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. Pamphlets giving full particulars of the mode of applying for patents, size of model required, and much other information useful to inventors, may be had gratis by addressing MUNN & CO., Publishers of the Scientific American, New York.

27,606.—James Adair, of Mendota, Ill., for an Improve-

I claim the combination of two extensions above claimed, and singe-like connection, whereby the coulter and mole are flexible upon each other horizontally independently of one another and immovable upon each other perpendicularly, as and for the purposes set forth.

27,607.—J. W. Adams, of Pleasant Valley, Vt., for an Improved Stave Machine:

I claim the reciprocating bed, H, operated by the pinion, G, and a movable rack, K, and the supplemental yielding and rigid beds, Q T, in connection with the concave and convex knives, R S, and pressure rollers, N O P P, all being arranged for joint operation, as and for the

urpose set forth. [This invention consists in the employment or use of concave and convex stationary knives, pressure rollers, and a reciprocating bed operated in a novel way, and the whole arranged for joint operation, whereby staves may be dressed at both sides by a very simple, economical and compact machine.]

27,608.-T. F. Allen, of Dyersville, Iowa, for an Im-

27,608.—T. F. Allen, or Dyersville, lowa, for an Improvement in Brackets for Railroad Car Trucks:
I claim a suspension bracket, D, which is capable of changing its bearing point, and which acts by reason of changing its point of bearing, with a counteracting force against the lateral vibrations of the car body, substantially as and for the purposes set forth.

[This is a very ingenious, simple, and useful invention. as it checks to a constraint extends frame whilsthe car body is vibrating, laterally, this check.

the truck frame whilethe car body is vibrating laterally-this checking the preponderance of weight prevents much of the migriouseffect on the side springs of the truck. The result is produced by making the bearings of the brackets at their upper ends in the form of the rocker of a rocking chair, this form allowing them to change their point of contact on the truck figure to the same extent that the lower and swings outward, and consequently a leverage to act on the truck frame is obtained, said leverage counteracting the outward movement of the car body,]

27,609.—S. A. Bailey, of New London, Conn., for an Improvement in Wringing Machines:

I claim the combination of the rubber rollers, BB, with the oscillating guide-board, D, for the purpose of washing and wringing the ciothes, and at the same time directing the course of the water, present from the clothes into either tub, substantially as set forth.

27,610.-J. S. Barden, of New Haven, Conn., for an

27.610.—J. S. Barden, of New Haven, Conn., for an Improvement in Steam Pumps:

I claim the arrangement and combination of a steam engine, a pump, two valve chests, and two slide valves, in manner and so as to operate substantially as described and represented.

I also claim the combination and arrangement of the secondary piston with the main pump piston, constructed tubular and having appliances substantially as described, by which it may be either attached to the main pump barrel, or to the secondary piston, substantially in manner and for the purpose as specified.

I also claim the improved balanced valve, and its chest, made substantially as described, in combination with the pressure chamber, t, furnished with an elastic bottom, u', and applied to the valve and chest, essentially in manner and to operate as explained.

I also claim, in combination with the steam cylinder piston, the pump piston and the sliding box of the crank of the driving shaft, thus separate crossheads (or guides for such box, and screws or equivalents so applied to such crossheads, as to enable them either to be drawn together, or forced apart, in manner and for the purpose specified.

17,611.—J. F. Beckwith, of South Alabama, N. Y., for an Improved Hub for Carriage Wheels:

I claim so constructing two metallic plates A A, which are provided rovided with grooves, a a, that they will clamp and hold the spokes sparate and distinct from each other on their edges while they are flowed to bear and press against each other on their faces, substantally as and for the purpose specified.

27,612.—Harkness Boyd, of New York City, for an Improved Trap for Water Closets:
Iclaim, as a new article of manufacture, the trap or bend for water closet and other pipes, cast in half sections, as specified, whereby the metal is formed of additional thickness at the joints and parts exposed to strain or wear, as set forth.

27,613.-Adolph Brown and Felix Brown, of New York

27,613.—Adolph Brown and Felix Brown, of New York
City, for an Improved Sugar-crushing Apparatus:
We claim the arrangement of frames or plates provided with
knives or cutters on their underside, and hinged on one end to the
frame of the machine, to produce an action similar to the blades of
sharrs. in combination with a movable bed or carriage, for the purpose of cutting loafsugar in small pieces, substantially as described,
We further claim the arrangement of two or more cutter frames,
with their corresponding movable tables combined together, and situated behind or below each other, and giving to the latter a quicker
motion than to those situated before them, substantially in the manner and for the purpose set forth.

27,614.-Wm. Bushnell, of Easton, Pa., for an Im-

provement in Cultivators:

I claim the arrangement of the central beam, A, movable bare, B
B, pivoted connecting bars, C C, adjustable chain wheel, D, chain,
E, and plows, b, asand for the purpose shown and described.

The object of this invention is to obtain an implement of exceedingly sir. file construction that will admit of a ready lateral adjust-ment of its shares, so that the implement as it is drawn along may operate on an area of ground of greater or less width as circumstances may require.)

27,615.-M. L. Byrn, of New York City, for an Im-

proved Corkserew:
I claim the combined imlet screw and handle formed in the man
ter and for the purposed described, as a new article of manufacture.

[The object of this invention is to manufacture corkerews posessing greater strength and durability, and which may be made and sol at a less cost than those of the present construction. This invention consists in combining with the gimlet serses a T-handle, and forming the handle and serves in one or in two pieces.]

27,616.—Cullen Casey, of Goldsboro', N. C., for an Improvement in Cotton Cultivators:

I claim the arrangement of the beam, A, scrapers, B, groove, B', and bolt, G, with stock, A', the whole constructed and operating as described for the purposes set forth.

27,617.-G. E. Chenoweth, of Baltimore, Md., for an

Improvement in Harvesters:

I claim, first, The laterally adjustable arm, G, pivoted to the frame, as described, for the purpose of changing the position of the inner end of the finger bar laterally in relation to the main frame, to facilitate the folding of the bar to the outside of the wheel, as set forth.

Second, The combination of the trunnion piece, II, and hinge-piece, I, with the arm, G, pivoted as specified, for the purpose described.

scribed.
Third, The adjustable side braces, J, hinged to the frame, and operating substantially in the manner described.
Fourth, Thefinger-bar constructed of a tube or rod, in combination with the shanks or sockets of the fingers secured thereon, substantially in the manner described.

27,618.—Geo. Collyer and A. Hamilton Patterson,

Philadelphia, Pa., for an Improved Paddle Wheel:
We claim the sliding paddles, D, shaped and arranged so thateach
paddle enters the water with a point, and as it enters presents a surface which gradually widens until the full breadth of the paddle is
presented to the water, in combination with an eecentric track, recurred to the side of the types of the types of the water, where is the side of the space occupied by
the wheel, as and for the purpose shown and described.

27.619.—Baldwin Davis and J. M. Scroggins, of La-

grange, Ga., for an Improvement in Plows:
We claim the combination of the beam, I., plate, F., shank, C, to thes, D, and wedge, E, with the adjustable brace, G, subsoil point, and adjustable moldboard, J, the whole being constructed and aranged as and for the purpose described.

27,620.—James Davis, of Fayetteville, N. C., for an Improved Sewing Machine Stitch:
I claim the formation of the knot etitch, as represented in Fig. 3, substantially as described.

27,621.-Wm. Frank Dean, of Baltimore, Md., for an

Improvement in Saddles: laim the side adjustable pummel, B, or its equivalent, in combi-no with a gentleman's saddle, for the purpose of converting the into a ladies' saddle, substantially as set forth.

27,622.—J. H. Doolittle, of Ansonia, Conn., for an Improved Pipe Wrench:
I claim the combination of the rack, C, on the shank, A, the sliding bar or sleeve, D, fitted on the shank with tooth, b, and hook, E, attached, the latter having an eccentric, d, formed on its inner end, all being arranged to operate as and for the purpose set forth.

[The object of this invention is to obtains wrench that may be ad justed with the greatest facility to suit different sized pipes graspthe same firmly, so that they may be turned or properly upon without being liable to slip on the pipe. The invention con in the employment of a sliding box or sleeve placed on the shank of the implement, and provided with a tooth, in connection with a rack formed at one edge of the shank, and an eccentric formed at the end of a hook which is attached to the sliding box or sleeve.]

27,623.-Joseph L. Dutton, Senr., of Philadelphia, Pa., for an Improvement in Hoisting and Weighing

Machines:
I claim, first, The hoisting and lowering apparatus composed of the barret, D, the brake wheel, H, and brake strap, I, the latter being connected to one end of the hoisting rope, F, and to the lever, M. or its equivalent, in combination with the ratchet wheel, W, and spring pawl, x; the whole being arranged and operating substantially as set forth, so that the application of the brake for the retention of the weight in the position to which it has been hoisted is independent of the weight itself, as specified.
Second, The bar, F, when connected to the holsting rope, F, and to the graduated lever, V, subs intially in the manner and for the purposes set forth.

to the graduated lever, V, subs nitially in the manner and for the purposes set forth.

Third, The sliding link, Q, operated by the lever, S, or its equivalent, and combined with the lever, P, boisting rope, F, and brake strap, I, substantially as specified, so that the operating of the brake strap and throwing in and out of gear of the weighing apparatus may be accomplished simultaneously by raising or lowering the said link, Q, as specified.

27,624.—Deiderich Fehrman, of Liverpool, England,

for an Improvement in the Manufacture of Resin: I claim the combined process described, having for its object the manufacture of resin, as set forth. 27,625 .- Levi Ferguson, of Lowell, Mass., for an Im-

proved Steam Trap:
I claim the arrangement of the annular chamber, H h, in combination with the valve and diaphragm, substantially as described, for the unipose set forth.

27,626.-Ezekiel Gross, of Goshen Hill, S. C., for an

Improvement in Sub-soil Plows:
I claim, in combination with the furrow plow and sub-soiler, the urved brace uniting the beam, the standards and the handles togeher, and when the sub-soiler is made adjustable on the brace and em. substantially in the manner and for the purpose set forth and

27,627.-Cyrus M. Hall and David E. Hall, of Union

town, Ill., for an Improvement in Cultivators:

We claim the general arrangement and combination of the revolving coulter with knife-edged arms; the shovels, A, made with flukes or barbs, the beams, B, B, the cross bar, X, etraps, S, rollers, r, r, treadles, P, and the pin or pivot on which the beam, B, hangs; all connected as described and for the purpose set forth.

27,628 .-- R. K. Hawley, of Baltimore, Md., for an Improved Construction of Circular Saws:

l claim a circular saw consisting of segments and backing plates constructed and united at described, and attached to the central flange substantially in the t. unner set forth.

and attached to the central flange substantially in the t. uner set forth.

27,629.—Henry W. Herbert, of Herbertsville, Va., for an Improvement in Marine Propellers:

1 claim, first, Adapting the outer form of the submerged portion of a vessel and the surface of the body of a propeller to each other, so that both together shall form a continuous outline, and, at the same time only a portion of the propeller be exposed to the water, the other portion be ing enclosed within the body of the vessel, substantially as and for the purposes set forth.

Second, Providing each side of the ship with a curved shield, II, in combination with a system of braces, E. E. D. C, for the purpose of protecting fife propeller blades and of bracing together the main body of the ship and that portion of it which is behind the propeller, substantially as and for the purposes set forth.

Third, The application, in a propeller such as described, of the removable blades, J, the tongues, O, of the blades fitting into dovetall grooves in the surface of the body of the propeller, substantially as and for the purposes set forth.

Fourth, Constructing the main side braces, P, of the ship so that they may be used as coal bunkers, substantially as and for the purposes set forth.

[This invention consists in arranging a rotary propeler in the bull

(This Invention consists in arranging a rotary prope ler in the hull of the ship. The ship and propeller are so modeled that the circular or submerged portion of the ship and that of the propeller conform; and when the blades of the propeller are removed the hull with the propeller ap ears one unbroken structure. The propeller sets across the keel, and the ship is strongly braced at the points where it is cut away to admit the propeller. The main braces are made hollow so as away to admit the propeller. The main braces are made hollow so as to serve as coal bunkers. The arrangement exhibits a great deal of ingenuity, and is, doubtless, a valuable improvement.]

27,630.—Jesse Hanon, Jr., of Taylorsville, Ill., for an Improvement in Drain Plows:

I claim the combination and arrangement of the rod, E, coulter, C, and slides, G G', with the beam, A, and rod, B, substantially as and for the purpose specified.

27,631.—N. Hoag and Wm. H. Tappey, of Petersburgh, Va., for an Improvement in Tobacco Screws:

We claim the arrangement of the several parts combined as constituting the specific machine, for the purpose shown and set forth.

27,632.—Samuel Hoake, of Frederick, Md., for an Improvement in Cultivators. Ante-dated March 9, 1860:

I claim, first, The combination of the jointed shovel shaft, B, slotted shovels, T T', drag bars, D and d, shafts, S, straps, b, spring detent, e, and guides, g, substantially as described.

Second, In combination with the foregoing I claim the adjustment of wheels, W, on axle, A, by bolt, a, and pins, i, as specified.

27,633.—J. L. Hovey, of Lockport, N. Y., for an Improvement in Pulley Blocks:

I claim the peculiar method of having blocks, A.D., both being suspended from one hook and kept in an upright position by a projection, H. of the collateral block, the solvating the friction occasioned by the pulleys getting twisted out of an upright position, as above described.

[This invention consists in projecting up from the top of a fixed double pulley block, a hook having an eye in its end, into which is hooked a collateral block with one pulley and sheave, and over this sheave the draw or fall rope is passed, leading from the movable block, the fixed pulley blocks are hung up by a swivel hook which hooks under the fixed block hook; and in conjunction with these fixed blocks is a projecting lip and recess formed, which keeps the fixed blocks in a perpendicular position and the ropes always parallel. The blocks themselves are novel in their form and construction which renders them very strong, and gives great facility in their manufac-

27,634.—George W. Hunt, of Muscatine, Iowa, for an

Improvement in Plows:

I claim, first, The arrangement of a vertical coupling and adjusting pin, I, which has that portion which passes through the beam round, and that portion which passes through the axle square, in combination with a disconal adjusting bar, I, a connecting rod, N, and a vertical lever, O, substantially as and an of the purpose set

and a vertical lever, O, substantially as and for the purpose set forth.

Second, The arrangement of a long slot, W, in the axle, with an upper and under slotted sliding plate, L L', and the coupling and adjusting him. I, substantially as and for the purposes set forth.

Third, The arrangement of the beam, A, slotted axle, D, coupling pin, I, slotted plate, L L', diagonal connecting rod, V, ad unsting bar, P, lever, O, driver's seat, C, treadle, M, plow, F, borizontal rotary land side wheel, G, and rotary coulter, H, in the manner and for the purposes set forth.

27,635.-A. B. Hutchins, of Quincy, Fla., for an Im-

27,635.—A. B. Hurchins, or Quintry, rea., 102.

Provement in Seeding Machines:

I claim the vibrating hopper, G. in connection with the relearer, H', a tracked to the front part of the spout, H, and within the hopper and clearer, being arranged relatively spout, H, substantially as and for the purpose set forth.

[This invention, although capable of being used for planting vations kinds of seeds, is more especially designed for planting cotton leed. The object of the invention is to insure the proper discharge or distribution of the seed from the hopper, and thereby obviate the difficulty attending the adhesion or the eticking of the seed together, a result due in some cases to moisture and a glutinous exterior caused by giving the seed a fertilizing coat, and in other cases to natural causes, as, for instance, the lint coating on cotton seed.]

27,636.-Edwin Jones, of Chester Cross Roads, Ohio,

for an Improvement in Harvesters:

I claim hinging the frame, E, to the inside of the main frame, within the periphery of the wheer, B', in combination with hinging the front to the main frame, by the coupling arm, M, substantially as and for the purposes set forth.

Second, The raker's seat, D', arranged in relation to and combined with the main frame, A A, and frame, E, substantially as and for the purposes set forth.

Third, The inclined plane, i, in combination with the heel of the cutterbar, substantially as set forth.

27,637.—Frank G. Johnson. of Bellwood, Sag Harbor, N. Y., for an Improved Composition to Prevent the Depredations of Insects:

I claim the composition and mode of attenuating coal tar or tar, with sand or sawdust, and afterwards the coating of the sand or saw dust so tarred with earth, ashee, slaked or ground lime, plaster or guano, substantially in the manner and for the purposes described.

27.638. -Samuel Johnston, of West Shelby, N. Y., for

an Improvement in Corn-huskers:
I claim the corn-husker herein described, consisting of fingers, A
B, crossbar, E, knife, D, and spring, S, constructed and arranged to
operate in the manner and for the purposes specified.

27,639.—Albertus Larrowe, of Cohocton, N. Y., for an Improvement in Self-adjusting Carringe Brakes: I claim the combination and relative arrangement of the rubber, Z, and swinging brake arm, C. with the end of the brake bar, V, whereby the strain upon the rubber, Z, is borne grincipally by the ricidend of the brake bar, directly in front of the periphery of the wheel, and not by the hinge of the rubber, substantially as shown and described.

27,640.-John B. Logan, of Blountville, Tenn., for an

Improved Andiron:
I claim the arrangement of the bottom frame, A, or its equivalen n combination with the angular bars, B, or their equivalents, contracted and united substantially as and for the purpose described.

[The object of this invention is to construct an andiron in such a manner that it stands firmly in its place even without the back log on, and that it allows a free circulation of the heat, and that it does not interfere with the removal of ashes or dust.]

27,641.-F. T. Lomont and John Grosjean, of Massillon, Ohio, for an Improvement in Resping and Mowing Machines:

We claim the arrangement of the hinged frame, consisting of the braces, B B, and crosspiece, e, in combination with the segmental adjustable frame, C, levers, D and J, and chain, a; all the parts constructed and applied in the manner and for the purpose specified.

27,642.—Pells Manny, of Waddam's Grove, Ill., for an Improvement in Harvesters:
I claim the arrangement of the wrist pin, a, rod, D, alotted as shown, and connected with the lever, E, the friction roller or bearing, b, and connecting rod, G, arranged for joint operation as and for the purpose set forth.

27,643.—Robert McCain, of Rootstown, Ohio, for an Improved Washing Machine:

I claim, in a washing machine constructed substantially as described, the arrangement of levers and hand and footbars of the pounding and of the rubbing parts of the machine, in their relation to the rubber and the pounder, and in their relation to each other, whereby the operator may move the pounder and the rubber by the foot and hands together, or by the hands alone, as set forth.

27,644.—Thomas B. McConaughey, of Newark, Del., for an Improvement in Seed Planters:

I claim the slide, f, provided with the opening, f, and the seed box, A, with the partition, i, arranged relatively with the slide and tits opening, g, as shown, in connection with the opening, d, in the end piece, a, of the seed box, and the projection or scatterer, c, thereon, and the strip, m, on the seed box; all arranged for joint operation, substantially as set forth.

[The object of this invention is to obtain a simple device for drop ping corn or other seeds in hills; the device being derigned for man ual operation, and to enable the operator to see the seed discharged and also to cause the same to be properly distributed in the hills.]

27,645.—Samuel McGregor, of Logansport, Ind., for an Improvement in Car Seats:

I claim the backs, B B, attached to the seat, A, and connected by the searing, E F, in connection with the stop, N, arms or levers, H, rods, I, and sides, J, connected to the bars, D, of the backs and provided with the rolers, K K', the seat and backs being provided with the continuous cushion, L, passing around the rollers, K K', with its ends attached to the backs, B; all being arranged substantially as and for the purpose set forth.

27,646.—Henry Napier, of Brooklyn, N. Y., for an Improvement in the Manufacture of Resin:

I cla m the within-described method of producing white resin at one continuous operation, substantially as set forth.

27,647.—A. S. Notestein (assignor to himself and L. I. Rogers), of Salem, Ohio, for an Improvement in Seeding Machines:

I claim the arrangement of the foot piece, a, the rocking standard, d, the lever. E, and the seed slide, F, with the rollers, B and C, and coverers, If H, when the several parts are connected and used substantially as and for the purpose specified.

27,648.—Jacob Nuessley, of Gowanda, N. Y., for an Improvement in Composition for Tanning Leather: I claim the employment, for the purpose of tanning, of a composition consisting of the Ingredients herein specified, and mixed together in about the proportions described.

[Tue object of this invention is to enable tanners to use all kinds of wood for the purpose of tanning, and at the same timethe leather is tanned much quicker than by the usual process, and by the use of this composition the disadvantages usually attending quick-tanned leather are entirely obviated.1

27,649.—E. T. Orne, of Boston, Mass., for an Improvement in Gas Regulators:
I claim the employment of sawdust or wood filings as a filtering medium forgas burners.
I also claim, in combination with the use of said material, the above-described burner, consisting essentially of the cylinder, A, and ring, f, operating substantially as set forth.

27,650.—E. H. Philo, of Half Moon, N. Y., assignor to Charles E. Pease, of Albany, N. Y., for an Improvement in Cider Mills:

I claim, first, The cylinder, C. operating with a liberating movement in connection with quad; ants, F. and G, and with its teeth arranged to co-operate with teeth, a a, affixed to partitions, H and J, substantially as described and for the purpose set forth.

Second, The slicing apparatus, S, operating as set forth, in combination with the cylinder, C, and its co-operative apparatus as described, in the above specification:

27,651.—William R. Sanders, of Buena Vista, Miss., for an Improvement in Plows.

I claim the combination and arrangement of the shares, F. F. couters, G. G., and movable meld boards, H. H., with beam, A., handles, B. R., Yosé, E., and oblique brace, K; the whole being constructed for operation as described.

27,652.—J. F. Schuffenecker, of Keokuk, Iowa, for an Improvement in Brick Molds:

I claim operating the bottoms of the molds by means of the lever, D, rod, F, wedges, J J o, cogs, I I o, slide, K, and lock bar, O, in the manner and for the burpose specified.

27,653.—Robert T. Smart, I. W. Smart and A. I. Smart, of Troy, N. Y., for an Improvement in the Manufacture of Straw Paper:

We claim the method specified of treating straw or similar vegetable fiber for making white paper by the successive operations of boiling, washing and separating or beating, and then applying the chemicals used for bleaching to the pulp, substantially as set forth.

27,654.—Geo. Smith. of Baltimore, Ohio, for an Improvement in Cultivators:

I claim the arrangement of the hinged teeth, F, shanks, G, ropes or chains, I, roller, J, and lever, K; the whole being arranged for joint operation as described for the purposes set forth.

27.655.—S. F. Van Choate, of Yreka, Cal., for an Im-

27,655.—S. F. Van Choate, of Yreka, Cal., for an Improved Magnetic Printing Telegraph:

I claim, first, The employment, in combination with the escapement which controls the operation of the mechanism which drives the type wheel, of the two electro-magnets, E. arranged in the samcircuit, a permanent magnet, G. combined with one of such electromagnets, as described, and two armatures, E. F., attached to a lever so applied, relatively to the said magnets and escapement, as to be operated substantially as described, to control the escapement by the opening and closing of the main or through current of a line of telegraph.

opening and closing of the main or through current of a line of telegraph.

Second, I claim the employment, in combination with the electromagnet, W. of the printing circuit and the permanent magnet, V.
that is combined therewith, of a circuit-breakercomposed of a ratchet
toothed wheel, 42, and lever, 41, or their equivalents, applied and operating substantially as described, to cause the opening of the printing
circuit while the type wheel is in motion, and the closing of the said
circuit on the stoppage of the type wheel, substantially as described.
Third, I claim combining the lever which carries the armature of
the printing magnet with the printing mechanism by means of a
notched wheel, X, sliding bolt, 52, cam, 56, and spring, 50, attached
to said wheel, and a stop pawl, 50, or their equivalents; the whole applied and operating substantially as described, to cause the unlocking
of the mochanism which brings the printing roller into operation on
the stoppage of the type wheel, and the relocking of the said mechanism after the printing operation.
Fourth, I claim the employment, in combination with each other,
and with three separate branches of the same main circuit, of a key,
O, an intermitting wheel, J, a ckeckplate, K, and a system of magnets, E: F G; the whole operating to overher substantially as described,
far 1r aducing the synchron and operation of all the type wheels on a line
of telegraph, and effecting the stoppage thereof in a position to present to their respective printing apparatus the letter corresponding
with the depressed key.
Fifth, In combination, with the key, intermitting wheel, check
plate and system of magnets, and the three separate branches of a
main circuit, as described, I claim the printing circuit, formed by the
colled wire, 14, or its equivalent; the whole operatings as and kay the
purpose specified.

This invention consists in certain improvements in magnetic tele-

[This invention consists in certain improvements in magnetic tele-

graph instruments, which improvements reduce very materially the unt of magnetic force necessary to effect the operation of the innerts, and enable them to be worked effectively with a batte of no great power, and without the use of relays or local batteries Engravings would be necessary to explain theinvention clearly.]

27,656.-Wm. Tallman, of Providence, R. I., for an

Inprovement in Horse-shoe Nail Machines:
I claim the top die, performing the two functions of discharging the nail and forming the top of the case, in combination with the stationary cutter, movable cutter and bottom die; the said bottom die having its face extended to a suitable distance and in proper form for the underside of the case, all arranged and operated substantially as described.

27,657.- James Teachout, of Waterford, N. Y., for an

Improved Die Stock:

I claim the combination of the screw, e, and followers, f g g', with the dies, c cl c2, and stock, D, constructed and arranged substantially as set forth.

as set forth.

27,658.— Samuel D. Tillman, of New York City, for an Improved Mode of Making Pavements:
I claim a pavement whose surface is composed of alternate elevations and depressions substantially equal in number and surface, and nearly rectangular; the depressions being only long enough easily to admit either cork of the horse-shee, all their sides nearly vertical and the longest sides nearly crosswise of the street, thus giving sure footbold at the shortest possible intervals, while the wheel runs smoothly upon the elevations without falling into the depressions, as described.

27,659.-Mark Snow, of Auburn, Miss., for an Im-

provement in Cotton Cultivators:

I claim the combination of the scraping mold boards, d, hilling molds, e, and fenders, g, when arranged and operating substantially as described.

27,660.—C. W. Wailey, of Lexington, Ky., for an Improvement in Iron Ties for Cotton Bales.
I claim the lugs, a, in combination with the spaces, b, formed at the edges of the loop, and extending any required distance from the ends, so as to unite and form a tie, substantially as set forth.

27,661.—Edward Weakley, of Pana, Ill., for an Improvement in Seeding Machines:

I claim the swinging frame, G, provided with the seed-distributing devices, expanding and vertically-moving bars, k, and shares, h'; and attached to the mounted frame, A, by joints or hinges, h, at its front end, and by the chains or cords, r s, and bar, F, at its back; all being arranged as and for the purposes specified.

[This invention consists in the use of seed-distributing devices and share frames attached to a mounted frame, whereby seed may be planted in bills of arills, and the ground also pullerized and freed planted in bills of arills, and the ground also pullerized and freed

planted in hills or drills and the ground also pulverized and freed from weeds; the machine being used for either purpose, separately, as may be desired.]

27,662.—R. A. Wilder, of Schuylkill Haven, Pa., for an Improvement in Feed-water Apparatus for Loco-

I claim the arrangement, substantially as shown and described, in connection with the feed and overflow pipes and pump of a two-way cock, so that while a constant circulation of water is maintained in said pipes, only such portion thereof as may be desired shall enter the boiler; all asset forth.

27,663.—Seth D. Woodbury, of Lynn, Mass., for an Improved Reclining Chair:
I claim the combination and arrangement of the arms, D and G, seat, B, slat, e, connecting rod, F, set screw, f, supporting arms, J, and leg reat, K, with the folding legs, AA, and jointed strips, H and I, substantially as set forth and for the objects specified.

27,664.—Joseph D. Billings, of Rutland, Vt., assignor to himself and E. A. Chapin, of Keene, N. H., for

to himself and E. A. Chapin, of Keene, N. H., for an Improved Speed Register:
Iclaim, first, The arrangement of the circular rack, D, actuated by any suitable governor, pinton, d, stem, e, and index heads, fg; the latter baving a pin, h, projecting from it, by which it is moved over the surface of the dial plate, when the same are combined in the manner and operated as set forth.

Second, I claim, in combination with the striker, k, on the rack, D, the levers, 1 2 3 4 and pawls, I, ratchet wheels, 1 2 3 4 (more or less, as may be desired), with their nins, U, roda, H, with their arms; the whole arranged and combined essentially as represented and described.

whole arranged and communes seribed.

Third, I claim the wheel, N, with its lever and pawl receiving a direct motion from the spindle, A, arranged in such a relation to the point or needle, S", that said needle will register every mile passed over by the train of care, as described, and in combination therewith, I claim the spring 10d, M, pawl, R, ratchet wheel, R', and spool, L', for moving the strip of paper upon which the speed and miles are registered at each revolution of the wheel, N; all arranged in the manner and for the purposes set forth.

The investment of the purpose set forth. [The invention consists in the use of a ball governor, of a peculiar

construction, which is operated by the axle of the truck wheels through the medium of a vertical shaft, so as to rotate a circular rack to which is connected, by suitable gearing, index heads for registering the number of revolutions the governor is performing rather, the rate of speed at which the train is traveling. Connected with the circular rack, and raising and lowering with it as the centrifugal action of the governor balls increases or diminishes, is a cam projection or striker, which actuates a certain arrangement of levers, and from these a rotary motion is imparted to a system of ratchel wheels, which, through the medium of spring points, arranged in a suitable manner, indicate upon a slip of paper, by perforations, the rate of speed attained in each mile throughout the entire route. A striker upon the governor shaft, fixed to and turning with it, also incates the miles traveled by means of a lever and ratchet wheel, similar to those for registering the speed of the train during any given distance. The entire mechanism, excepting the governor shaft connecting with the axle of the car wheels, is enclosed in a tight box, with a glass face, so that the superintendent of the road can, at any time, know the rate of speed the train has traveled, either for any one mile in the route or for any number of miles. The engineer or ctor may also know at any time, by this machine, how

27,665.-Philo Blake (assignor to Blake Brothers), of New Haven, Coun., for an Improved Corkscrew:
I claim my improved cork extractor, as made with a lever head
affixed to its lifting screw, C, and with a lever screw nut, E, appl
to such screw, C, and to the cap of the need stand, substantially
described and represented in the accompanying drawings.

27,666.-Thos. B. De Forest, of New York City, as-

27,666.—Thos. B. De Forest, of New York City, assignor to himself and Wallace & Sons, of Ansonia, Conn., for an Improvement in Lanterns:

I claim connecting the ends of the vertical guard wires to the top and bottom portions of the lantern by bending them into such form as to interlock with said top and bottom parts, and be secured thereto by encircling or keying bands, or their equivalents, substantially in the manner set forth.

I also claim so bending the vertical guard wires as to form in them cyes, as described, in combination with the encircling horizontal guard wire passing through the said eyes; the whole constructed and operating substantially as specified for the purposes set forth.

I also claim arranging the encircling guard wire, p, in such manner

a stobe capable of sliding circumferentially in its bearings in the vertical guards, in combination with the coupling nut, c', so connected with said guard, p, that, by turning it, the said guard wire may be distended or contracted, substantially as set forth for the purposes de-

I also claim, in combination with the top cap of the lantern and handle, the connecting link, o, so formed of a single piece of wire as to effectually connect or couple the lantern cap to the handle, and properly support the protector without the aid of any coupling pin or other auxiliary part, as hereinbefore explained.

I also claim forming in the handle, when made of flat metal, a loop, a, to operate in connection with the upper end of the link, o, as specified, for the purpose set forth.

 27,667. Robert W. Geraghty (assignor to himself and Wm. M. Simpson), of Newark, N. J., for an Improved Ventilating Spring Mattress:
 I claim the combination and arrangement of the frame, A, with the I claim the combination and arrangement of the frame, A, with the springs, b, and cords, c and d, sack, E, hair, K, and outer cover, m, substantially as and for the purposes specified.

27,668.—Henry Hewett, of San Francisco, Cal., assignor to W. A. Sanford, of Pottsdam, N. Y., for

an Improvement in Seeding Harrows:
claim the arrangement of the axle, A, bars, h, shaft, g, cylin, i, bearing, i, arm, k, holes, l l, wheels, B B, pendants, d d, e, C, caster wheel, D, seed boxes, E E, and slide, F, as and for purpose shown and described.

If The object of this invention is to obtain a rotary harrow which hay be used alone or with a seeding machine, and be adapted for operating a greater or less dept into the earth, as the nature of the operating a greater of less dept into the earth may require; and also be adapted foroperating as efficiently in hard clayey soils as in loose friable ones.]

7,669.—James Hotchkiss (assignor to himself and E. P. H. Capron), of Yellow Springs, Ohio, for an Improvement in Drain Tile Machines:

I claim the combination and arrangement of the spiral wings, h, h, ituated on the pug mill shaft, the wedge-shaped dividing step block, and inclined or obliquely situated die plates, DD, constructed as escribed substantially in the manner and for the purposes specified.

27,670.— Jacob F. Hunter (assignor to himself, H. A. Hunter and P. P. Keller), of New York City, for an Improvement in Hot Water Apparatus:

I claim the combination of the coils, F. G, with the main pipe, J, fire back, A, return pipe, J, and casing, K, when the said coils are both connected with the main pipe, J, and back, A, and otherwise constructed as shown and described, for the purpose set forth.

[The nature of this invention consists in a novel arrangement of pipes with a water back; said pipes communicating with the radiators in the building from the top of the apparatus, and said radiators

tors in the building from the top of the apparatus, and said radiators communicating with the water back by a return pipe, by which arrangement a large heating surface is obtained; with an economy of room, expense, and a proportionate saving in fuel]

rangement a large neating surface is obtained; with an economy of room, expense, and a proportionate saving in fuel]

27,671.—Charles Miller (assignor to himself and George Ricardo), of New York City, for an Improvement in Machinery for Manufacture of Piled Fabrics.

I claim, first, The employment, in the manufacture of piled fabrics, of a series of needles, a a, for priesing the pile threads through a previously woven foundation in rows of loops, and of a single needle, N, operating transversely to the said series of needles, for the purpose of carrying a continuous filling or locking thread through the successive rows of loops of the pile threads, substantially as specified. Second, The employment, in combination with the series of pile thread needles, a a, and the filling or locking thread needle, of a tongue, u, applied and operating substantially as described, to eatch and prevent the withdrawal of the filling or locking thread. Third, The attachment of the sippers, 9, which draw her constrained the pile to the same sider, Q, or its quivalent, which carries the locking or filling thread needle, N, so that the same mechanism serves to operate the said nippers and the needle, substantially as described.

Fourth, The combination of the nippers, 11, and the stop, 12, with the nippers, 9, the whole operating together substantially as and for the purpose set forth.

Fifth, The combination with the two pairs of nippers, 9 and 11, of the stop, 12, the inclined plane, 13, the recess, 14, and the purbose specified.

Sixth, Feeding the foundation, 1, to the needles, and carrying away the finished piled fabric from the needles by means of a plate, K. or

specified.

Sixth, Feeding the foundation, i, to the needles, and carrying at the finished piled fabric from the needles by means of a plate, K its equivalent, pushing against the rods, 7 7, substantially as scribed.

-C. L. Nelson and Oscar Bostwick (assignors to themselves and N. B. Proctor), of Burlington, Vt., for an Improvement in Wood-bending Machines:

We claim the adjustable guide, marked C in the drawing, and justable roller, B.

27,673 —Robert Ross (assignor to himself and Geo. J. Stannard), of St. Albans, Vt., for an Improved Horizontal Water Wheel: laim the arrangement, in a center-vent water wheel, of the plates, fitted respectively into the scroll and to the wheel, as described, connected to the frame, G, to operate as and for the purpose set

and connected to the manner, on the forth.

I also claim, in connection with the above, the projection, h, at the end of the plate, D. when fitted in the socket, i, to leave a space, j, between the projection and the back part of the socket, for the purpose specified.

[The object of this invention is to obtain a center-vent water wheel that may have its capacity readily varied according to the power required, and a uniform speed obtained with a varying power as occasion may require. An engraving and description of this wheel was published on page 136 of the present volume of the SCIENTIFIC

27,674.—H. D. Walcott (assignor to H. Williams), of Boston, Mass., for an Improvement in Eyelet Machines:

I claim the nippers, A B, having their jaws, b c, provided with both a punch or cutter and a closing or setting die, substantially as described.

Second, I claim the adjustable piece, g, operating substantially as specified.

RE-ISSUES.

Mary Jane Osborn, of Louisville, Ky., administratrix of William Osborn, deceased, late of said Louisville, for an Improvement in Machines for Pressing Bonnets, Bonnet Frames, &c. Patented Aug. 19, 1856; re-issued Feb. 17, 1857:

I claim, first, Pressing the whole of a bonnet frame or similar article at one operation by dies, substantially as specified, whether formed of one or of several pieces and irrespective of the particular size or slape.

shape. I also claim forming the side crown and fianing face-piece of a bon-net frame in one piece or at one operation, as specified.

James W. Reed, of West Roxbury, Mass., assi through mesne assignments of Walter Bryent assignee Boston, Mass., for an Improved Air-heating Furnace. Patented Oct. 24, 1854:

I claim the improved furnace constructed with its dome, F. closed top and made to open into the radiator only, through a series of

nns, extending upward into the same, and with a radiator baving oftom plate to coverthe entire dome, F, in manuer substantially

as described.

I also claim the improvement in the construction of the radia arranged over the done of the fire-pot, the same consisting in mak its bottom a concave-convex plate or arch, and with the concaves disposed downwards and directly over said dome, whereby asceuding heat from the top of the dome is retained in the concave of said bottom, and not only made to warm, to great advantage, air that rushes into the same, but to heat the radiator, so as to prove the draft through the fire-pot and supporting columns of ra lator.

Pells Manny, of Waddam's Grove, Ill., for an Improvement in Hurvesters. Patented April 7, 1857:
I chaim, first, In a n automat craking device, the combination of the bar, f. standing at an angle with the wing, C, the bar, S, and the rake, A, arranged in relation to the taper space, R, in the manner and for the purpose substantially as specified.

Second, The combination of the bar, S, and the rake, A, soarranged and operating that the rake, which at first moves longitudinally with the straw, shall a fterwards change its relation thereto and compress it laterally against the bar, S, so as to hold it firmly in place until it is deposited at the opening, R, in a compact gavel, lying nearly parallel with the direction in which the machine moves, substantially as set forth.

set forth. Third, The combination of the classic metal cap or sheath, c, conciting the divider, b, with the main wing C, with the reversed hook bent projecting end, d, of an automatic rake, when said parts are naturated and arranged for joint operation essentially in the manral of the purposes set forth.

J. Milton Sanders, of Cincinnati, Ohio, for an Improvement in the Production of Illuminating Gas.

ment in the Production of Illuminating Gas. Pat-ented July 27, 1858: claim the production of an illuminating gas by passing the vapor water and a hydro-carbon, or its equivalent, mixed previously to composition into a retort containing carbon at a high red heat, sub-ntially in the manner set forth.

Selah Dustin, of Detroit, Mich., for an Improved Low Water Alarm for Steam Boilers. Patented April

Water Alarm for Steam Boilers. Patented April 26, 1859:
Iclaim, first, So combining a steam valve and chamber with a hall or float as that the pressure of the steam in the boiler, in conjunction with the weight of the ball or float, will, when the water falls so low in the boiler that the upward force of the float does not sustain said valve, open said valve and make a free escape of the steam, substantally as described.

Second, I claim, in combination with a valve that is opened by the pressure of the steam and the aid of the ball or float, another valve, of lesser area, that closes one end of the steam cylinder so long as the water in the boiler remains at the proper height therein and the pressure of the steam does not exceed a certain amount, substantially as described.

Third, I claim, in combination with a valve opened by the pressure

pressure of the steam does not exceed a certain amount tially as described.

Third, I caim, in combination with a valve opened by the pressure of the steam and by the aid of the ball or float, and which are not realisted by a weight of veighted lever, a steam whistle, bell, or other means of giving an alarm by the escape of the steam, substantially as described.

described.

Tour'h, I claim the combination of the float and the differential lyc with the steam chamber, for the purpose of opening said valves, interesting the float deeper in the water to sound an alarm when re existed an excessive pressure of steam in the boiler, substanly as described.

ADDITIONAL IMPROVEMENT.

Joseph F. Pond, of Cleveland, Ohio, for an Improved Washing Machine. Patented Oct. 26, 1858:

I claim the brake bar with double-ridged upper surface, as deseribed, in combination with hollowed bearings, a b, and annular slotted bearing pieces, C, lever and rod, arranged and operating with the roller, A, and apron, D, as set forth.

Nova ... More than one-time of all the patents granted last week, as reported above, were secured through the Scientific American Patent Agency-MUNN & CO., No. 37 Park-row, this city.



- G. R., Jr., of Pa.-We belive that it would be a great rovement in the manufacture of glue to employ steam heat in dof direct fire under the boilers. With steam you can regulate the heat properly, and you will never singe anyof the skins With steam heat, you could also use wooden tanks in place of metal bollers. You can run the steam-pipes back and forth in the bottom of the boiler, but you must use an open joint so as to take them out when desired.
- R. C., of Texas.-You are mistaken in stating that Haswell gives the strength of boiler iron at from 30,000 to 25,000 lbs. on the squarelach. He says: "The tensile strength of boiler iron 1s 50,000 to 60,000 lbs. per square inch of section; but at a temperature of 550°, it is reduced to 22,508 lbs." Any good Amerlean boiler iron will stand 42,000 lbs., but we do not believe you can get a boiler made of iron that will stand a pressure of 250 lbs. of air on the inch without leaking. For such a pressure, we advise boiler iron of no less than % of an inch thick. We have no doubt of electrical currents being generated in the earth by under cur rents of water, because electricityls developed more or less in every
- J. S., of Pa.—Your hydrostatic paradox is quite a near puzzle; but as your vertical columns of mercury, are in fact qual, there is in reality, no paradoπ in it.
- O. S., of Vt. We think you will find in Mr. Sprague's second article on "The Obst uction to the Navigation of Rivers caused by the Plers of Bridges," a full discussion of the points
- L. B., of Mass.—A gang of steam boilers, unless they have independent steam connecting pipes to equalize the presure cannot besafe. One pump is perfectly able to feed all the beliers if it is of sufficient capacity. Each boller should have a separate feed-pipe branching from the main pipe of the force pump. The middle boilers generally generate steam fastest, and require a little more seed than the side ones. A feed pump should be able to sup-ply about four times the amount of evaporation. The size of the Red-pump pipe for high pressure engines is obtained by multiplying the diameter of the cylinder in inches by 141. The resultant is the diameter of the feed-pipe in inches.
- Towers, of Pa.—An immense amount of labor has been expended by astronomers in searching for small satellites re-volving about the earth, and it is thought that one at less than been discovered. It is supposed to be about haif a m lein diameter and 5,000 miles distant, if we remember rightly.

- S. R. H.—Your suggestion of a balloon to carry a line ashore from a vessel wrecked on a lee coast has been made before It a ns to us a most excellent plan.
- J. M. R., of Ohio. For a popular treatise on natural philosophy, Wells' is as good as any; but if you want a profound and thorough discussion of the principles of the science, we know of nothing superior to Newton's Principle.
- W. B., of N. Y.—Your illustration of a perpetual motion that would not run is ingenious, but our artists are now so busy that we must forego the pleasure of having it engraved.
- J. B., of Del.-A body shot into the air will fall with the same velocity as it rises, less, of course, the resistance of the air. When we copied the paragraph of which you spoke from a London paper, we thought of introducing the qualification, but as it is small with a lead or iron bullet, we let it go.
- W. H., of Ill.—The crystals which you send us are quartz. There are time of them scattered through all granite regions. They are valueless.
- J. B., of N. C.—If a 25-horse power engine is sufficient to drive certain machinery, a 50-horse power engine attached to the same machinery would ordinarily require more wood; this, however, would depend on the circumstances of the case.
- B. M. J., of Ark.-Your recommendation of a wash for young trees, composed of equal parts of tar, soft soapand hog'slard,
- we here present to our readers.

 W. B. G., of N. Y.—Your communication on the model of ships is received. We have been waiting some time for a proper wn views on this subject. to give our o
- J. B.. of Iowa.—We have never seen Garvey's gyrometer, and as you doubtless understand the general principle of ents, we shall not trouble you with any remarks upon
- C. K., of Mich.-We do not believe your explanation of the light from loaf sugar is correct. Though phosphate of lime is used in clarifying sugar, the quantity of phosphorous left in the refined sugar must be infinitesimal, and not enough to produce risible light.
- J. T. B., of N. Y.-Wells' Chemistry will be suitable Seely & Garbanati, No. 424 Broadway, this city, keep for you.
- eve thing pertaining to the photographic art.
 S. D. T., of Mass.—The several rays of light separated by a prism can be brought together again, when they are found to produce the original whitelight. Nobody knows why light is re-
- o. H. Y., of N. Y.—We do not know where you can obtain the oxy-calcium apparatus to be used with dissolving views, A. A. S., of Va., writes:—"Are not the majority of
- r advertisements headed '\$1.200 a year, with \$ - '\$10 a day'- '\$100 a month,' &c., all humbug, to 'peel the greenys'; or are they real plans by which an honest man can make "green" even to ask the question nev 9" It is rather
- B. & Co., of Cal.—Silver orcs are not worked in the vicinity of New York, nor do we know a single melting company which imports silver ore to obtain the precious metal.
- J. B. G., of Ga. We do not think that glass coffins are le in this country. There are patents on such coffins.
- W. L., of Pa-We never doctored a heavy horse in our life, and have therefore no skill in prescribing for such diseases.
- J. T., of N. B.—We are willing to pay for original contributions of merit, but we do not think the subject of the cause of the aurora borealis would be one of sufficient interest toourreaders You had bettercommunicate with the editors of "Silliman's Jourrai," at New Haven, Conn.
- W. F., of —... We think we could explain the gyroscope in fewer words than you employ, but the interest in the subject seems to have passed away. W. F., of -
- J. A. F., of Ala.—The problem of calculating the force of the sun's attraction on the earth was attacked 170 years ago by the greatest intellect the world ever saw—Sir Isaac Newton. You will find the subject fully discussed in works on mathematical as tronomy. For the other points in your letter see Bartlett's Me
- P. M., of N. Y.—Our artists are now very busy, but if they get a little leisure we may give you a cnt which would explain to your own and other youthful minds the principle of the steam engine. It is something which every boy cught to understand.
- F. M. B., of Wis.-Your inquiry is not very clearly ex-We presume you will be answered, however, when we say that if A has taken out a patent on a combination of exclusively for sewing wheat broadcast, B would not infri employing a similar combination to sprinkle the streets with water.
- G. W. C., of Mich.—Nitrate of silver should be dissolved in ammonia for mixing with the printer's ink, so as to render it indelible for stencil work. The alkaline ammoniarenders the n trate sait capable of mixing with the oil of the ink.
- J. S., of Ohio.—We really believe that the most simple and best way to introduce a reform in our measures would be to adopt the French system; but in the absence of any mere law it would be better to use the centimeter system, with the foot and
- G. A. C., of N. Y.—You have failed to comply with the rule of this office, which requires all letters to be properly signed with the writer's name—not for purposes of publication, but as an evidence of good falth.
- L. M. P., of Mass.—Three elements are necessary in calculating horse-power, namely, time, pressure and speed. No-body can tell "how many cubic inches of 501bs. pressure it takes
- H. D. P. & Co., of Miss.—There is no fixed depth at which to carry lightning conductors into the ground. They should be carried down to rest in moist soil, that is all. A rod is a con-ductor; and one that extends 10 feetabove the roof and is 40 feet high, will protect an area of 5,938 square feet according to come authors and only 785 feet according to others. Reliable information on this point is much wanted.

Money Received

At the Scientific American Office on account of Patent Office business, for the week ending Saturday, March 31, 1860:-

L.&W., of Ind., \$30: H. G., of Mass., \$30: S. S. G., of N. Y., \$36; A. L., of Ga., \$25; T. G. A., of N. Y., \$30; A. J. G., of Mass., \$30; G. W. R., of N. Y., \$50; C. J. S., of S. C., \$26; L. H., of N. Y., \$35; P. B. W., of Ga., \$30; L. B. H., of N. Y., \$30; G. H. M., of Mass., \$30; D. W. A., of Ill., \$35; A. C., of N. Y., \$35; W. P. of Mass., \$30; D. W. A., of Ill., \$25; A. C., of N. Y., \$35; W. P. F., of Conn., \$25; W. J. J., of Ala., \$30; C. F. B., of R. I., \$500; S. B., Jr., of N. Y., \$30; J. H., of Mass., \$32; D. H., of N. Y., \$30; M. W., of L. I., \$30; C. & B., of Ill., \$30; J. II. & A. T. G., of N. Y., \$50; M. A. S., of Ill., \$35; G. W. Van D., of N. Y., \$10; T. G., of Ill., \$25; J. F. H., of Ill., \$15; T. M., of Conn., \$20; J. B. W., of Tenn., \$40; A. C. L., of Mich., \$35; J. R. H., of Conn., \$25; B. & S., of Otio, \$30; W. M., of Mass., \$30; G. C., of Ill., \$10; J. P., of N. J., \$30; W. D., of N. Y., \$20; A. B. P., of Cal., \$30; S. A. C., of Mass., \$36; B. J., of Ky., \$10; J. J., of N. Y., \$30; R. P. Van H., of Ohio, \$30; C. D., of Mass., \$30; J. B., of N. Y., \$35; S. B. D., of N. Y., \$250; C. C. L., of Pa., \$30; J. B., of N. Y., \$25; R. H. T., Jr., of S. C., \$275; W. C. A., of Mo., \$30; W. & D., of Mass., \$36; A. H., of Conn., \$25; J. C., of Conn., \$40; S. F. B., of Mass., \$30; J. B. C., of Ill., \$30; J. B., of N. Y., \$35; J. B. M., of Conn., \$30; J. S., of Als., \$30; J. B., &30; J. J., &30 McC., of Iowa, \$30; F. S., of Ill., \$30; R. & S., of Ala., \$30; C. H. & Co., of N. J., \$30; W. H. D., Jr., of Pa., \$35; A. T. J., of Conn., \$30; J. S., of N. Y., \$30; B. B., of Ohio, \$25; P. M., of Mass., \$25; P. & F., of Ind., \$30; J. J. H., of Md., \$100; E. C., of N. Y., \$30; C. P. & F., of Ind., \$30; J. J. H., of Md., \$100; E. C., of N. Y., \$30; G. T. B., of N. Y., \$30; J. M., of N. Y., \$30; J. C., of Vt., \$30; J. W. M., of N. Y., \$25; A. W. W., of Conn., \$25; J. D. M., of N. Y., \$55; J. W. T., of Ala., \$55; C. A. B., of Vt., \$25; W. A. H., of N. J., \$380; G. S., of Mass., \$35; E. F. R., of Mass., \$35; D. A. W., of N. Y., \$60; W. & T. S., of N. Y., \$68; W. & T., of Ill., \$25; W. B. G., of Pa., \$30; A. W., of N. Y., \$30; F. F. S., of Ill., \$20; A. T. J., of Conn., \$35; C. B., of N. Y., \$58.

Specifications, drawings and models belonging to parties with the following initials have been forwarded to the Pa he week ending Saturday, March 31, 1860:

Office during the week ending Saturday, March 31, 1860:—
J. F. H., of Ill.; W. & D., of Mass.; J. W. M., of N. Y.; A. J. G., of
Mass.; J. F., of Mass.; L. H., of N. Y.; S. R. G., of N. Y.; P. M., of
Mass.; J. D. M., of N. Y.; B. I., of N. Y.; P. J., of N. Y.; C. B., of
N. Y.; A. H., of Conn.; S. S. G., of N. Y.; J. C., of Conn.; H. B., of
N. J.; J. R. H., of Conn.; P. B. W., of Ga.; G. H. M., of Mass.; AW. W., of N. Y.; J. H. & A. T. G., of N. Y. (two cases); W. P. F.
of Conn.; C. S. I., of Ind.; L. & V., of N. Y.; A. L., of Ga.; T. G.,
of Ill.; M. A. S., of Ill.; T. M., of Conn.; A. C. L., of Mich.; C. O., of
N. Y.; D. W. A., of Ill.; J. R. E., of La.; B. B., of Ohio; W. J. J., of
Ala.; A. M. B., of Vt.; W. & T. S., of N. Y.; G. S., of Mass.; J. H.
W., of N. J.; W. & T., of Ill.; E. F. R., of Mass.; A. S., of N. J.;
A. T. J., of Conn.; E. R. R., of N. J.; P. & H., of Cal.; S. A. C.
of Mass. A. T. J., of Mass.

IMPORTANT TO INVENTORS.

THE GREAT AMERICAN AND FOREIGN
PATENT AGENCY.—Messi's. MUNN & CO., Proprietors of the SCHEMIFIC AMERICAN, are happy to announce the engagement of Hon. Judge Mason, formerly Commissioner of Patents, as associate counsel with them. numbel with them in the prosecution of their extensive patent busithey have ever previously been for procuring Letters Patent, and at-tending to the various other departments of business pertaining to they have ever previously been for procuring Letters Patent, and attending to the various other departments of business pertsining to patents, such as Extensions, Appeals before the United States Court, Interferences, Opinions relative to Infringements, &c., &c. The long experience Messrs. Munn & Co. have had in preparing Specifications and Drawings, extending over a period of fourteen years, has rendered them perfectly conversant with the mode of doing business at the United States Patent Office, and with the greater part of the inventions which have been patented. Information concerning the patentability of inventions is freely given, without charge, on sending a model or drawings and description to this office.

Consultation may be bad with the firm, between NINE and FOUR O'clock, daily, at their PRINCIPAL OFFIGE, No. 37 PARK ROW, NEW YORK. We have also established a BRANGL OFFIGE in the CITTOF WASHINGTON, on the CORNER OF F AND SEVENTH-STREETS, opposite the United States Patent Office in New York, and personal attention will be given at the Patent Office to all such cases as may require it. Inventors and others who may visit Washington, having business at the Patent Office, are cordially invited to call at their office.

They are very extensively capaged in the preparation and securing of Patents in the various European countries. For the transaction of this business step have Offices at Nos. 66 Chancery Lane, London; 20 Boulevard St. Martin, Park, and 28 Rue des Eperonniers, Brussela. We think we may safely say that three-four the of all the European of Internation of the European of Description of the European of the Patent of information concerning the proper course to be pursued in obtaining Patents through their Agency, the requirements of the Patent Office, &c., may be lead gratis upon application at the Patent Office, at her it berraches. They also furnish a Circular of Information should after the Commissioners of Patents we commend to the persual of all persons interested in obtaining Patents of th

we commend to bie perusai of all persons and execution.

Messis, Munic & Co.:—I take pleasure in stating that while I held the office of Commissioner of Patents, accer flian one-fourty of ALL true Business of the office came through your hands. I have no doubt that the public confidence that indicated has been fully deserved, as I have always observed, in all your intercourse with the Office, a marked degree of promptoess, skill, and fidelity to the interests of your employers.

Yours, very truly.

UHAS. MASON.

Immediately after the appointment of Mr. Holt to the office of Postmaster-General of the United States, he addressed to us the subloined very gratifying testimonial:

Mesers. Musn & Co.:—It affords me much pleasure to bear testimony to the able and efficient manner in which you discharged your duties as Solicitors of Patents while I had the honor of holding the office of Commissioner. Your business was very large, and you snatianed (and, I doubt not, histly deserved) the reputation of energy, marked shifty, and uncompromising fidelity in performing your professional engagements. Very respectfully, Your obedient servant, J. HOLT.

Messrs. Musin & Co.—Gentlemen: It gives me much plassing to say that during the time of my holding the office of Commissioner of Patents, a very large proportion of the business of inventors before the Patent Office was transacted through your asency, and that I have ever found you faithful and devoted to the interests of your clients, as well as eminently qualified to perform the duties of Patent Attorneys with skill and accuracy. Very respectfully.

Your obedient servant, W.M. D. BISHOP.

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