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•.• Pamphlets giving full particulars of the mode of applying for patents, under the new law which wen tintoforce March 2, 1861, speci-fying 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.

35,286.—John Adams, of Pittsburgh, Pa., for Improvement in Preserve Vessels: I claim the construction of the cover, C, with wedge shaped projections, if in combination with the yoke, B, and the neck of the jar, as shown and described.

[This invention consists in a mode of securing the cover to the neck of the vessel by means of a double-hooked voke catching under a fixed collar on the exterior of the neck of the jar and bearing upon cir-cular wedge-like projections on the top of the cover, the said yoke beingapplied by putting it over the cover and neck, passing its hooks through notches or recesses in the collar, and then turning it round the neck till it comes to a fixed bearing on the wedge-like projections and so secures the cover firmly in place.]

and so secures the cover firmly in place.] 35,287,...,J. Alvord, of Tecumseh, Mich., for Improved Machine for Molding and Pressing Brick : I claim, first. The rotating, clay-grinding or tempering device formed of the knives, D, and spiral flanches, C, shaft, B, and the stationary knives, E, in the cylinder, A, in combination with the feeding screw, G in the box or receiver, F, and the rotary mold wheel, L, provided with the plungers, h, substantially as and for the purpose set forth. Second, The box, T, placed transversely in the lower part of the box or roceiver, F, and in such relation with the mold wheel, L, and pro-cetton, a', to operate as and for the purpose specified. 25, 2920, S, F, Anthony, of Cillurator N, Y, for Tupprovo

conon, a, to operate as an a for the purpose specified.
35,288.—S. E. Anthony, of Stillwater, N. Y., for Improvement in Shingle Machines:
I claim the arrangement of the saws, c i, the reciprocating gate, B, and the laterally adjustable reciprocating gate, D, with each other and with the bury, E, cleat, i, and carriage, F, the whole constructed and operating in the manner shown and described.

[This invention relates to an improved shingle machine of that of

in which saws are employed to perform the work. The object of the invention is to obtain a machine by which the whole bolt may be sawed simultaneously into shingles of proper taper form, and to this end two gangs of saws are employed, one gang being placed in an ordinary re-ciprocating gate or frame which has a lateral as well as a reciprocating movement, all being so arranged as to obtain the desired result.]

35,289.—Sarah A. Baldwin, of Waterbury, Conn., for Im-proved Combination of Sofa and Bathing Tub : I claim, as an improved article of manufacture the combined sofa and bathing apparatus, substantially as described and set forth.

35,290.—C. E. Bancroft, of Waterbury, Vt., for Improved Clothes Wringer : I claim the shape and construction of the circular blocks, II, arranged and operating as described and for the purposes set forth.

ranged and operating as described and for the purposes set forth.
35,291.—L. A. Beardsley, of South Edmeston, N. Y., for Improvement in Hop Frames :
I claim the employment of electric insulators in combination with two series of horizontal wires running at a rightangle with each other, substantially in the manner and for the purpose set forth.
I also claim the spreader, s, in combination with the divergent training cords, o and p, substantiallyas and for the purpose specified.
I also claim forming the training cords of wire intertwined with one or more fibrous strands, for the purpose specified.
I also claim the use of the hooks, t, having a sharp or annular in-ner odge, and otherwise constructed as described for the purpose set forth.

10rfm.
35,292.—M. C. Bogia, of Philadelphia, Pa., for Improvement in India-Rubber Sword Handles:
I claim combining a tube of gum elastic with the shank of a sword, agger or other like weapon, substantially in the manner and for the purpose set forth.

35,293.—Jehu Brainerd, of Cleveland, Ohio, for Improve-ment in Depilating and Bating Skins: I claim the described compound for depilating and bating hides and skins, the same being combined in one operation, as specified.

skins, the same being combined in one operation, as specified.
35,294.—S. A. Briggs, of Providence, R. I., for Improvement in Heaters:
I claim, first, The tues, H H, arranged within the drum, E, or at the upper neutred concel parts, b d, of the furnace and cold air pipe, As and for the purpose specified.
Second, In combination with the flues, H H, the spout, J, provided with a central partition plate, i, and plates, h', and communicating the same self cleaning, as set forth, Third, The combination of the furnace, C, cold air pipe, D, flues, H H, and pipes, I, and schown within the chamber, B, for the purpose specified.

[This invention consists in a peculiar manner of constructing the furnace in connection with a central cold air pipe, whereby a large volume of cold air may be heated in a comparatively short time and a great saving thereby effected in the consumption of fuel. The inven tion also consists in a novel construction and arrangement of flues, whereby economy in fuelis not only obtained but the flues also rendered self-sustaining.]

dered self-sustaining.]
35,295.-J. S. Brown, of Washington, D. C., assignor to himself and Joseph Kent, of New Albany, Ind., for Improvement in Water Elevators:

I claim, first, The conical portion, b, of the windlass, or its equivalent, for conveying the raised bucket over the discharging spoul, arranged and operating substantially as specified.
Second, I also claim the lever, I, and couble branch chain or cord, m, acting in combination, substantially as specified, for lifting the valve.
T claim, first, I also claim overbalancing the empty bucket, G, when suspended at or near the apex of the conical portion of the windlass by the crark or winch, C, substantially as and for the purpose set forth. Fourth, I also claim the discharging spout, D, substantially as and for the purpose specified.

35 296.-William Brown, of Petersburg, Pa., for Improved

96.—William Drown, of receivency, ran, for ampressive Washing Machine : laim the griping bar, D, hinged to the uprights, a a, in the man lescribed and shown, for the purpose set forth.

ner described and snown, for the purpose set forth. 35,297.—Charles Bushor, of Philadelphia, Pa., for Improve-ment in Machine for Loading Coals, &c.: I claim the arrangement of an elevator on a movable truck, for the purpose of loading coal, when the same are constructed and combined in the manner substantially as set forth and described.

35,298.—Alvin Cahoon, Jr., of Harwich, Mass., for Im-provement in Combined Spirit Levels : I claim the instrument described, consisting of two horizontal spirit levels at right angles one to the other, and one of them rendered ad-justable in the vertical plane, for the purpose of determining the trim of a vessel, substantially as described. 35 200

of a vessel, substantially as described. 35,299.—L. S. Chischester, of New York City, for Improve: ment in Grain-Weighing Machines: I claim, first, A series of buckets set between and revolving with heads on a shaft, when said buckets are hung on rentry, and allword a limited amount of motion, the same insuring accuracy of weighing, as set forth.

a numted amount of motion, the same insuring accuracy of weighing, as set forth. Second, I claun the employment of two cut-offs to the hopper, the first shutting off the main supply of grain, while the second regulates the supply neces. up for making accurate weight, as specified Third, I claum the arrangement of mechanism shown, consisting of the arms, 6 and 7, and blocks, 6, for actuating the first and second cut-offs as the buckets and scale beam descend, as set forth. Fourth. I claim the employment of the second or balancing weight of the arms, 6 and 7, in the manner set forth. Fifth, I claim the weights, 5 and 9, to counteract the friction of the cut-off rams, 6 and 7, in the manner set forth. Sith, I claim the pawl, r, applied and acting in the manner set forth, to hold the bucket in place, and prevent any variation of the leverage of the same on the scale beam as the parts descend, as set forth.

35,300.—Abram Clow, of Port Byron, N. Y., for Improved Attachment of Whiffletrees to the Tow Lines of Canal Boats:

I claim the combination of the guard, g, with the hook, C, collar, B, and catch, D, all of said parts being constructed and operating as set

[This invention relates to a mode of attaching whifile trees to the tow ines of canal boats, whereby the whiffletree may be instantly de-tached from the towline when the latter is drawn taut, as,for instance, when a boat, in passing another one, has its towline each against it, a contingency which frequently occurs, and which causes the horse to be thrown into the canal.]

-C. C. Converse, of Elmira, N. Y., for Improved 35,301 Mangle :

Mangle : I claim the pressure rollers, B C, and endless apron, L, in combina-ion with the folding or extension frame, K, all arranged and applied o the framing, A, substantially as and for the purpose set forth. The object of this invention is to obtain a clothes mangle which will

be simple and efficient in its operation and capable of being folded up compactly when not required for use. To this and the invention con sists in the employment of one or two pressure rollers, and an endless apron, the latter being applied to an adjustable or extension frameand arranged in such relation with the pressure rollers as to effect the desired result

Mr. Converse's residence is Dubuque. Iowa, and not Elmira, N. Y., as above stated.]

35,302.—J. C. Currier, of Bradford, Vt., for Improvement in Window Sashes : 51 claims a window sash having its top and bottom rails, b b, formed of two parts, 12, and its cross pieces, c, and stiles, aa, grooved, as shown, to admit of the insertion and securing of the panes, e, in the sash, substantially as shown and described. [This invention relates to an improved manner of securing the lights or panese f glass in the asch where the new of mutter as one of the security on the stars.

or panes of glass in the sash, whereby the use of putty or any other plastic substance is entirely avoided and the panes not only secured in the sash so as to have water-tight or weather-proof joints, but also in such a manner as to admit of being very readily inserted in the sash or removed therefrom, so as to facilitate the removal of broken panes

and the insertion of new glass therein without injuring the sash, as is frequently the case in cutting away the putty, which becomes quite hard by age.]

35,303 -H. G. Davis, of New York City, for Improvement

in Extension Splints : I claim the described splint composed of the tube, A, threaded part, B, and vent or equivalent, C, as a new article of surgical apparatus, the same being adapted to operate in the manner and so as to realize the advantages set forth.

35,304.—S. F. Day, of Ballston Spa, N. Y., for Improve-ment in Instruments for Telegraphs : I claim, first, The combination with the sounding lever, 6, having

I claim, first, The combination with the sounding lever, 6, having one or more armatures attached, and with the spring, 13, of the adjust-able counterpoise or balance weight, 9, substantially as and for the purpose set forth. Second, The combination of the adjustable counterpoise or balance weight, 9, the sounding lever, 6, having armatures, 7 7', attached, and spring, 13, with one or more U-cleatro magnets, constructed and ar-ranged substantially as and for the purpose set forth.

35,305.-R. E. Dixon, of New York City, for Improvement

30,300.—K. E. DIXOR, OI New YORK CLV, FOR Improvement in TObacco Pouches: I claim the arrangement and combination of the pipe case, A. valve, g, and tobacco pouch, B, substantially as described, so as to keep the two entirely separate from each other, but so that the pipe can be loaded whenever desired, without opening the pouch or without the use of the fingers to load it as is usually necessary.

use of the integers to load it as is usually necessary. 35,306.—A. P. Durant, of Atlanta, Ill., for Improvement in Combined Cultivator and Seeding Machine : I claim, first, The arrangement of the hopper box with its shaft ope-rated as described and by the means described, with the cultivator con-structed and operated as described. Second, The arrangement of the sliding beam, D, with the levers, H and I, and in connection with the cultivator beam, G, to enable the driver to operate the same, as described.

driver to operate the same, as describer. 35,307.—W. H. Earnest, of Clarksburg, Va., for Improve-

ment in Cradles : I claim the employment of pivoted arms, G G, upon the rocker or ockers of cradles of the description represented and specified, for the surposes set forth.

[This invention] consists in the application of pivoted stops to the rockers of a cradle for the purpose of preventing the motion of the cradle when the babyis asleep, or when it is awake toprevent the body falling out on the floor by the tilting or upsetting of the cradle.

Mr. Earnest's address is Parkersburg, Va. ]

35,308.-N. F. English, of Hartland, Vt., for Photographic

30,303.—N. F. English, of Learning, ..., ... Apparatus: I claim the combination with the box, A B B C C, and the lid, D, of the end pieces, G G, Vp piece, E, and front piece, F, the whole ap-plied and arranged substantially as specified. Second, Combining the water fountam or vessel, K, and the vessel, L, from which the developing fluid is used by means of valves, k p. and a shoe piece, N, or its equivalent, making one outlet for both ves-sels, substantially as and for the purposes specified.

sels, substantially as and for the purposes specified.
35,309.—W. D. Grimshaw, of Newark, N. J., assignor to himself and C. A. Teneyck, of New York City, for Improvements in Forging Hammers:
I claim, first, The lifting slot, 5, formed as shown, and arranged in i connection with the crark pin, 4, shaft, 2, ratchet wheel, 1, pawl, 3, and wheel, h, as and for the purposes specified.
Second, I claim arranging the hammer, 4, arm, o, parallel motion bar, r, and lifting rod, n, in the manner and for the purposes specified.
Third, I claim the arrangement of the wheel, h, belt, i, shaft, f, and pinion, e, incombination with the forging hammer and series of anvils, in the manner and for the yorkes field.
Fourth, I claim the air cylinders, t, with the valves, 10 and 11, in combination with the being arranged and acting as and for thepurposes specified.

oses specified.

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35,310.-E. D. Griggs, of Waterbury, Conn., for Improvenent in Photographic Albums: I claim combining the mat with the pieces, A B B, by means of a fanch, as, interposed and secured between the said pieces, substan-tially as specified.

lianch, a a, metroposed and secured between the same pieces, substantially as specified.
35,311.—W. F. Goodwin, of Powhatan, Ohio, for Improvement in Breech-Loading Ordnance:
I claim, first, The method of locking the breech piece with, and unlocking it from, the rear end of the barrel, by means of one or more keys passing through the breech and entering recesses in the barrel, as described, and by combining with said keys a system of levers arranged in relation to the breech handle and the said keys as as to operate the latter in the act of depressing the breech, by grasping the handle, as set forth.
Second, The method described of constructing the breech piece in three parts, under the arrangement set forth, and when combined with wedges or keys to tighten the breech, and thus insure perfect frectional contact of the breech and barrel.
Third, Providing the sides of the rear end of the barrel with trunnions upon which to hang the breech, in combination with the steps or projections and grooves, in the manner and for the purpose set forth.

10th. 35,312.—Richard Griswold, of Bainbridge, N. Y., for Im-provement in Metallic Pens: I claim a pen, A, provided with a longitudinal plate, B, inserted in its slit, a, so as to project above and below the pen, about at right angles therewith, substantially as and for the purpose set forth.

This invention consists in applying to an ordinary metallic pen a plate, which is fitted in the slit of the pen, and so arranged that the pen is rendered capable of holding a much larger 'amount of ink than usual, so as to avoid as frequent dipping and replenishing, and caued the pen, when in use, to shed the ink freely, without the liability of making blank or imperfect marks or strokes, and also to insure the

marks or strokes being made of a width equal to the spread of the pen, whether the same be coarse or fine.]

35,313 .- J. D. and A. M. Halsted, of Rye, N. Y., for Im-

provement in Hand Cultivators: We claim the combination of the sets of knives, 1, 7, as described, with the arms, 22, to which they are attached, and will: the clip, 5, shatt or axie, 3, wheels, 4, handle, 7, and clamps, 88, the whole being constructed and arranged, substantially as described and operated as set forth.

A. K. Hay, of Winslow, N. J., for Improvement 35.314.in Glass Furnaces :

In Glass F urnaces: I claim the described furnace, composed of the heating compar-ment, with its two fireplaces, C and C', platform, D, and two pits E E, the intermediate compartment, with its platforms, L L and it continuation of the said pits, and the annealing compartment, H, th whole being arranged substantially as and for the purpose set forth. 35,315.—Reuben Hoffheins, of Dover, Pa., for Improvement

35,315.—Reuben Hoftheins, of Dover, 1 a, 100 and 1 in Harvesters: in Harvesters: I claim, first, A combined reel and rake, rotating upon a vertical axis, and having its arms successively turned up into an inverted posi-tion, so as one source the main frame, substantially as explained. Second, The inclined standard, I, rigidly mounted upon a loosely-hinged platform, and employed to support a revolving reel and rake in an unchangeable position in relation to the platform, without ob-structing the free motion of the latter. Third, The yielding and swiveled rod, Q, operating in combination with the band, P, and puleys, O and R, in the manner and for the purposes shown and explained.

rating an oblique reeland rake, whereby it is rendered more effective in its action on the standing grain, and in removing the gavels from the platform, and afterward elevated from the ground, in such a way as to avoid scattering the cut grain.]

85,316.—J. R. Howard, of Worcester, Mass., for Improved

Fountain Blacking Brush: I claim the described blacking brush, consisting of the brushes, the eservoir and the self-closing apparatus, when constructed and opera-ing, substantially as set forth. 35,317 .- Samuel Keeler and Jacob Barthel, of Lancaster,

Pa., for Improvement in Seeding Machines : We claim the improvement in the cylinder, by making it with flanges djustable, as described.

35.318.-John Lemman, of Cincinnati, Ohio, for Improved

Mortising Machine : I claim the mode of supporting and guiding the mandrel on the curved bar, F, adapted for vertical and angular adjustment, substan-tially as and for the purposes set forth.

ually as and for the purposes set forth. 35,319.—W. A. Lighthall, of New York City, for Improve-ment in Condensers for Making Potable Water : I claim the combination of the discharge pipe, A, with the series of cooling tubes, D, arranged and operated as and for the purpose set forth.

35,320.

35,320.—Edwin May, of Indianapolis, Ind., for Improve-ment in Apparatus for Casting Bullets: I claim, first, The casting of conical and hollow bullets, and swaging he same while the lead is in a plastic state, by means of the molds, i, in combination with the plungers, h h & k, and the spirings, e e e, when constructed and operated, substantially as and for the purposes set forth.

when constructed and operating the set forth. Second, The adjustable molds, i, and clamps, j, in combination with the lever, a and d, when constructed and operated, substantially as and for the purposes set forth.

as and for the purposes set forth. 35,321.—J. H. Mead, of New York City, for Improved Soap Cups for Washstands, &c.: I claim, as a new article of manufacture and trade, a dish or vessel, having its bottom constructed substantially as described and for the purpose set forth. 35,322.

22.-J. W. Moore and W. H. Elliot, of Plattsburgh, N. Y., for Improvement in Lanterns for Marine Tele-

graphs: We claim, first, The alternate arrangement of the colored glasses, m, with the opaque divisions, n, when these are employed with open-ing, j, in the outer sheli, a, as and for the purpose specified. Second, The alternate of the glasses, m, and reflectors, n, in the re-volving lantern, b, as and for the purpose specified.

vorving nattern, o, as and no the purpose specified.
35,323.—J. B. Murray, of New York City, for Improved Mode of Collecting Letters on Street Railroad Cars: I claim collecting and conveying letters and other mail matter to the post office, in towns and cities, by means of properly-secured letter boxes or other suitable repositories, for the reception of drop letters, in combination with street railway cars, or other suitable public vehi-cles, such as are used for local passenger conveyance on stated routes, in towns and cities, substantially as described. In towns and cities, substantially as described.
35,324.—J. H. Newcomb, of Port Norris, N. J., for Improvement in Dredging Machines:
I claim the application of guards or fenders, c d e c' d' e', to machines for dredging oysters, coal, or other sunken objects, said guards or fenders being constructed and operating, substantially in the manner and for the purposes set forth.

ner and for the purposes set form. 35,325.—Henry Redlich, of Chicago, Ill., for Improved Apparatus for Corking Bottles: I claim the box, A, provided with an inverted conical bore, B, and plunger, D, in combination with the movable cap, C, substantially as and for the purpose set forth. [The object of this invention is to obtain a simple and efficient de-

rice, by which the bottles may be corked and the corks compressed to

at the bottles at one operation.] 35,326.—W. B. Ryan, of East Pembroke, N. Y., for Im-provement in Potato Digger: I claim giving the shaker, L. an up-and down percussive motion, as distinguished from a horizontal vibrating motion), by means of the rock shaft, K. and arms, K', wheel, n, trips, n', and constructing rols, M, substantially as set forth. I also claim the hinged frame, G, in combination with the shaker, L, arms, H, rols, F and M, and cutter, E, for the purposes, and sub-stantial to a described

fit the bottles at one operation.]

-O. Sage, of Wellington, Ohio, for Improvement Cheese Vats: 35.327.

in Cheese Vits: I claim the combination with the lower part of the water box chamber, of an oblong or top-inclined furnace, having inclined er tubes, the parts being arranged in relation to each other as and for purposes set forth.

purposes set forth. 35,328.—F. A. Salisbury, of Greene, N. Y., for Improved Knife-Cleaning Box: I claim, as a new article of manufacture, the polishing box, D, hav-ing a wire gauze or a perforated bottom, in combination with the rub-ber, C, the whole being arranged, operated and incased in the box, A, substantially in the manner described and for the purposes specified. 35,329.—Gerad Sickles, of Roxbury, Mass., for Improve-ment in Metal Plates for Protecting the Soles of Boots

and Shoes all GLOUES: I claim, as a new article of manufacture, a protector for the soles of boots and shoes, consisting of a small disk of metal, formed with sharp points or spurs around its periphery, projecting at right angles to the plane of the disk, and adapted to secure it to the sole by driving into the leather, as described.

This invention consists in a peculiar form of metal plate, which may be applied to the soles and heels of boots at trifling cost, thereby

greatly increasing their wear, without materially adding to their weight. ] 35,330.-Nelson Silvester, of Granger, Ohio, for Improved

Foot Corn Planter: I claim the lever, J, and shovel, I, in combination with the platen, t, and piston, H, arranged and operating as and for the purposes set orth.

35,331.—S. E. Southland, of Jamestown, N. Y., for Im-

35,331.—S. E. Southland, of Jamestown, N. Y., for Imroved Device for Fastening Cattle : I claim, first, The arrangement of the suspended swinging frame, D, so constructed, by means of hinged joints or their equivalents, as to swing forward and backward in combination with neck bars, A A', or their equivalents, constructed and operating substantially as and for its equivalent, and so constructed as to open and close, and to swing forward and back, and right and left, substantially in the manner and for the purpose show and described. Third, The arrangement of the long back, in combination with he swinging neck bars, A A', constructed and operating substantially as and for the purpose show and described.

[The object of this invention is to arrange the means employed for

astening and unfastening cattle, in such a manner that by a single movement a whole row of cattle can be fastened or unfasten simultaneously, leaving the cattle free at the same time to move their heads in either direction, or to lie down and get up without difficulty.]

35,332.—John Sperry, of New York City, for Improve-ment in Veneer Cutting Machines: I claim suspending the log carrier, A, or the knife, F, from two or more pivots, a, projecting from rotary or oscillating arms or disks, B, substantially in the manner and for the purpose shown and described. And I also claim imparting to the log carrier or to the knife a rotary drawing motion, substantially such as described, for the purpose set forth. drawing

forth. **35,333.**—W. T. Spies, of Baltimore, Md., for Improvement in Railroad Car Coupling:
Iclaim the combination and arrangement of the movable block, with its notch for holding and regulating the coupling link with the concave and convex form of the coupling link, and the convex form of the inside seat of the buffer, in the manner described, and for the purpose of forming a self-coupling buffer for the connection of rail-road cars.

purpose of forming a self-coupling builter for the connection of railroad cars.
35,334.—C. B. Tatham, of Brooklyn, N. Y., for Improvement in Apparatus for Casting Minié Balls:
First, I claim the means, substantially as described, of forming the hole in the base of the ball by a core held in its place within the chamber, by its contact with the piece or pleces which form the same, so that any expansion or motion of the mold will carry the cores therewith, and maintau their central position within the chambers. Second, In combination with means substantially as described, of preserving the centrality of the cores, and with means substantially as described. Third, In combination with means substantially as described, of preserving the centrality of the cores, and with means substantially as described. Third, In combination with means substantially as described of removing and returning to their places a number of such cores, I claim the use of chambers, so located and arranged as to be of studying the boomst construction of the balls directed upward, for the purpose of suble to estimation of the balls directed upward, for the purpose the solidity of the balls.
5.335.—Miner Van Auken, of Amsterdam, N. Y., for Im-

5,335.—Miner Van Auken, of Amsterdam, N. Y., for Im-proved Clothes Wringer: First, I claim the application and use of one or more lever cores, h or their equivalents, substantially in the manner and for the purpose of forth

or their equivalents, substantially in the manner and for the purpose set forth. Second, I claim the spring, G, or its equivalent, constructed and ap-plied substantially in the manner and for the purpose set forth. Third, I claim, in combination with the boxes, F, and crank screw, II, extending the lower limb, m, of the spring, G, outside the stand-ards, A, or in an equivalent manner supplying the means whereby the lateral movement of the spring may be prevented, as described. Fourth, I claim the application of the lever screw, H, or its equiva-lent, in such manner as to permit of the oscillation of the spring, G, substantially as described. Filth, I claim the application of a single lever knee, P, or its equiva-lent, to the girt, C, substantially in the manner and for the purpose set forth.

lent, forth uth, I claim the eccentric lover arms, V, or their equivalents, for armose set forth. the n

Seventh, I claim one or more relief rolls, or their equivalents, as and for the purpose set forth.

35,336-J. E. Thomson, of Buffalo, N. Y., for Improve-ment in the Manufacture of illuminating Gas:

I claim the manufacture of an illuminating das a produced by combination of petroleum or rock oil, or other hydrocarbon gases, etroleum being used by preference, with combination gases produced by the attorn of water in a spheroidal state on hydrocarbon vapors ubstant....sidescribed. 35,837. Julius Thomason, of Taunton, Mass., for Improve

nient in Screw Drivers : I claim the combination of the house, 3, with screw driver, A, sub-tantially as described and for the pactors specified.

35,338.--Madison Vedder, of New York City, for Improve ment in Catamenial and Urinal Bandages and Recep

ment in Catamenial and Urmal Banuages and Recep-tacles: I claim, first, The combination of the catamenial receptacle, A, and urine pouch, B, substantially as and for the purpose specified. Second, Providing for the ventiation of a catamenial receptacle by means of holes, i, in the sides thereof, substantially as set forth. Third, Making the connections, C C', between the front and back of the catamenial receptacle, and the gridle, which attaches it to the body or any portion of such connections, of tubular form, whereby they are made to serve the additional purpose of ventilating the receptacle, substantially as specified.

5,330.—Julius Von Hofe, of New York City, for Improvement in Tips for Fishing Rols: I claim the fishing rol tip formed with the guide, o, and receiving he sheave, i, in the manner and for the purposes substantially as prediced. 35,339.

the sheave, i, in the manner and for the purpose seried specified. 35,340.—C. H. Walker, of Warren, Mass., for Improved Chest of Drawers: I claim, as a new article of manufacture, a chest, A', provided with drawers, A, sleve. B, drawers, C D E, adjustable molding baard, F, extension, I, slide, M. and closet, N, all arranged in the manner and for the purpose described.

[The object of this invention is to produce a receptacle capable of holding all the articles generally used by housewives in transacting their household duties, in a compact form and with a handsome exte rior.

35,341.—Gustav Wedekind, of Philadelphia, Pa., for Improved Shade Holder for Gas Burners or Lamps: I claim the cohubination of the clasp, open rung, or buckle, d, with a shade holder, substantially as and for the purpose set forth. I also claim, in combination with the shade holder, the supports, i, 1 also claim, in combination with the shade holder, the supports, i in the braces for holding a chimney or protector, substantially as de

scribed.
35,342.—C. S. Westcott, of New York City, for Device to Prevent Opening Letters without Discovery :
I claim the formation of any letter, inscription or device upon a letter, envelope or material to be used as a seal, in an ink, or paint, which will be destroyed or deface by an attempt to open a letter, envelope or package upon which the same is placed. 35.343.

5,343.—J. R. Whittemore, of Chicopee Falls, Mass., for Improvement in Rakes for Harvesters: I claim the combination of the rake,  $\P$ , and plate cam, G, whon ar-anged substantially in the manner and for the purpose described.

36,344.-Hosea Willard, of Vergennes, Vt., for Improved

Looking Glass: I claim, as a new article of manufacture, a mirror or looking-glass for domestic or household use, constructed of a plurality of panet placed in contact with each other so as to form a longitudinal section of a polygon, as set forth.

[This invention relates to a new and improved mirror or lookingglass for domestic or household use, and consists in constructing the nirror of a plurality of panes so placed as to form a longitudinal sec tion of a polygon, and admit, when suspended or fixed in proper position, of several persons using the mirror at the same time without in the least interfering with each other.

35,345.—E. C. Wilson, of Peekskill, N. Y., for Improved Stair-Rod Holder: I claim the application of the clasping spring, b, with the back, c, and point, a, all arrange as a stair-rod holder, substantially as de-scribed.

35.346 -Isaac Winslow, of Philadelphia, Pa., assignor to

J. W. Jones, of Portland, Me., for Improved Process of Preserving Green Corn: I claim the described process of preserving indian corn an the green state, without drying the same, the corn being sealed hermetically in cans or other vessels, and then exposed to heat, substantially in the manner add for the purposes set forth.

347.—T. C. Ball (assignor to himself, D. M. Smith, H. H. Mason and A. C. Mason), of Springfield, Vt., for Improvement in Blind and Shutter Supporters: claim the combination of the catch, D, with the blind and the lift-thooks, E F, in the manner and for the purpose shown and de-thed 35.347

[The object of this invention is to obtain a fastening of simple con

struction, which will serve, when the shutter or blind is secured in either an open or closed state, as a support to the same, and prevent it from sagging.]

it from sagging.] 35,348.— John Howe, Jr., F. M. Strong and Thomas Ross (assignor to John Howe, Jr.), of Brandon, Vt., for Improvement in Portable Platform Scales : We claim, first, The lever frames, B B', and platforms, C, placed within the lower part, A, of a box; in combination with the beam, G, placed within the upper part or cover, F, of the box, and connected to the lever frames, as shown, and all arranged in such a manner as to admit of the part or cover, F, when the scales are not in use, being folded down on the part, A, to form a receptacle for the scales, as set forth. Second, The slide, L, and arm, p. or their conversions when placed

Totale down on the part, A, to form a receptacie for the scales, as set forth. Second, The slide, L, and arm, p, or their equivalents, when placed within the box or the cover thereof, and in relation with the beam, G, as shown, for the purpose of raising the fulerum, h, of the beam off from its bearings, and preserving them from wear. Third, The elastic bearings,  $\bullet \Phi'$ , in combination with the scale and box, all arranged as and for the purpose set forth. Fourth, The hook, k, and spring, l, when used in completion with the box and scale, and placed in such relation with the weight support-er, I, to properly hold the same when the box is in a closed state. Fifth, The rod or shaft, i, provided with the plate, u, and fixed weights, s, when not in use, within the box, as set forth. [The object of this immention is obtain so before aceles which will

[The object of this invention is to obtain a platform scale which will be capable of being folded so as to form a very compact article when not required for use, and have all its parts so protected that they cannot be injured by transportation under ordinary care, and at the same time admit of being very readily adjusted for use. The invention is more especially adapted for army use, but may be advantageously em-

ployed in other cases. i

align of the case.1
solution of the case.1</

is completed, are raised and lowered in the manner set forth and described.
35,351.--John Power, of Boston, and A. J. Bailey, of Charlestown, Mass., assignor to Peter Holmes, of Charlestown, Mass., for Improved Machine for Cutting Cork Stoppers for Bottles and other Vessels:
We claim, first, The combination of the reciprocating cutter, L, and rotating mandrel, O, when arranged substantially as shown, se that the latter will have a continuous rotary motion imparted to the outer, for the purpose set ferth.
Second, The cap, K, of slide, I, with the koife, L, and spirally-grooved shafts, J.J. attached in combination with the sliding rack, Ø, punions. N. sund his pins, he', arranged substantially as shown, for clevating and depressing the knife, L, for the purpose specified.
35,352.-Osmond Reed (assignor to himself A. D. Cheesbrood, of Paris, Mich., for Improved Hay Rigging : First, I claim the wooden or iron arms constructed in the form substantially as and for the purposes described.
Scoond, The adjustable joint at the end of the projecting arms, for the ourpose described.
Third, The vertice arm with the hook or ring at the top, for the purpose described.

poses described.
35,353.—Joseph Rusch (assignor to himself and Joseph Lux), of New York City, for Improvement in Attaching Armor Plates to Vessels:
I claim the combination of the additional planking or bed, B B, bole, C, continuous clamp, D, and grooved armor plate, E E, all constructed and applied in the manner and for the purposes shown and described.

and appind in the manner and for the purposes shown and described.
 35,354.—J. M. Seymour (assignor to E. H. Ashcroft), of Boston, Mass., for Improvement in Gas Check for Breech-Loading Firearms:
 I claim the space, a, and the shoulder, d, arranged and combined with the expansive breech plug and its socket, substantially in manner and so as to enable the said breech plug to operate as specified.

and so as to enable the said breech plug to operate as specified. 35,355....W. C. Vosburgh and W. A. Ludden, of Brooklyn, N. Y., for Improvement in the Means of Attaching India Rubber to Pencifs: We claim the employment of the semi-cylindrical clamps, b b, formed THE INDUSTRIAL CHEMIST. Published by John Hillyer, No 249 Pearl street, New York City. Edited by Prof Dussauce, of the Imperial Laboratories of France.

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as specified, and a ring or rings, d, in combination with the section of india rubber, c, and the pencil or pen handle, a, for the purposes as ndia rub

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set forth. 35,356.— Henry Kellogg, of New Haven, Conn., for Im-provement in Breech-Loading Firearms: I claim, first, The combination and arrangement of the pawl or catch, D, with the trigger, F, operating in the manner and for the pur-pose substantially as set forth. Second, I claim the combination and arrangement of the spindle, H, crosshead, K, and slots, L, in the manner and for the purpose substan-tially as set forth. Third Ledem the combine social f in combination with the guiddle

crosshead, K, and stors, L, in the manner and for the spindle, Third, I claim the spring catch, f, in combination with the spindle, H, crosshead, K, and slots, L, in the manner and for the purpose sub-stantially as described.

RE-ISSUE.

1,310.—R. B. Goodyear, of Elkton, Md., formerly of Phil-adelphia, Pa., assignee of A. Bowie and Charles Carr, assignees of the said R. B. Goodyear, for Improve-ment in Apparatus for Operating Shuttle Boxes of Looms. Patented March 13, 1849. Antedated Sept. 13, 1848:

13, 1848 : I claim the employment, for the purpose of weaving, of an index late having movable and adjustable pins projecting at different dis-ances from the face of said plate, in combination with the slove. He rits equivalent, for the purpose of raising and falling the shuttle over the correspond with the pattern desired to be formed, the whole constructed and arranged in the manner described.

#### EXTENSION.

5,575.—A. T. Serrell, of New York City, for Improvement in Machinery for Making Moldings. Patented May 16, 1848. Re-issued Jan. 7, 1851. and June 21, 1853 : 1 claim the application of the changeable-feeding rollers, c 1, made as disks or flat rings, with serrated edges of varying angles, and changeable or unequal diameters to feed in materialscut in varying or irregularsections, in combination with changeablerotary outters and changeable standing planes, to produce wood moldings of different sizes, with smooth surfaces from material cut or prepared in varying or unequal sections tor such purposes; the whole applied, constructed and operating substantially in the manner and with the effects de-scribed and shown.

#### DESIGNS.

32.—James Paterson, of Elizabeth, N. J., assignor to Deborah Powers, A. E. Powers and N. B. Powers, of Lansingburgh, N. Y., Design for a Floor-cloth Pat-1.582.

tern. 1,583 to 1,594.—H. G. Thompson, of New York City, as-signor to Hartford Carpet Company, Twelve Patents for Designs for Carpet Patterns.

### Books and Publications Received.

DAVIES'S PRIMARY ARITHMETIC. By Chas. Davies, L.L.D., Author of a full Course of Mathemetics. Published by A. S. Barnes & Burr, New York City.

This work is designed for young children, and is constructed upon the plan of object teaching, by presenting to the mind of the pupil the number or figure in connection with other objects of the same kiud. It is a most capital arithmetic, and we can indorse its good qualities in the fullest sense. Dr. Davies is wellknown as one of the first math-ematicians of the present day.

THE ATLANTIC MONTHLY. Published by Ticknor & Fields. Boston

The June number of the *Atlantic* is equal to its predecessors, but we are amazed at the taste that can admire Lowell's doggerel.

BALLADS OF THE WAR. Published by John Robins, No. 37 Park-row, New York City.

We have received the first number of a most elegantly printed and illustrated poetical work bearing the above title. The subject which fills this number is entitled "The March to the Capital," and is written by Augustine J. H. Duganne. It is a stirring patriotic composition. All the prominent events of the war are to be chronicled in the same poetic manner. The engravings are superb.

THE BOY SOLDIER; Infantry Tactics for Schools. Messrs. A.S. Barnes & Burr, New York City. This work, of 180 pages, with numerous illustrations, explains the

details of infantry tactics so fully and clearly that "greenhorns" in theartmayacquire the principles of soldiering without employing a regular drill master, and then if the student has the requisite pluck he regulat this masse, and then it the student has the reprinter plater in can enlist and fight for his country whenever her sons are needed for this purpose. Every man has now a good chance to become a theoretical soldier by getting this book of tactics.

BLACKWOOD'S EDINBURGH MAGAZINE, for May; THE LON-DON QUARTERLY REVIEW, and the WESTMINSTER RE-VIEW, for April. Bepublished by Leonard Scott & Co., 79 Fulton street, New York City.

The best literature in the world.

HUNT'S MERCHANTS' MAGAZINE.—Published by William B. Dana, 61 and 63 William street, New York City.

While this standard publication maintains its established reputation for accuracy, it has received new life and spirit from its present proprietor.

AMERICAN JOURNAL OF SCIENCE AND ARTS. Published b William B. Silliman, B. Silliman, Jr., and James H Dana, at New Haven, Conn.

We observe that this publication is quoted more and more by European scientific works of the highest character.

JOURNAL OF THE FRANKLIN INSTITUTE. Published by the Franklin Institute, at their hall, in Philadelphia. THE MEDICAL AND SURGICAL REPORTER. Published by Lippincott & Co., 144 and 146 North Fifth street. Phil-adelphia.

BUFFALO MEDICAL AND SURGICAL JOURNAL. Published by J. F. Miner, M. D., Surgeon to Buffalo General Hospi-tal, Buffalo, N. Y.

HALL'S JOURNAL OF HEALTH. Edited and Published by W. W. Hall, M. D., 42 Irving Place, New York City.

THE AMERICAN JOURNAL OF PHOTOGRAPHY AND THE AL-LIED ARTS. Published by Charles A. SEELY, A. M., Editor and Proprietor, 244 Canal street, New York City

Published by W. B.

THE NEW YORK DENTAL JOURNAL. Publishe Roberts, 691 Broadway, New York City.

City.

# PATENTS FOR SEVENTEEN YEARS.



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

The duration of natents granted under the new act is prolonged to SEVENTEEN years, and the governmentfee required on filing an application for a patent is reduced from \$30 down to \$15. Other change 

On filing each Caveat\$10
On filing each application for a Patent, except for a design \$15
On issuing each original fatent\$20
On appeal to Commissioner of Patents
On application for Re-is sue\$30
On application for Extension of Patent\$50
On granting the Extension\$50
On tiling Disclaimer\$10
On filing application for Design, three and a half years \$10
On filing application for Design, seven years\$15
On filing application for Design, fourgeen years\$30
at the statistic discuimentation in food monipud of favoignory

rs, ex The law abelishes discrimination in fees required of for the law about the state of the Russian, Spanish, and all other foreigners except the Canadians, te enjoy all the privileges of our patent system (except in cases of designs) on the above terms.

During the last sixteen years, the business of procuring Patents for Burning the tast states hydrats the outsides  $\phi$  prototing ratios in new inventions in the United States and all foreign countries has been conducted by Messrs. MUNN & CO., in connection with the publication of the SCIENTIFIC AMERICAN ; and as an evidence of the tion of the SULEATIFIC ANEATORY, and as an evidence of the confidence reposed in our Agency by the Inventors throughout the country, we would state that we have acted as agents formore than FIFTEEN THOUSAND Inventers! In fact, the publishers of this paperhave become identified with the whole brotherhood of Inventers and Patentees at home and abroad. Thousands of Inventors for whom we have taken out Patents have addressed to us most flattering testimonials for the services we have rendered them, and the wesiti which has inured to the Inventors whose Patents were secured through this Office, and afterward illustrated in the SCIENTIFIC AMERICAN, would amount to many millions of dollars! We would state that we never had a more efficient corps of Draughtsmen and Specification Writers than are employed at present in our extensive Offices, and we are prepared to attend to Patent business of all kinds in the quickest time and on the most liberal terms.

## The Examination of Inventions.

Persons having conceived an idea which they think may be patent-able, are advised to make a sketch or model of their invention, and submitit to us, with a fulldescription, for advice. The points of novelty are carefully examined, and a reply written corresponding with the facts, free of charge. Address MUNN & CO., No. 37 Park-row, New Yerk

Preliminary Examinations at the Patent Office The advice we render gratuitously upon examining an inve not extend to a search at the Patent Office, to see if a like inventio. has been presented there, but is an opinion based upon what knowledge we may acquire of a similar invention from the records in our Home Office But for a fee of \$5. accompanied with a model or drawing and description, we have a special search made at the United States Patent Office, and a report setting forth the prospects of obtaining a Paten Ac., made up and mailed to the Inventor, with a pamphlet, giving in-structions for further proceedings. These preliminary examinations are made through our Branch Office, corner of F and Seventh-streets, Washington, by experienced and competent persons. More than 5000 such examinations have been made through this office during the past three years. Address MUNN & CO., No. 37 Park-row, N. Y.

### Row to Make an Application for a Patent.

ubcant for a Patent must furnish a model of his invention Every If susceptible of one; or if the invention is a chemical production, he must furnish samples of the ingredients of which his composition consists, for the Pittent Office. These should be securely packed, the inventor's name marked on them, and sent, with the government fees by express. The express charge should be prepaid. Small models from a distance can often be sent cheaper by mail. The safest way to remi money is by draft on New York, payable to the order of Munn & Co Persons who live in remote parts of the country can usually purchase drafis from their merchants on their New York correspondents; but, if not convenient to do so, there is but little risk in sending bank bills by mail, having the letter registered by the postmaster. Address MUNN & Co., No. 37 Park-rew, New York.

#### Caveats.

Persons desiring to file a Caveat can have the papersprepared in th shortest time by sending 2 sketch and description of the inventio The government fee fora Caveat, under the new law, is \$10. A pam phlet of advice regarding applications for Patents and Caveats, in En. glishand German, furnished gratis on application by mail. Address MUNN & CO., No. 37 Park-row, New York. Foreign Patents.

We are very extensively engaged in the preparation and securing of Patents in the various European countries. For the transaction of this business, we have offices at Nos. 66 Chancery-lane, London; 29 Boule vard St. Martin, Paris; and 26 Rue des Eperonniers, Brussels. We think we can safely say that THREE-FOORTHS of all the European Pat-ents secured to American citizens are procured through our Agency.

Inventors will do well to bear in mind that the English law does no limit the issue of Patents to Inventors. Any one can take out a Pa there

Circulars of information concerning the proper course to be pursued in obtaining Patents in foreign countries through our Agency, the re guiraments et different Patent Offices, &c., may be had gratis upon ap-plication at our princips effice, No. 37 Park-row, New York, or either of our Branch Offices

# Rejected Applications.

We are prepared to undertake the investigation and prosecution of respect to the investigation of the transformation of transfo ected cases, on reasonable terms. The close proximity of our Washington Agency to the Patent Office affords us rare oppertunities for the examination and comparison of references, models, drawings, documents, &c. Our success in the presecution of rejected cases has been verygreat. The principal portion of our charge is generally left de pendent upon the final result.

All persons having rejected cases which they desire to have prose cuted are invited correspond with us on the subject, giving a brien history of the case, inclosing the official letters, &c.

Assignments of Patents, and agreements between Patentees and manufacturers, carefully prepared and placed upon the records at the Patent Office Address MUNN & CO., at the Scientific American PatentAgency, No. 37 Park-row, New York.

It would require many columns to detail all the ways in which the Inventor or Patentee may be served at our offices. We cordially invite all who have anything to do with Patent preperty or inventions to call at our extensive offices, No. 37 Park-row, New York, where any questions regarding the rights of Patentees, will be cheerfully answered. ms and remittances by mail, and models by express Comm unicatio

(prepaid), should be addressed to MUNN & CO., No. 37 Park-row, New Vork



J. H. P., of Conn .- It is common to fasten strips of rubber or listing to the jambs of a door to prevent the dust and cold from entering and also to prevent slamming. Nothing patentable in your snggesti

H. J. H., of R. I.-Conical shot having spiral grooves on the cone are not new. The same thing has been shown to us a number of times

J. R. G., of Ky .- By the new law which went into operation in 1861 the Commissioner of Patents is authorized, but not re-quired, to return to their owners the models of rejected applications. But as yet no commencement has been made in these returns. Rejected models are new preserved with much care, in neat cabinets, and when they are two years old they are placed on public exhibi tion. The whole of the new and splendid hall which pertains to the west wing of the Patent Office is new occupied by these models. They are not, as you suppose, "consigned to the bats and moles." Your ideas upon what is needed to obtain patents are not correctly based. The Patent Office is carried on in a much more liberal spirit towards inventors than it formerly was, and it is now rarely that an applicant fails to receive a patent for anything which actu-ally shows invention. It is only when a party has invented nothing new that he is denied a patent

R. S. L., of Ohio.-Water flows from an aperture in the side of a vessel with a velocity equal to that acquired by a body fall-ing from the surface of the water to the level of the aperture. Where the aperture reaches to the surface the velocity is '443 of the theoretical velocity at the lower edge of the aperture, including the allowance for the contraction of the vein. With an opening at the surface 4 inches deep and 24 mches wide, you will have 1.307 could feet per second, equal to 32'2 feet per minute. Multiplying by  $62_{22}'$ you have 5,126 lbs. per minute, which falling 12 feet gives 61,512 foot you have 5,126 lbs. per minute, which falling 12 feet gives 61,512 feet pounds ef work per minute, equal to 1.39 herse power. If your wheel yields 70 per cent you will have 1½ herse power-quite as much as any two herses will actually perform. If your load or re-sistance is constant, a good turbine will be the best wheel for your purpose, but turbines are not recommended where the load is subpurpose, but turbines are not recommended where the load is ject to frequent and "considerable variations.

J. O. M., of N. J.-Blind-hinges have been patented to keep the blinds  $\bullet$  pen without the aid of catches. There are a number of patents for devices capable of accomplishing this. If you

a plan send us a sketch and we will examine it. B. F. Griffin, of Manhattan, Kansas, wishes to open correspondence with patentees or manufacturers of self-adjusting wind

H. R. T., of Conn.-The London Engineer is a valuable jeurnal; you can precure it threagh the agency of Messrs. Willmer & Regres of this city. Bourne's Catechism of the Steam Engine, Intestedition, you will find a useful practical work. We presume you can obtain it of John Wiley, No. 55 Walker street, N. Y.

G. W. S., of Pa.—The firing of the charge at the center has been provided for in firearms and ordnance by various arrange. ments of tubes. In smallarms the yent has been continued forward ments of these. In small marker of the spece how the taper steel tube. In ordnance a tube filled with powder has been inserted at the vent, and such a tube has been constructed with branches to fire the charge at two points. We do not think there is any thing natentable in your invention.

H. O. P., of Mass.-We believe the first Mechanical Re port of the Patent Office was issued by government in 1844. We have no data respecting the first issue of the Agricultural Report. The reports for 1861 are not yet issued. We have no information use of mastic gum in Parisas a substitute for parafilne

O. C. H., of Conn.-Plumbago for electroplating requires to be very pure and fipe. All that has been used in the country has been prepared by one man, Mr. Thoureau, and he has recently died. sold by L. L. Smith, new of College Point, Long Island.

R. P. C., of Vt.-Nearly all of the gold used in the arts is alloyed, and if it is placed in nitric acid the particles of base metal at the surface will be dissolved, leaving the gold, and of course giving the mass the color of pure gold. Probably the white appearance which you observe on the surface when you immerse a lump of gold mp of gold in muriatic acid, results from the silver in the alloy being formed inte the chleride of silver

J. P., of Mich .- The sediment which you find in your maple sugar pans was doubless introduced in the procees of collect-ing or boiling the sap. It was not mingled with the sap in the tree. Photographer, of Pa.—The American Journal of Photowephy, is quoted very largely and with the highest respect by the curopean photographical publications. The editor and proprietor, Prof. Charles A. Seely, is doubtless as theroughly informed in relation to photography and the sciences to which it is allied as any man in the world. The work is published at 244 Canal street, this city, at \$2 per annum.

W. N., of Ill .- The usual mode of igniting gunpowder by electricity is to break the wire within the charge, and connect the ends by a short piece of very small platinum wire. On closurg the circuit the platinum wire becomes red hot, and fires the powder.

J. B. C., of 111.—Davis's Manual of Magnetism is a very plain treatise, though you may find all you want in Weils's Natural Philosophy, or Silliman's Natural Philosophy.

SPECIAL NOTICE-FOREIGN PATENT .- The population of Great Britain, is 33,000,000; of France, 35,000,000; Belgium, 5,000,000, Austria, 40,000,000; Prussia, 20,000,000; Belgium, 5,000,000, Patents may be secured by American citizens in all of these coun-tries. Now is the time, while business is dull at home, to take advantage of these immense foreign fields. Mechanical improvements of all kinds are always in demandin Europe. There will never be a better time than the present to take patents abread. We have re-liable business connections with the principal capitals of Europe. hable business connections with the principal capitals of Americans Nearly all of the patents secured in foreign countries by Americans are obtained through our agency. Address Muun & Co., 37 Park are obtained through our agency. Address Muon & Co., 37 Pa row, New York. Circulars about foreign patents furnished free.

## Money Received

At the Scientific American Office on account of Patent Office business, during one week preceding Wednesday, May 28, 1862:-

H. M., of O., \$25; C. B., of N. Y., \$15; H. M., of Mass., \$10; J. A., H. M., of  $\Theta$ , \$25; C. B., of N. Y., \$15; H. M., of Mass., \$10; J. A., Jr., of Ill., \$25; B. D., of Conn., \$25; W. S. H., of  $\bullet$ , \$15; S. S. B., of O., \$25; J. G. Y. Jr., of Me., \$15; N. K. G., of Conn., \$15; W. H. J., of Ind., \$20; H. W.  $\bullet$ ., of Conn., \$25; W. II. W., of N. Y. \$15; S. E. T., of Wis., \$15; C. A. M., of Pa., \$25; P. & S. of Ill., \$25; C. M. A., of Pa., \$25; J. I. H., of N. H., \$15; W. J. L., of Ind., \$10; H. T. P., of Mass., \$15; A. L. W. of Mass., \$250; J. A. McC., of N. Y., \$20; A. S., of N. Y., \$45; M. & B., of Iowa, \$10; J. B. D., of Conn., \$35; I. R. S., of Va., \$15: W. C., of Pa., \$25; II. M., of N. H., \$25; \$30; I. K. S., • (Va., \$15; W. C., • f Pa., \$25; II. M., • f N. H., \$25; J. E., • f N. J., \$55; G. E. H., • f N. Y., \$25; T. V. N., • f Ill., \$25; W. W. K., α Pa., \$10; B. Bros., • f N. J., \$15; J. H. & G. W. S., • f N. Y., \$15; J. H. & G. W. S., • f N. Y., \$15; J. H. T., • f N. J., \$15; E. C. G., • f Cal., \$50; G. P. B., • f Pa., \$25; W. G. R., • f Pa., \$22; H. C. J., • f Me, \$25; C. O., • f Ill., \$25; R. P., • f Mass., \$35; S. H., • f Pa., \$30; A. R., • f Iowa, \$40; J. P. S., • f Mich, \$25; A. I., • f Pa., \$15; E. T., • f Pa., \$15; F. R. H., • f P. S., • f Mich, \$25; A. I., • f Pa., \$15; E. T., • f Pa., \$15; F. R. H., • f Pa., \$15; F. T., • f Pa. M. C. B., ef Minn., \$15; C. B., ef Iewa, \$15; F. & G., of N.
 Y., \$225; J. M. & W. C. W., ef Iova, \$15; B. R. A., ef N. Y., \$10; J.
 A. McC., ef N. Y., \$25; W. F., of Germany, \$56; G. B. O., ef N. Y., \$15

Specifications and drawings and models belonging to parties with the following initials have been forwarded to the Patent

Office from May 21 to Wednesday, May 2<sup>(4)</sup>, 1862 --[3B. D., of Conn.; G. B., of N. Y.; W. C., of Pa,; J. B. D., of Conn.; J. H. G., of Pa,; W. F., of Germany (2 cases); J. A. MoC., of N. Y.; A. S., of N. Y.; G. R. B., of III.; C. M A., of Pa.; S. & F., of Pa; H. W. O., of Conn.; J. A., Jr., of Ill.; W. M., of O.; W. B. B., of Conn. (2 cases); W. J. L., of Ind.; J. D. C., of N. J., H. M., of N. II.; G. G.

### TO OUR READERS.

Models are required to accompany applications for Patents under the new law, the same as formerly, except on design patents when two good drawings are all that is required to accompany the petition, specification and oath, except the government fee.

PATENT CLAIMS.—Persons desiring the claim of any invention which has been patented within thirty years, can obtain a copy by addressing a note to this office, stating the name of the patentee and date of patent, when known, and inclusing \$1 as fee for copying. We can also furnish a sketch of any patented machine issued since 1853, to accompany the claim, on receipt of \$2. Address MUNN & CO., Patent Seliciters, No. 37 Park Rew, New Yerk

RECEIPTS .- When money is paid at the office for subscriptions, a receipt for it will always be given ; but when subscriper remit their meney by mail, they may consider the arrival of the first paper a *bona fide* acknowledgment of our recevition of their funds.

INVARIABLE RULE .-- It is an established rule of this office to stop sending the paper when the time for which it was pre-paid has expired.

NEW PAMPHLETS IN GERMAN.-We have just issued a revised edition of our pamphlet of Instructions to Inventors, containing a digest of the fees required under the new Patent Law, &c., printed in the German language, which persons can have gratis upon a<sup>D</sup> pli-cation at this office. Address MUNN & CO., No. 37 Park-rew. New York.

Back Numbers and Volumes of the Scientific American. VOLUMES I., II., III., IV., V. (NEW SERIES) COMplete (bound or unbound) may be had at this office and from all periodical dealers. Price, bound, \$159 per volume, by mail, \$2-which in-cludepostage. Price, in sheets, \$1. Every mechanic, inventor or ar-tizan in the United States should have a complete set of this publication for reference. Subscribers should not fail to preserve their numbers for blaing. We are prepared to bind volumes in handsome covers, with illu

minated sides, and to furnish covers for other binders. Price for binding, 50 cents. Price for covers, by mail, 50 cents; by express, o delivered at the office, 40 cents