exerted by the rod is thrown on the spring.]

35,501.—H. I.. and C. P. Brown, of Shortsville, N. Y., for Improvement in Grain Drills:

I claum, first, The arrangement of the flanched disks, B C, circular chan rel, n, and adjustable gaging device, E, substantially in the manner and for the purpose described.

Second, The arrangement of the flat-sided shaft, D, disk, C, with inner hub, c, and sationary disk, B, with box, b, substantially in the measurer and for the purpose described.

Third, The arrangement of the cut-off, P, and onter extension of the box, b, in combination with the inlet orifice, f, substantially in the measurer and for the purpose described.

35,502. N. T. Brown, of Onenwa, Iowa, for Improvement in Horse Rakes:

in Horse Rakes:

| contained a state of the bars, B'B', with the straight rake head, a, slide, D, rod. E, slotted lever, G, and reversible of the purpose shown and de-

This invention relates to an improved rake of that class which are drawn by a horse or team, commonly termed horse rakes. The invention consists in the employment of a revolving rake and a stop attachment applied to a frame, and so arranged that the driver or attendant ma^* , while either riding or walking, operate the stop attachment with the greatest facility to cause the rake to revolve and deposit its load, and then to stop the rake at the proper moment in order that it may lead itself by the draft movement

35,503.—W. E. Brewne, of Valley Falls, R. I., for Improvement in Explosive Projectiles for Ordnance:

I claim, first, The arrangement of the expanding wings, D. D. to swing from recesses in the sides of the body of the projectile upon pins, c. c. arranged obliquely to planes passing through the axis of the projectile, substantially as and for the purpose set forth.

Second, The combination of one or mere expanding wings, D. D., attacked to the hody of the projectile and one or mere nipples, or their equivalents, provided on the said body for the reception of percussion caps or other percussion priming, whereby the said wings are made to constitute hammers for the explosion of the percussion priming, substantially as specified.

35,504.—T. J. Campbell, of Lincoln, Ill., for Improvement in Automatic Revolving Ordnance:

I claim, first, The application of the copying belt, operated by the action of the cybude. claim, irst, The application of the copying belt, operated by the mof the cylinder, B, cond, I also claim the lubricating box, α , in combination with the rescaling swab, m, and rawned, n, substantially as set forth.

reciprecating swab, m, and rawned, n, substantially as set forth.

35,505.—P. S. Carhart, of Collamer, o'N. Y., for Improvement in Cultivators:

1 c.a.: A the means, substantially as shown and described, for regulating the depth of the penetration of the teeth, B, of the implement in the ground, to wit, the attaching of the draft pole, C, to the front bar, a, of the frame by a belt, d, and having its back and connected to the back bar, a, of the frame by a rack plate, E, lever, F, provided with a toothed segment, i, and an adjustable Pin, j, which fits in notches, f, in the plate, E, to operate as set forth.

(This impaction relates to an improvement in the class of continuous.)

This invention relates to an improvement in that class of cuitivators designed to be drawn by two horses, and be capable of being adjusted higher or lower, so that the latter may penetrate a greater •r less distance into the earth, as circumstances may require.]

35,506.—Gardner Chilson, of Boston, Mass., for Improve-

35,506.—Gardner Chilsen, et Besten, Mass., for improvement in Parlor Stoves:

I claim the separate grate rotator as made, not only witth a grate attachment or device for connecting the grate with it, but with a head or its equivalent, for receiving a key or lever.

I also claim the construction of the ashpit mouth frame with a socketfor the recython of the said grate rotator, made separate from the grate, and also in manner and start operate the grate, as specified.

I also claim the arrangement of the connect enlargement ring, the

35,567.—G. F. J. Celburn, of Newark, N. J., for Lamp Reflector and Chimney Protector:

I claim the arrangement and construction of a metal shield and reflector for lamp chimneys in the manner and for the purpose specified.

Asahel Cooley, of Chicago, Ill., for Improvement

35,508.—Asahel Cooley, of Unicago, his, ion large in Pumps:

I claim, lirst, The manner described of felling the cylinder above the piston, to wi, by the employment of the induction ring valve, cv, currounding the bore of the cylinder at the top of the same, the posts, cc e e cc, of which being so arranged as to direct the water underneath said valve, cc, or be closed by the falling of the same, substantially as described.

Second, The eduction passages, 1rst, or their equivalent, so constituted and arranged as to receive the water above the piston, and convey it underneath and through the eduction valve, i', substantially as described.

as described.

Third, The tubular piston red, F, and eduction valves, i and S, arranged and operated substantially as described,

Fourth, The parts, gC and dd, arranged substantially as described,
when combined with a pump cylinder and the tubular piston rod, F,
for the purposes set forth.

35,509.-F. W. Dahne, of Swansea, Glamorganshire, Great

30,000.—r. W. Dahne, of Swansea, Glamorganshire, Great Britain, for Improvement for Extracting Copper from Ores. Patented in England Sept. 26, 1860: I claim the reasting a mixture of copper ore with sulphate of iron so as to convert the copper into sulphate and the iron into peroxide, and then separating the sulphate of copper by hxiviation, as de-scribed.

35,510.—J. S. De Haven, of North Springfield, Ohio, for

Improvement in Grain Drills:
I claim the combination of the inclined and tapering metal tube, A, with the peculiarly-shaped metal toolh, as represented, and the spreading bolt, I, constructed, combined and arranged in relation to each other, as shown and described.

35,511.—Henry Evans, Jr., of Baltimore, Md., for Improvement in Apparatus for Steaming Oysters:
In combination with a steam box I claim the cars and tracks constructed and arranged substantially as described.

35,512.—J. U. Fiester, of Winchester, Ohio, for Improvement in Cooking Apparatus:
I claim the combination and arrangement of the top plate, E. middle plate, D. lower plate, C. and baker, B. so as to form an improved apparatus for cooking before grates, constructed and operating substantially in the manner and for the purposes set forth.

13. -F. G. Ford, of New York City, for Improvement in Window Sash:

in Window Sash:

fust, In the described combination with the mevable beads, C', I claim attaching the suspension cords, F, to the sash by means of hooks, II, placed in cavities in the edges o' the sash, admitting of the ready and complete removal of the sash from the window frame. Second, I claim fastening the upper and lower sash together by means of a screw, M O P, guided by a pin, N, in the socket, L, so as the pertended of the sash is to be reased or lowered, and protrude from the said socket and enter and bind within the mut, K, when the sash is to be raised or lowered and protrude from the said socket and enter and bind within the next, K, when the sash is to be raised or lowered and protrude from the said socket and enter and bind within the nut, K, when the sash is to be secured, all as explained.

to be secured, all as explained.

35,514.—William Fradgley, of Greenbush, N. Y., for Improved Cork Screw:

I claim the screw, K, and handle shaft, L, with their coupling heads, e and r, and their socket, a, the pin, p, in the shaft with its notch, f, in the two of the cylinder, E, the cylinder, E, with its groove, G, and pin, H, of outer cylinder, A, the whole operating together as a cork-crew, substantially in the manner set forth.

5.515.—John Gibson and Michael Heberger, of Cincinna-ti, Ohio, for Improvement in Hydrants: Ve claim the combination of the elbow, C.c., screw-shanked cork, annular gasket, G., scritcheon, E.e. and clamp nut, F. all con-neted, arranged and employed in the manner and for the purposes

John Mass., for Improvement in Coal Sifters:

Ne claim the sifter, composed essentially of the inclosing and supring ran, A, the suspension cross, or rim, C, and shaking handle, with their appendages, constructed and arranged so as to be used connection with a common cask or barrel and coal sieve, substanly as specified.

tany as specimen.

35,517.—J. C. Hall, of Cincinnati, Ohio, for Improved Sofa Convertible into a Table, Trunk, Cot, &c.:

I claim the arrangement of box. A a a', seat, G, ledge, G', and hinges, E, hinged and folding back, B B' F, the whole forming a convertible cut, settlee, desk and table, as described.

vertible cot, settee, desk and table, as described.

35,518.—A. G. Heckrette, of New York City, for Improved Washing Machine:
I claim the combination of the rollers, b, the cylinder, D, and the spring bearings, i when constructed and arranged substantially in the manner described and for the purpose specified.

And I also claim the application of the rubbing cylinder when constructed with fixed revolving reliers, as described, in combination with the concave of rollers, b, as set forth.

35,519.-V. W. Houck, of Buffalo, N. Y., for Improvement

35,519.—V. W. Houck, of Buffale, N. Y., 1er imprevement in Crezing Machines:

I claim, first, The endless revelving bed, composed of the jointed links, b, the said links being so constructed that a transverse surface line, will correspond to an arc of the longitudinal curve of the barrel, ornem's so, for the purposes and substantially as described. Second, Supporting the shafts, B, and hence the drums, B, in yielding journal boxes, b2, in combination with the described endless revolving bed, for the purposes and substantially as set forth.

Third, Wheel formers made adjustantial paractic the longitudinal curve of the barrel, for the purposes and substantially as set forth.

35,520.-H. N. Houghton, of Halifax, and C. H. Denison, of Brattleboro', Vt., for Improvement in Shells for Rified Ordnance:

claim the employment of the screw bolt, F, applied as and for the mirriose specified, as a fuse tube, substantially as described.

[This invention relates to the construction of the body of an elongated projectile of two or more pieces with interposed packing rings, the whole connected by a central screw belt, which projects through the head of the projectile for the reception of a wrench by which it may be screwed up after the insertion of the projectile in the gun, for the purpose of drawing the said pieces together, and thereby so expanding the packing rings as to prevent windage in firing, and to make the packing enter the rifle grooves in case of the gun being rifled. The imprevement consists in the employment of the aforesaid screw as a fuse tube by making it hellew for the reception of the fuse.]

35,521.—C. T. James, of Providence, R. I., for Improvement in Explosive Shells for Ordnance:

I claim, in combination with the conically-shaped base of the shot of hard metal, an expansible base piece of selt metal, arranged to operate substantially as described for the purpose set forth.

erate substantially as described for the purpose set forth.

35,552.—E. A. Jeffery and J. D. Quackenbush, of Corning, N. Y., for Improvement in Pumps:
We claim, first, the combination and arrangement of the cylinder, A, with the parts constituting the valve chambers, D. D., and with the packing chamber, H, so as to secure the suction and discharge pipes, G G and F F, in sockets in their respective parts, substantially in the manner and for the purposes shown and described.

Second, The india rubber rings, b b, and perforated screw rings, d of second, and the substantially as their compression to pack not only the piston, but the joints, an, of the cylinder, substantially as shown and described.

Third, The passage, K, for admitting water to the stuffing box of the piston rod and maintaining it there under the discharge pressure of the pump, substantially as and for the purposes set forth.

Fourth, In combination with the foregoing, the perforated tube, P, and casket, r, for excluding water from entering the cylinder from the stuffing box, substantially as set forth.

fire chamber, the even and the flue spaces about the sides and top of the oven.

35,507.—G. F. J. Colburn, of Newark, N. J., for Lamp Reflector and Chimney Protector:

1 claim the arrangement and construction of a metal shield and results of the results of the space of the spac

sasa assence and securing the effects described.

35,524.—Horatio R. Jones, of Addison, N. Y., for Improvement in Percussion-Cap Primer, for Firearms:

I claim the spring catch attached to the rear end of the capping to be to hold the trough or slide mits place, substantially as and for the purposes set forth.

poses set forth.

35,525. O. S. Judd, of New Britain, Conn., for Improved Means of Extinguishing Gas Lights:

I claim the sector, c, applied to the gascock and moved by a spring, or its equivalent, to shut off the gas, when the latch lever, g, is, the connected by the clock mechanism, as and for the purposes set forth.

35,526.—J. W. Kingman, of North Bridgewater, Mass., for Improved Mode of Making Buildings Waterproof:

I claim the new mode of rendering surfaces, &c., waterproof, the same consisting in applying, by rubbing its such surfaces, this shoes of fibrous materials first ceated with such a paste or cement as will permit waterproof liquids to pass through and then saturating them with such waterproof liquids as will pass through both the clothaud thepaste, substantially as described.

35,527.—Sylvester Louis. of Rochester, N. Y., for Im-

35,527.—Sylvester Louis, of Rochester, N. Y., for Improved Mode of Treating oils and Fats, for Rendering them more Useful for Burning in Lamps, Lubricating Machinery and other Purposes:

I claim the treatment of vegetable and animal bits and fats, by the use of benzole or naphtha and annote combined, with the manner and for the purposes described.

manner and for the purposes described.

35,528.—Lafayette Louis, of Buffalo, N. Y., for Improvolument in Pianos with Melodeon Attachment:

I claim, first, The arrangement of a melodeon tube board, including reeds and swell, above the keys and below the sounding board of a pianoforce, in the manner and for the purpose and substantially as described.

scribed.

Second, So combining and arranging a melodeen tube board with a bianoforte as that the performer can instantly and at pleasure disconnect the melodeen tube board from the pianoforte keys, in the manner substantially as set forth.

Third, The combination and arrangement of the tremelo, G, with the melodeen tube board, E, and pianoforte, substantially as described.

cribed.

Fourth, The combination of a compound rotary bellows with a piano rote and includent, the bellows being provided with a valve, 12, for gaptaing the degree of air pressure upon the melodeon reeds, subtantially as set forth.

5,529.--W. W. Lyman, of West Meriden, Conn., for Improved Fruit Can: incombination with the stapper, and ring, h substantially in the manner and for the proved by

35,530.-E. A. McAleer and J. Shively, of Canton, Ohio, for Improvement in Weighing Faucets:
I claim, first, The combination with valve, C, of the the rand peculiarly constructed weighing-scale beam, E, substantially as set forth.

Second, The combination of the rear valve, c, main valve, C, with the spigot, substantially as and for the purposes set forth.

the spigot, substantially as and for the purposes set forth.

35,531.—R. W. McClelland, of Springfield, Ill., for Improvement in Hubs and Journals for Carriage Wheels: I claim, first, In connection with a cast-iren hub made in two set tions, the driving in of the spokes radially into one of the sections, in combination with the shoulder, recess, flances and screw threads, to brace and bind the two sections to each other and to the arched part of the spokes, substantially as described.

I also claim, in combination with a cast-iren hub, sectional, adjustable, and removable metal boxes to take the bearings of the journal, substantially as and for the purpose set forth.

I also claim, in combination with sectional adjustable boxes in the hub, the removable bearings on the journal of the axle, substantially as and for the purpose set forth,

35,532.—J. W. Merrill and I. H. Barro, of Section 1.

5,532.—J. W. Merrill and J. H. Rowe, of Boston, Mass., for Improvement in Feet-Warming Apparatus:

I claim the separate footcase or cases as combined with and applied to the stand, and made substantially in the manner and so as to prerate as described.

35,533.-W.

B. Merrill, of Philadelphia, Pa, for Improvement in Coal-Oil Burners:

I claim, first, The smoke consumer composed of a metal plate with the flat projections, f1, and turned-up projections, d and d', when arranged within the perferated casing, A, of a coal-oil lamp burner, as and for the purpose set forth.

and for the purpose set forth.

35,534.—W. O. B. Merrill, of Philadelphia, Pa., for Improved Coal oil Lamps for Railway Cars:

I claim the chimney composed of the hollow metal cap, B. glass tabe, A, and metal base, C, with the projections, E, and E', or their equivalents, for the attachment or suspension of the chimney to the side or roof of a car orto any other object, in combination with the detachable reservoir, D, and its burner.

Second, The projections, s, on the reservoir, in combination with the openings, in m, on the flange, i, of the base, C, the spring, c, its rod, b, and the stop, a.

Third, The combination and arrangement of the base, C, flange, e, perforated flange, i, and perforated cap, H.

Third, The combination and arrangement of the base, C, flange, e, perforated flange, i, and perforated cap, H.

35,535.—W. • B. Merrill, •f Philadelphia, Pa., for Improvement in Lamp Chimneys:

I claim a lamp chimney, composed of a metal base, A, with an annular projection adapted to the burner of a lamp, and two or more plates of plain glass confined by metal ribs or plaines, substantially as and for the purpose set forth.

I also claim linging one or two more of the said plates or ribs to the base, and confining the same at the top, by the attachable cap, G, as specified.

35,536.—Franklin Miles, of Rochester, N. Y., for Improvement in Fanning Mills:
I claim compounding the motion of the abrapt vertical vibration or jar, by means of the double bearing. H, of the rock shaft, c, a. if the sockets, g g substantially as, and for the purposes described.

I also claim the combination and airrangement of the grass-seed box, e. hopper, S, sieve, in, and fan, F, substantially as and for the purpose described.

Talso claim the feed board, L, provided with the guide stem, T, and spring, u, when used in combination with the hopper for adjusting and holding the same, substantially as set forth.

35,537.—N. W. Northrup, of Greene, N. Y., for Improvement in Railroad Chairs and Rails:
I claim a double-headed rail with the ribs or flanges, shots, and wedge shape movable jaw, combined as specified and for the purposes testing.

I claim the chamber, G, into which the gas is poured from the lifet

35,538.—J. H. Norten, of Boston, Mass., for improvement in Gas Regulators:

I claim the chamber, G into which the gas is poured from the inlet pipe, H, in combin tion with the valve, f, communicating with the pressure chamber, D, when said valve is commanded by the quick-silver cup, M, suspended directly from the inverted cup, C, substantially as specified.

35,539.—M. P. Nerten, ef Trey, N. Y., for Pest Office Way-Bill Envelope: I claim a Pest Office way-bill envelope, constructed substantially as und for the purpose described and set forth.

335,540...Jonathan Parker, of Biddeford, Me., for Improvement in Churns:

I claim the dasher as made with perforations, arranged at an inclination to its faces, to operate in manner substantially as specified.

clination to its laces, to operate in manner substantially as specified.

35,541.—Moses Pond, of Boston, Mass., for Improvement in Heaters:

I claim the upper joint of the pipe, consisting of the cup or its equivalent, with the sand and the collar, N, with its elongated slots, K K', and the rim projecting into the cup or its equivalent, all constructed substantially as above specified and operating as described, so as to allow the expansion and contraction of the pipe, and at the same time, by making the joint air tight to prevent gas and smoke from escaping into the hot-air chamber.

35,542.—Paul Pryibil, of New York City, for Improved Tension Regulator for Sewing Machines:

I claim, first, The arrangement of the friction pulley, D, with the connical hub, E, in combination with the screw spindle, G, and spring Ad, F, constructed and operating substantially as and for the purpose specified.

Second, The arrangement of the elliptical nut. d. on the soring. H

specified.

Second, The arrangement of the elliptical init, d, on the spring, H, in combination with the screw spindle, G, and pulley, D, substantially as and for the purpose described.

Third, The recess, e, and shoulder, on the screw spindle, G, in combination with the lower part, g, of the nut, d, as and for the purpose set forth.

35,543.—M. A. Richardson, of Sherman, N. Y., for Improvement in Machine for Working Butter:
I claim the employment of the tub. G, worker, H, and shalt, D, with the arm, C, and hinged extension, C', the several parts being constructed and arranged to operate in the manner and for the purpose specified.

specified.

Second, The use of the lever, a, upon which the bottom of the shaft, D, is situated, or in which it has its bearings for the purpose of throwing out of gear the lower end of said shaft, as is fully set forth. Third, The use of the bar, L, lever, M, and scale, N, when used with the standard, B, as and for the purpose specified.

the standard, B, as and for the purpose specified.

35,544.—Michael Ritner, of Vincennes, Ind., for Improvement in Sabot for Projectiles of Rifled Ordnance:

I claim a hollow sabot of vulcanized india rubber, constructed substantially as described, and applied in the rear of a cannon bail or other projectile without enveloping the same or being attached thereto; constituting a cushion to receive the percussive force of the explosion, and adapted to expand by the pressure of the gases so as to effectually prevent their escape.

[The object of this invention is to permit the use of leaden projectibles up may a follower agains. The scale is made to act both is a

tiles in guns of large caliber. The sabot is made to act both as a cusnion and a packing, and prevents the slugging of the ball either by the heat, friction or percussive force of the gases.]
35,545.—Henry Ruth, of Summerfield, Ill., for Improvement in Corn Planters:
I claim, first, in combination with the rollers, L, the toothed curved plates, M, arranged in a hinged frame as described.
Second, The cam, F, in combination with the valve, E, constructed and arranged as described. cushion and a packing, and prevents the slugging of the ball either by

and arranged as described.

35,546.—J. L. Sater, of Cincinnati, Ohio, for Improvement in Planting Machines:
I claim the combination of the hollow perforated open cylinders, B B, with the grain boxes, A A, when the said hollow cylinders are combined with the obliquely-perforated segmental blocks, D D, and the conducting tubes, E E, in the manner and for the purpose substantially as set forth.

stantially as set forth.

35,547.—W. C. Shipherd, of Saratoga Springs, N. Y., for Improved Boot-Crimping Device:
I claim the notches, i.o., made respectively in the tree, E, and plates, k, of the clamp, G, as shown, in combination with the clamp for med of the nuts, p, screw rods, p', and clasps, q, all arranged as shown for the purpose of securing the crimped leather to the tree.

[This invention consists in the employment of a boot-tree attached to a sliding frame, in such a manner that it may be readily removed therefore when peressary in capacition with a grimping claim and

therefrom when necessary, in connection with a crimping clamp and a series of tree clamps, all being so constructed and arranged that the uppers and legs of books may be neatly crimped at a single operation, and then secured to the tree with great facility.]

35,548.—J. N. Smith, of Jersey City, N. J., for Improve-

so, 348.—J. N. Smith, or Jersey City, N. J., for improvement in Repeating Firearms:

I claim, first, Ejecting the charge case laterally from the bore of a gun, through an opening made in the side of the bore, in the manner substantially as described.

Second. The employment of the carrier, F. or its equivalent for opening the gun to introduce the charge, substantially as set forth. Third, I claim the arrangement of the feed wheels, M, and N, the same being connected by the spring, j, and forming a compound wheel for bringing forward the charges automatically and with precision, as specified.

wheel for bringing forward the charges automatically and with precision, as specified.

35,549.—J. N. Smith, of New York City, for Improvement in Coal-Oil Lamps:
I claim the flexible litting cup, L, constructed and operating substantially as and for the purpose specified.
I also claim the combination of the flexible lifting cup, L, and disk, J, united and arranged with their apertures, l, and j, substantially as and for the purposes setforth.
I also claim the evaporating tank, P, with its open aperture, p, or its equivalent, substantially as described and applied to the lamp for the purposes specified; and this I claim whether arranged and applied as described, or in any other way combined with a lamp to produce the effects, and for the purposes estforth.
I also claim the safety valves, F G, and K, applied to the oil passages, and operating substantially in the manner and for the purposes described.
I also claim the employment of a retort, for vaporizing the oil at the burner of a lamp, substantially as and for the purpose specified.
I also claim the sparate oil chamber, r, in the retort, a arranged as to cut offor let on the supply of oil thereto from the oil reservoir at pleasure, substantially as specified.
I also claim the separate vaporizing chamber, X, in the retort, arranged so as to be cut off from, or connected with the oil chamber, r, substantially as set forth.
I also claim the retort cup. T. arranged so as to regulate or close the

I also claim the separate vaperizing chamber, X, in the retert, arranged so as to be cut off from, or connected with the oil chamber, r, substantially as set forth.

I also claim the retort cap, T, arranged so as to regulate or close the flame orifice of the burner, substantially as specified.

I also claim the rarifying chamber, V, substantially as and for the purposes set forth.

I also claim the chamber, W, arranged and operating substantially as and for the purposes specified.

I also claim the radiating cone, U, constructed, arranged and operating substantially as and for the purposes set forth.

I also claim the small auxiliary burner, situated within the rarefying chamber, V, substantially as and for the purposes specified.

I also claim the double cone, Y, arranged and operating in combination with the small burner, substantially in the manner and for the purposes described.

I also claim the register plate, Z, for controlling the introduction of the draft air and vapors into the rarefying and blaze chambers, V W, in combination therewith, substantially as and for the purposes specified.

35,550.—B. F. Southgate, of Bridgewater, Vt., for Improved Sawing Machine:
I claim the levers, N.N., previded with the pawls, O, and operated from the saw gate or sash as shown, in combination with the ratchets, M.M., shafts, D., and the oords or chains, K. or their equivalents, all arranged substantially as shown for giving the feed movement to the carriages, I, as set forth.

[This invention relates to a new and improved sawing machine of that class designed more especially for sawing small stuff, as for instance fellies for wheels, scroll work and the like. The object of the invention is to obtain a machine which may be used with either one ortwo saws in the same gate or sash, and be provided with a simple automatic feed mechanism, all being se arranged that both saws may be used simultaneously on different work, or either used separately as may be desired.

35,551.—James Spear, of Philadelphia, Pa., or Improvement in Stove Doors:

I claim the combination of the openings, b b', at the bottom of the door and the opening, a a', at the top of the frame when in connection when the mica and metal plate or wire gauze, constructed substantially as described.

35,552.—Albert Taplin, of Providence, R. I., for Improved Burner for Coal Oil Lamps:
I claim turning the rim of the cone upward at, A A, and outward at B B.

James Thierry, of Aurora, Ill., for Improvement

55,505.—James innerty, or Autora, in, not improvement in Machines for Turning of Grindstones:

I claim the combination of a circular cutting tool, C, a spindle, D, and a fiame, F, tegether with the wedges, K K' K'' K'', or their equivalents, with a grindstene-turning machine so constructed that it will operate by the joint effects of its centact with a grindstone in motion, and the inclination of said spindle in relation to said grindone, as described above substantially.

[This invention consists in constructing the squeezer of cast metal and of such form or in such a manner that a very (turable, economical and light implement for the purpose is obtained, and one that may be manipulated or operated with greater facility than the ordinary kinds in general use.]

in general use.]

35,555.—C. A. Wheelock, of Uxbridge, Mass., for Improved Steam Trap:
I claim my impreved steam trap, as made substantially as before described; that is to say, not only with an abutment, E, and with the valve and stem separate from such abutment, and movable with the pipe as explained, but with the valve so arranged as to be closed by pressure of the steam, and opened by contraction of the pipe under circumstances, substantially as above set forth. And, furthermore, in connection therewith, I claim my improved arrangement of the valve seat or the same, and its exhaust passage relatively to the valve stem and its stuffling bex, whereby the latter is separated or insulated from the pressure of the steam of the expansion pipe, as specified.

35,556.—E. A. Wible, of Georgetown, Cal., for Improvement in Preserving Grapes and other Fruit:

I claim the packing of fruit sprinkled with powdered alum in layers, between layers of dry sand, in air-tight boxes, substantially as specified.

[This invention is stated by the inventor to be capable of preserving

grapes in their natural state for a year. The claim describes its na-

-G. G. Wolfe, of Troy, N. Y., for Improvement in Stoves:
I claim the combination of the partition, F, with the fire cylinder, B, substantially as described and set forth.

n, substantially as described and set ferth.

35,558.—W. A. Wood, of Hoosick Falls, N. Y., for Improvement in Harvesters:

I claim, first, Uniting the platform to the main frame by the bent red, a, and hinged red, e, and their appliances, so that the platform may be raised or lowered on the main frame, substantially as described.

I also claim the plate, d, as forming a hinged support to the red, e, and a means of uniting the platform and linger bar, substantially as described.

and a means of uniting the particle and described.

I also claim the device for raising and lowering the outer side of the platform, namely, the sleeve and its adjusting holes on the arm or ontside wheel supporter, E, and similar adjusting holes in the rod, c, and a pin or key passing through them, substantially as set forth.

35,559.—A. J. Bowen (assignor to himself, and L. K. Bowen), of Baltimore, Md., for Improvement in Tobacco Pipes:
I claim the two tubes or channels, a, and b, in the stem, in combination with the bowl, c, and cup or receptacle, d, as set forth.

45,560.—J. E. Everett (assignor to W. Everett and Co.,) of Dedham, Mass., for Improved Wringing Machine: I claim the above described water-conducting attachment for clothes wringers, consisting of the conducting bex with its lengitudinal partition, cand trough, D, which may be moved to either side of the partition, substantially as specified.

35,561.—J. H. Fairchild (assignor to himself, and C. P. Stimets), of Highgate, Vt., for Improved Sap Bucket for the Manufacture of Maple Sugar:
I claim the combination of the cement and bex for the specific purpose of catching sap or a sap bucket to be used in the manufacture of maple sugar.

pre sugar.

562.—Hezekiah Conant (assignor to the Willimantic Linen Co.), of Willimantic, Conn., for Improvement in Machines to Label Thread Spools: claim, first, The combination of feeding, holding, punching, pastapplying and ticket-presenting apparatus, all substantially such lescribed.

as described.

Second, I claim the combination, substantially as described, of feeding, withholding mechanism or apparatus, and I claim these in combination with applying mechanism on only substantially such as specified or in combination with punching out and applying mechanism, substantially such as creatified.

tally such as specified.

Third, I claim punching out and applying mechanism substantially such as described in combination with pasting mechanism, substan-

Third, I claim punching out and applying mechanism, substantially such as described in combination with pasting mechanism, substantially such as specified.

Fourth, I claim a ticket-presenting apparatus, substantially such as described, in combination with punching and applying mechanism, substantially such as specified.

I claim the combination of punching with applying mechanism, substantially such as specified.

Sixth, I claim in combination with ticket-presenting mechanism substantially such as described a holding mechanism, substantially such as described, in combination a rack, a belt and a frame provided with projections, all substantially such as secribed, in combination with a frame having projections thereon as specified.

Eighth, I claim in combination a rack, a carriage, and a belt, substantially such as described, in combination with a frame having projections thereon as specified.

Tenth, I claim in combination a rack, a carriage, and a belt, and two pawis provided with proper mechanism, substantially such as described or causing them to act alternately, as specified.

Tenth, I claim in combination with a forked gate, whose range of motion is adjustable, whereby the same holding mechanism may be adapted to hold and center articles of different size.

Eleventh, In combination with a trough or lower support for a specified or similar article, I claim two forked gates, each having an independent downward motion substantially as specified, whereby articles of different diameterate projection of samples mechanism for applying labels or tickets thereon.

Twelfth, I claim in combination ticket presenting, punching, applying and pasting mechanism, all substantially such as described.

35,563.—George Cook, of Bristol Station, Ill., assignor to himself and William Scarlett, of Aurora, Ill., for Im-

himself and William Scarlett, of Aurora, Ill., assignor to himself and William Scarlett, of Aurora, Ill., for Improvement in Harrows:

I claim, first, Inclining the teelh of a harrow at the will of the operator, so as to discharge the obstructions accumulated therein, and restering the same to their positions for working, without lifting the harrow, all substantially in the manner set forth.

Second, The arrangement of the teeth A, beams 12 3 &c., eyes C C' and D D', and any suitable force for extending and contracting the same, so as to operate as set forth.

Third, The employment of the lever, F, and links, H, as arranged relatively to the beam, 12 3 &c., and to the cyes, C C' and D D', and links, cand, as to operate as set forth.

Fourth, The uniting or connecting of the rods, H, to an eye, G, which is higher than the eye or steeple, E, to which F is connected so that the extending and contracting force applied to the harrow by the elevation and depression of F, shall act diagenally in the vertical plane as set forth.

Fifth I claim connecting the lever, F, and the drag link B. to a

set forth.

Fifth, I claim connecting the lever, F, and the drag link, B, to a oint, E, ferward of and lower than the center of the front beam I, ubstantiallially as and for the purpose set forth when the parts are ranged relatively to the several other cross beams, 23, &c., and their onnections, and to the links or bars, H, as shown.

Sixth, I claim securing the lever, F, in different positions by means the notches, i?, in the posts I, in combination with the other parts, ubstantially as represented, for the purpose of helding the teeth firmly in the several positions desired for working in various soils.

35,566.—James McNamee (assignor to himself and H. F. Steckel), of Easton, Pa., for Improvement in Registers for Bar Rooms:

for Bar Rooms:

I claim the bex, A, provided with the numbered compartments, B, having a tilting or movable bottom, D', in connection with the drawer, E, also placed in the bex. A, and arranged with the compartments, B, substantially as and for the purpose specified.

I further claim the passages, D, numbered as shown at the the front of the bex, A, and provided with the inclined bottoms, b, when said passages are used in connection with the numbered compartments, B, tilling or moving bottom, D', and drawer, E, for the purpose set forth.

35,567.—Stuart Perry, of Newport, N. Y., assignor to C. H. A. Carter, of New York City, for Improvement in Horse Powers:

I claim, first, supporting the end of the shaft, B, in or near the cen-er of the main drive wheel, E, for the purpose substantially as de-

scribed. I also claim, in combination with a main drive shaft that has upon its outer end a wheel that may run over an uneven track, the hanging of the opposite end in a rocking or piveted bex, to yield thereto, substantially as described. I also claim, in combination with a main drive wheel, E, and the bevel pinen, g, the compound pinion, F, composed partially of square and partially of beveled teeth, substantially as and for the purpose set forth.

forth.

35,568.—George Potts (assignor to himself, Joseph and William and A. and J. R. Potts), of Yocumtown, Pa., for Improved Washing Machine:
I claim, the cembination and arrangement of the vat, A, links, G. G, rock shaft, I, and levers, E. E, firmly or rigidly fastened to the rubber, D, substantially as described, for the purposes set forth.

35,569.—J. M. Sanborn, of Hardwick, Vt., assignor to himself and E. M. Gifford, of Wolcott, Vt., for Improved Portable Milk Cooler:
I claim the new article of manufacture described, adapted to the filtering of milk or other liquid through water so as to change its temperature, and to be readily applied to and removed from an ordinary vessel, substantially as and for the purpose set forth.

35,570.—Rufus Sibley (assignor to Samuel Mowry), of

35,570.—Rufus Sibley (assignor to Samuel Mowry), of Greenville, Conn., for Press for Photographs:

I claim, in combination with the bed and rails, the traveling truck or carriage, and the polishing roll, operating in connection therewith, substantially in the manner and for the purpose described.

substantially in the manner and for the purpose described.

35,571.—J. E. Smith (assignor to himself and C. T. and J. N. Chester), of New York City, for Improvement in Electro-Magnetic Telegraphs:

1 claim, the combination of electro-magnets in a main telegraph circuit substantially as described, whereby the vibrating armature lever of the first or receiving magnet is made to discharge or neutralize the escape or abnormal currents flowing through the second or working magnets when the main circuit is opened in the operation of telegraphing, substantially as set forth.

ing, substantially as settern.

35,572.—R. M. Treat (assignor to himself and G. H. Daley), of Morris, Conn., for Improvement in Horse Rakes:
I claim, first, The rigid bars, d.d. or their equivalent, extending out from the back of the turning axle, A a b, beyond the rear of the circumference of the wheels, for supporting a long raker with short teeth, in the manner and for the purpose as described.

Second, The swinging, adjustable clearer or discharger, G, arranged and operating substantially in the manner and for the purpose described.

and operating substantially in the manner and the perpendicular and operating substantially in the manner and the perpendicular and perating substantially in the manner and for the purpose described.

Fourth. The arrangement of the wheels, C.C., axie, A. a.b., shafts, B., seat D., bars, d.d., and raker, F., with hand lever, H, in the manner and for the purpose described.

35,573-W. H. Willard (assignor to Sarah E. Willard), of Cleveland, Ohio, for Improved Apparatus for Adjusting Propellers relatively to the Draft of Water.

I claim, the combination of the oscillating bed plate, A, rotating packer, B, and guard or fender, V, constructed substantially as described, and for the purposes set forth.

35,574.—Smith Groom, of Troy, N. Y., for Improvement in

35,575.—James McCholland, of Reading, Pa., for Improvement in Giffard's Injector:
I claim the chamber, A, with the branch, c, communicating with the boiler and branch, b, for the water, in combination with the nozzle, B, for the steam; the whole being formed and arranged substantially as and for the purpose set forth.

DESIGN.

-G. L. Kelty, of New York City, Design for Tassel

TO OUR FRIENDS.

NOW IS THE TIME TO FORM CLURS.

The present number closes another volume of this journal. We appeal to its friends in all sections of the country where mail facilities exist to endeavor to form clubs for the coming year. We feel justified in asserting that no other journal in this country furnishes the same amount of useful reading, and especially at the extraordinarily-low price at which it is furnished. Ten persons can club together and get the paper at \$1 50 each for one year. Twenty persons clubbing together can have it at the rate of only \$1 40. Think of getting a volume of 832 pages of useful reading matter, profusely illustrated with between 500 and 600 orginal engravings, for such a small sum of ly in the several positions desired for working in various soils.

35,564.—J. R. Hyde (assignor to Charles Eddy & Co.), of Troy, N. Y., for Improvement in Stoves:
I claim the suspending of the said boiler, D. at the upper corners thereof next adjoining the stove, by means of the brackets, b. in combination with the brackets, c., projecting from the said boiler, D. into the recess, a., of brackets, b. is that, by the weight of the water in the said boiler, it will be brought into close compaction to and with the stove, thus connected with said woller, substantially as described and stoyer. Luke Kavanaugh (assignor to himself, and Gage, Campbell & Gage), of Waterford, N. Y., for Improvement in Burrs for Knitting:
I claim a retary knitting burr, having removable wings, A, held stamoney. Single Subscriptions, one year, \$2; six months, \$1. Even though the times may be hard, we must keep reading and thinking, and thus be prepared to overcome temporary difficulties and open new channels of wealth and prosperity .-Friends, send in your clubs; at least renew your own