Corn cutting Machine.-This invention relates to a mechanism, in such manner that they may be adjusted new and improved machine for cutting up standing corn stalks on the field, and consists in the employ. ment of a rotary cutter wheel fitted within a swinging frame which is provided with an adjustable weight, in combination with a supplemental swinging frame which is connected to the swinging cutter frame, both of the swinging frames being suspended within a frame mounted on wheels. The invention also consists in the employment of gathering-hooks in connection with springs ; and further, in the employment of a windlass attached to the main frame of the machine, for the purpose of raising the swinging frames, and elevating the rotary cutter above the surface of the ground when said cutter is not required for use; as, for instance, in drawing the machine from place to place, in turning the same, &c. G. W. Cole, of Canton, Ill., is the inventor of this improvement.

Hemp Machine.-This machine relates to an improvement in that class of hemp machines which are principally used for the purpose of dressing the leaves of the agave Americana, and other plants of a similar nature. The invention consists in the employment of a cone drum carrying a series of combs and working within or under a cone cap, in such a manner that by the gradually increasing speed of the surface of the cone, from the small to the large end of the same, the leaves are caused to roll over the entire surface of the several combs, and the fiber is completely cleaned and discharged from the machine without difficulty; the invention consists, further, in the employment of combs with teeth of gradually increasing fineness, from the small toward the large end of the cone pulley, for the purpose of producing the best possible action of said combs on the fiber and the invention consists finally, in giving to the feed rollers an oblique position in relation to the main shaft of the drum, in such a manner that, by the action of said rollers, the leaves are forced from one end of the drum toward the other, and the fibers are prevented from being retained in the same teeth of the combs, from beginning to end of the combing operation. George Ehrsam, of 76 Elm street, New York, is the inventor of this improvement.

Machine for cutting and boring Rock.—Heretofore the boring of rock has been generally accomplished by the use of a chisel, punch, or boring bar operated by percussion. This invention consists in a boring tool composed of a series of diamonds attached to an annular or tubular stock or crown of steel or other metal, to which a rotary and a direct forward motion are given, and which is thereby caused to cut or bore an annular groove or hole, leaving a central core or kernel which is easily detached by the subsequent operation of a gad or wedge, the quantity of matter required to be removed by such boring tool being very small in proportion to the cavity which is formed after the withdrawal of the said kernel or core. The advantage of this boring tool is, that it may be operated with a small amount of power, is expeditious in its action, and its wear is almost imperceptible in operating upon the hardest substances. J. R. Leschot, of Paris, France, is the inventor of this implement.

Wagon pole Check-arrester. - Almost every person has noticed the annoyance and distress experienced by horses when drawing a wagon over rough and uneven roads, occasioned by the incessant twitching and jerking of the pole laterally; this occurs, especially, when the wheels suddenly descend into gullies, or strike abruptly against stones or ridges in the roadthe sudden vibrations of the pole jerking the horses first in one direction, then in another, galling their necks, and sometimes producing strain almost sufficient to throw them off their feet. This invention seems well adapted for obviating such difficulties. It consists in applying a spring to each hold-back chain or strap, which is arranged in such a manner that the chains or straps may perform their usual functions, and still be capable of yielding sufficiently to prevent, or ease, in a great measure, the violent jerking of the draught pole. The invention is simple, and easily attached to any harness, and we have heard it recommended in high terms by those who have used it. James McNamee, of Easton, Pa., is the inventor of this device.

Punching Machine.-This invention consists in the combination of two punches with the same driving at different distances apart, to provide for the punching of plates of various widths at opposite edges simultaneously. It also consists in the employment, in combination with two such punches, of an inter mittently moving carriage, so arranged as to present the plate to be punched to both punches, in such manner as to cause the punching of the holes in both edges of the plate at the required distance apart. It also consists in certain means of moving the plate carriage in different curves, for the purpose of punching the holes in curved lines, to suit the curvature of the edges of the plates required in making a boiler in conical sections. And it further consists in certain means of producing a variable feed of the carriage. H. W. Bill, of Cuyahoga Falls, Ohio, is the inventor of this improvement.



ISSUED FROM THE UNITED STATES PATENT OFFICE FOR THE WEEK ENDING JULY 14, 1863.

Reported Officially for the Scientific American

*** Pamphlets containing the Patent Laws and full particulars of the mode of applying for Letters Patent, specifying 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.

Screw-driver .-39,206.—Screw-driver.—J. A. Ayres, Hartford, Conn.: I claim, first, A screw-driver, formed or composed of a shank, B, slotted lorgitudinality and provided with a set screw, C, and a de-tached or removable bit or turn-screw, D, substantially as set forth. Second, Having the bit or turn-screw longitudinally with a lateral projection, c, or an equivalent device or arrangement, so that the prongs will be thrown out of line with each other by screwing up the set screw, C, made to bind in the slot, f, of the screw, substan-tially as herein described. Third, The reversible bit or turn-screw, D, provided at one end with the two lessite or yielding prongs, b b, and at the other end with the ordinary turn-screw, a, so that either may be used as desired. -J. A. Ayres, Hartford, Conn. :

[This invention consists in the employment of a bit or turn-screw and a shank, constructed and arranged in such a manner that the bi or turn-screw may be readily and firmly secured in the shank, and the ormer rendered capable of being firmly secured or held in the slot of the screw, so that the latter may be made to enter the wood, and red into it without the application of the hands to the screw The bit is so constructed and arranged as to be reversible, of being formed in the ordinary way, or like a common screw-driver or screw, and the other end being constructed in a novel way so as to bind in the slot of the screw.]

39,207.-- Sewing Machine.--C. W. Baldwin, Boston, Mass.: I claim the vibraing bars or levers, N and O, as operated by the eccentrics. F and G, by means of the bands, H and I, the rods, J and K, and the studs, L and M, or their equivalents, in combination with each other and with the loops or lower needle, operated as above de-sortbed and for the purpose herein set forth.

39,208.—Bottle-stopper.—Chas. F. Baxter, Boston. Mass. Ante-dated Jan. 16, 1863 : I claim. first, an elastic stopper, having a hollow or cavity opening hot the end entering the bottle, substantially as shown and de-39.208

scribed. Second, I claim the combination of a stopper having said cavity opening into the end entering the bottle, b, and shoulder or enlarge-ment, c, substantially as shown and described. Third, I slos claim the combination of a stopper having aid cavity in the end described, and shoulder or enlargement, with a bottle bay-ing a corresponding groove, d, substantially as shown and described. 39,209.—Punching Machine.—H. W. Bill,Cuyahoga Falls,

39,209.—Punching Machine.—H. W. Bill, Cuyahoga Falls, Ohio:
Ieism, first, The combination of two punches with the same driving mechanism, in such manner that they may be adjusted at different distances apart, to provide for the punching of plates of various within at opposite edges or in two lines simultaneously, substantially as herein described.
Second, The employment, in combination with two punches adjusted at different distances apart, of an intermittenity-moving carringg, so arranged as to present the plate to both punches in such manner as to cause the punching of the holes in both edges of the plate, or in straight or curved distance spart, substantially as herein specified. Third, The employment, in combination with two punches, arranged as described, for guider oflers operating in combination with a straight or curved lines, as may be described, of a variable system of the plate carriage of the plate as the substantially as here as of a rack with radiating tech, as shown in figure 6, and a laterally movable pawl, operating in combination with such manner 6, and a laterally movable pawl, operating in combination with such rack, substantially as here a peedfied.
39,210.—Apparatus for tempering Umbrella Ribs.—A. S.

rack, substantially as herein specified. 39,210.--Apparatus for tempering Umbrella Ribs.--A. S. Black, New York City : I claim, first, constructing the tempering die with a square hole, corresponding in size to the wire to be tempered, in order that the wire may be straighteued in all directions, and the flattened portions of the wire be brought on line with each other, as and for the purposes reacting.

specified. Second, I claim constructing the tempering die with grooves, in one of the half pieces coming opposite the flat surface of the other half piece, whereby the tempering dies are more easily made and kept in order, as set torth. Third, I claim the tempering dies, constructed substantially as speci-fied, and inclosed in a suitable casing in combination with gas burn-ers, applied substantially as shown, whereby the temperature of the said tempering dies is easily regulated and maintained with uniformi-ty, as set forth.

39.211. -Skid for discharging and loading Vessels.-Rob-

ert Bragg, San Francisco, Cal: I claim the construction and application of the circular arc, B, as attached to the skid, A, operating substantially as described and for the purposes set forth herein.

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39,212.-Washing Machine.-A. G. Brown, Lima, Ohio : I claim the combination of a stationary washing tub with a re-rocating washing board under the arrangement, and for opera substantially as herein set forth.

substantially as herein set forth. 39,213.—Manufacture of Alkaline Carbonates.—Lasslo Chandor, New York City: I claim, first, The formation of the carbonates of potash and soda by the transformation of the sulphurets of potas ium and sodium into blarbonates of the same bases, by the process and substantially in

of the san described. Broughaves of an annual sector of the sulphuret of sodium by the de-second, The manufacture of the sulphuret of sodium by the de-mposition of the sulphuret of barlum, substantially in the manner

Second, The manufacture of the sulphuret of socium by the de-composition of the sulphuret of barium, substantially in the manner described. Third, The manufacture or production, by the process described, of the sulphate and carbonate of bary ta. Fourth, The use of limes for the purpose and in the process de-sertiond

scribed, 39,214.—Corn-stalk Cutter.—G. W. Cole, Canton, Ill.: I claim, first, The combination of the two swinging or adjust frames, E. F. attached to the frame, A. sand to eech other, as sho and provided respectively with the cylinder of cutters, H, and foot board, G, arranged substantially as and for the purpose he set forth.

Second, The adjustable bar or weight, I, applied to the frame, E, substantially as shown and used in connection with the curved rod, J, staple, f', and pin, b, or an equivalent fastening, for the purpose herein set forth. The adjustable hooks, N N, in combination with the springs, O O, arranged substantially as and for the purpose set forth. Fourth The windlame, L, applied to the frame, A, in combination with the trames, E F, for the purpose specified

with the frames, E F, for the purpose specified. 39,215.—Machine for loading Hay.—Gorden Constable, Canonsville, N. Y.: I claim the silding endless rakes, E E, in the framing, A, in com-bination with the pinlons, d* on the axie, D, of the wheels, B, all arranged to operate substantially as described. I also claim the rolier, L, fitted between the lower ends of the rack bars, 1, arranged substantially as shown, when said roller is used in combination with the endless rakes, Q A', and the wagon, J, for the purpose specified. I further claim placing the rake, Q, in a vertically adjustable frame, P, arranged as shown, to admit of the adjustment of said rake rela-tively with the ground, as set forth, and also for the purpose of ren-dering it operative, as described.

[The object of this invention is to obtain a machine by which hay may be raked up from the field, and deposited upon a wagon as the latter is drawn along, all the working parts being operated from the traction wheels of the machine.]

39,216.—Projectile for Rifled Ordnance.—H. E. Dimick, St. Louis, Mo.: I claim the construction and shape of the steel and wrought-iron front, in combination with the lead and cast-iron portion, as arranged with the bands, N and P, for the purpose of giving the projectile per-fect rotation, and making it more certain in its action, as herein de-scribed.

39,217.—Buckle.—Frank Douglas, Norwich, Conn. : I claim the swinging frame, A, in combination with the sta loop, e, socket, B, and tongue, D, substantially as herein spestationary

39,218.— Defensive Armor for Marine and other Bat-teries.—J. B. Eads, St. Louis, Mo.: I claim the employment of the angle-iron bars, g. in combination with the armor plates, E, and dowel juns, f. constructed and arranged as herein described and represented, for securing the arm or of war-vessels, and making a system of breaking joints, substantially as here in set forthand represented.

39,219.—Hemp Machine.—George Ehrsam, New York

39,219.—Hemp Machine.—Groupe Zerren, City: First, I claim the employment or use of a conical drum, A, carrying a series of combs, F, and working within or under a cone cap, G, in the manner and for the purpose substantially as herein shown and described. Second, Discharging the clean fibers over the large end of the cone drum, A, through the open side of the cap, G, in the manner and for the purpose substantially as specified. Third, Making the teeth of the combs, F, of gradually-increasing fineness, from one toward the other end of the drum, as and for the manner set forth.

urpose set forth. Fourth, Giving to the feed rollers an oblique position in relation to he main shaft of the drum, substantially as and for the purpose

39,220.-Machine for dressing Chair Backs.-S. L. Fitts,

39,220.—Machine for dressing Chair Backs.—S. L. Fitts, Ashburnham, Mass.: I claim, first, The reciprocating segment bed, E, placed on the ad-justable way, B B, and operated substantially as abown, in combina-tion with the pressure rollers, M, and the rotary cuiter, N, all ar-ranged as and for the purpose specified. Second, The arrangement and combination of the shaft, X, provided with the came, Y, ithe arm, W, pawi, V, ratchet, U, the levers, P A', cam, T, socket, H, with pin, Q, the spring, ton the journal of the cuiter, N, and plins, II, at the side of the bed, E, all arranged as and for the purpose herein set forth.

[This invention consists in the employment of a reciprocating segnt carriage placed on an adjustable bed, in connection ry and vibrating cutter head and pressure rollers, all arranged to effect the desired end.]

39,221.—Beehive.—W. A. Flanders, Shelby, Ohio: I claim, first, The semicircular comb frames, A, in combination with a semicircularcase, B, arranged as and for the purpose speci-fied.

nea. Second, I claim the sand board, E, which forms a partition between the combframes and honey boxes above, constructed as and for the

the combirances and honey boxes above, constructed as and for the purpose set forth. Third, I claim the moth traps, F, in combination with the adjusta-ble bottom board, G, arranged and operating in the manner and for the object described. Fourth, I claim the adjustable front entrance, H, in combination with the moth box, I, arranged and operating as specified.

when the moun out, 1, arranged and operating as specified. 39,222.—Adding Machine.—G. B. Fowler, Chicago, Ill.: I claim the arrangement of the apertures, b, in the under side of the platform or bed, A, to operate in combination with the figures on the underside of the slides, B, and with said slides, strips, C, and caps, D D', in the manner and for the purpose herein shown and de-scribed.

[An engraving and full description of this invention will be published in the Scientific American in a few weeks.]

39,223.—Lock and Bolt.—E.O. Brink and C. E. McDonald,

39,223.—Lock and Bolt.—E. U. BTIIK BHU U. E. MULLER, Indianapolis, Ind.: We claim, first, The bolt, F, when the same is constructed and op-erated substantially as set forth. Second, The knob, S, when the same is constructed and operated substantially as set forth. Third, The annularplate, E, and the bent wire, b b', when thesame are constructed and operated substantially as set forth, or any other substantially the same. Fourth, The secucheon tube, 18, when the same is constructed as afore aid, combined with the aid key, No. 12, and the seld spring, k k, otherwise substantially as set forth. Fifth, The said key, No. 12, when the same is constructed and op-rated in manner and for the purpose as aforesaid, or any other sub-stantially the same.

erated in manuer such as a such as a such as the same such as the same. Sinth, The same are constructed and operated substantially as set when the same are constructed and operated substantially as set

Some are constructed and operated substantially as set forth. Seventh, The shank, $\mathbf{A} A'$, of the said knob, 8 S, when the same is constructed and applied substantially as set forth. Eighth, The said file-faced tumbler, 11', when the same is con-structed and operated substantially as set forth. Ninth, The slot, $\mathbf{z} \mathbf{z}$, of the said escutcheon tube, when constructed and applied substantially as set forth. Tenth, The lock, as a whole, when the same is constructed and operated substantially as set forth.

33,224.—Carriage Spring.—C. B. Galentine, Brooklyn Center, Ohio: I claim the application of a self-adjusting triangular brace to land carriages, in such a manner as to retain the parts of the springs and their attachments in their proper relations, and thus to secure the parts from undue strain or breaking by the motions of the carriage.

wich, Conn.: I claim, first, The raising the feed rolls combined, each end inde pendent of the other, by the use of the crank screws, M and K, by which the rolls are tilted to any required angle from a horizontal position, in order to bear on beveled stuff, to feed it through under the stuffer of enters. osition, in olls and co

position, in order to be a value of the frame, B, with the columns, C C C Second, The combination of the frame, B, with the columns, C C C C, the top-frame, S, the bolts and nuits, b b b, with the arrange-ments for belding, guiding, and giving pressure to the rolls, substan-tially as and for the purposes specified, the whole forming a neat and convenient frame for use in the manuer and for the purposes herein manifed. specified Third,

beckfed. Third, The arrangement of the boxes, $D \ D \ D$, the spring, G, and is crods, N N, sliding in the slots, $P \ P$, to adjust themselves to any osition of the rolls. the 39,227.—Manufacture of Illuminating Gas.—W. H. Gwynne,

White Plains, N. Y.: I claim carbonizing hydrogen gas, by passing it through a sufficient quantity of anthracite coal to render it ht for illuminating purposes, substantially as described.

39,228.—Cut-off Valve Gear for Steam Engines.—J. F.

39,228.—Cut-off Vaire Gear 107 Octain Engines.—v. r. Hamilton, Pittsburgh, Pa.: I claim the arrangement of the regulating arms, h. lifters, i, spring, g. frames, m andc, arms or levers, J and n, when used in connection with the governor and rock shaft or eccentric of angines, the whole being arranged, constructed and opera ing substantially as herein de-scribed, and for the purpose set forth.

scribed, and for the purpose set forth. 39,229.—Variable Cut-off Valve Gear for Steam Engines. —J. F. Hamilton, Pittsburgh, Pa. : I claim the arrangement of the lifters, i, triggers, k, spring, l, reg-ulating arms, h, arms or levers, m and n, and link, d, when used in connection with a governor and nock shaftor eccentric of engines, the whole being arranged constructed and operating substantially as herein described, and for the purpose set forth. 39,230.—Raling Press. Leach Horizon, Kuthar

herein described, and for the purpose set forth. 39,230.—Baling Press.—Jacob Harder, Lock Haven, Pa.: 1 claim operating the follower, B, through the medium of the lever, D, provided with the sliding pawls, h h, and connected to the follower rod, C, by a joint, the pintle, f, of which works in sinuous grooves, d d, between racks, c, arranged one above and the other below the follower rod, O, substantially as and for the purpose herein set forth. [This invention consists in operating the follower of a press box

through the medium of two double racks with a sinuous groove be them, in connection with a lever provided with two sliding pawls, arranged with springs and connected to the outer end of the follower rod by a hinge or joint, the pintle of which works in the sinuous groove between the two racks, all being so arranged that good leverage power is obtained, and one that may be operated with facility.]

39,231. — Fence. — H. G. Hood, Harlan, Ind. : I claim the arrangement with the battens, B B, slotted and notched as shown, and the boards or rails, a s, of the fastening pin, E, the bereled braces, D D, and ring, e, when all the parts are constructed as herein shown and described.

[This invention relates to an improved fence of that class which ar, designed for temporary erection, or to be readily put up and taken down, and are commonly termed portable fences. The invention consists in a novel and improved means employed for receiving the sections or planks of the fence together, and bracing the same and retaining it in a vertical position.]

39,232.-Breech-loading Fire-arm.-C. W. Howard, Ham

SJ,202.-Dreech-loading rire arm.-O. w. Howard, Ham-monton, N. J. : I claim the construction of the cylinder, C, with countersunk re-cesses at each end of the charge chamber, as herein shown and de-scribed, so that said cylinder, although rotating in one direction, may be loaded with cartridges at either end of the chamber, all as set coath

forth. I also claim the combination of the oscillating ratchet bar, k, lever, ij, and rod, h, with the hammer, F, and the ratchet wheel, t, in the manner herein shown and described. [This invention consists in the construction of a fire-arm with a ver

tical cylinder having a single chamber extending directly through it at right angles to its vertical axis, and so arranged within a suitable block in rear of the barrel, that, by turning it to bring its chamber at right angles to the line of the barrel, it may be loaded at each end of the chamber alternately, and by the act of loading at each end, the discharged case or shellof the previously-inserted cartridge may be expelled at theotherend. It also consists in a certain mode of ccm biningsuch cylinder with the hammer of the fire-arm, whereby it is

brought to the position for loading when the hammer is at half-cock and for firing when the hammer is at full-cock.]

39,233.—Machine for making Cement Pipes.—John Howarth, Salem, Mass.:
I claim forming the exterior of the pipe, and holding and sustaining it while being so formed, upon its rod or shaft, by means of two lateral rollers, operating therewith substaintially as described.
Also in combination with the two lateral rollers operating upon the pipe as described, I claim the top or third roller, i i, for the purpose specified.

39.234 -Grain Binder.—Josiah Judevine & Zebulon Shaw

[The object of this invention is to produce a grain binder, which will enable two men to complete the binding of the grain as fast as the reaper will cut; one man being required to take the grain from the platform of the reaper to the gatherer of the grain binder, and the other to operate the different parts of the binder.]

39,235 .- Tool for Boring Rock .- Rodolphe Leschot, Paris

France: I claim the tool for boring or cutting rock or other hard substance composed of an annular or tubular stock or crown, armed.with series of diamonds, and operating substantially as herein specified.

39,236.—Device for preventing Retrograde Motion in Sewing Machines.—Wm. F. Lewis, Watertown, Cohn., and Joseph H. Baird, Waterbury, Conn.: We claim the combination with a rotating hooked mandrel C, for carrying the thread around a bobbin. of a ratchet wheel, E, and operating substantially as described, and for the purposes set forth. 39,237.-Hose or Tubing.-Thomas J. Mayall, Roxbury,

Mass.: I claim forming a hose or tubing, by first saturating or incorporating threads of strands of fibrous materials, rubber or gutta-percha, 0. ompounds of either or botb, and then weaving or braiding the same abstantially as set forth.

39,238.—Man facture of Elastic Hose or Tubing.—Thomas J. Mayall, Roxbury, Mass.: I claim a hose or tubing, in which the periphery of one or more of its layers is formed by weaving or braiding upon an inner tube or lining, an outer tube made of twine, wire, or other strands or threads, "ubstantially as set forth.

39,239.—Chain Link.—James Packer, New York City: I claim a chain link, A, made of two parts, B C, united by two swyrels, D, in the manner and for the purpose, substantially a shown and described.

This invention consists in a link made of two distinct parts, which

are united by two swivels, which screw n the ends of the parts of the link in such a manner that in case an ordinary link of a chain breaks while the same is stretched and in use, one part of any link can be slipped into one, and the other part into the other link adjoin

ing the broken link of the chain, and by drawing the two parts of the same together, the chain is restored without slacking it, or taking off the strain to which the same had been subjected previous to the part ing of the link.]

39,240.—Amalgamator.—August F. W. Partz, Wurtsboro

N.Y: I claim, first, A current of mercury moving over a horizontal or inclined surface, uponw hich surfare argentiferous ores, or sub-stances in a dry pulverulent state are distributed, to effect their amal-gation as specified. Second, I claim amalgamating gold and silver with mercury, by cataing the former to come in contact with the latter, while bassing in a thin strata over an inclined metallic plate or trough, the surface of which is amalgamated with mercury, the down-lowing mercury being drawn away from below the surface at the delivery end of the said plate or trough, and re-elevated to the higher end thereof, sub-stantially as set forth. Third, I claim a current of water or air in combination with a flow-ting sheet of mercury, for removing the tailings, the pulverized or being distributed on such sheet in a dry state, substantially as speci-fied.

Buy instributed to such such in a ur y using the sufficient of the n which order the sollow

set forth. Fith, I claim distributing surferous or argentiferons ores, or sub-stances in a dry state upon a moving sheet of mercury (for the pur-pose of effecting their simalgamation), by means of vibrating sieves or screens, substantially as specified.

39.241.-Straw Cutter.-John G. Perry, South Kingston,

K. 1.: I claim, first, The cylinders provided with alternating knives, and projections, 3, when constructed as described, and for the purpose set forth.

forth. Second, I claim a straw cutter having two or more of said cylin-ders, constructed as described, and working in combination in the manner and for the purpose set forth. Third, I claim attaching the rolls to the frames of straw cutters, by means of dovetail, e, and recess, u, in the manner and for the pur-pose set forth.

39,242.—Hay Cutter.—John G. Perry, South Kingston, R. I. Ante-dated May 13, 1863: Iclaim. first, The combination of the adjusting screw, S. gears, DC, and hub, o, with the cylinders, for the purpose herein set forth. Second, I claim the combination of the lock with the hay cutter substantially as herein described, and for the purpose set forth.

39.243.-Meat Cutter.-John G. Perry, South Kington, R. L.

I claim the combination of the slotted plate, S, with the knives, t x, substantially as herein described, and for the purposes set forth. 39,244.—Sausage Stuffer.—John G. Perry, South Kings-ton, R. L: I claim the combination of the eam, D, and plate, L, substantially as hereindescribed, and for the purposes set forth.

as hereindescribed, and for the purposes set forth. 39,245.—Water Elevator.—Stephen Puffer & Andrew J. Bands, 2d, Oxford, N. Y.: We claim the longitudinally sliding, self detachable crank, H, when arranged and combined with the toothed coupling wheel, G, of the windlass shaft, C, substantially in the manner and for the purpose herein set forth. We also claim the self-detachable sliding crank, H, the toothed coupling.wheel, O, the windlass shaft, C, the rigidly united brake, lever, and park, L and M, the subtomatic, acif discharging bucket, N, and the windlass drum, E, of our improved water drawing pupratus, when said parts are arranged and combined with exch other sub-s antially in the manner and for the purpose herein set forth. 39,246.—Resech-Inading Finanzer Worthor, Thistory Publicated States and States an

39,246.—Breech-loading Fire-arm.—Westley 'Richards, Birmingham, England : I claim the combination of the hinged cover and lever, c, carrying the sliding block, d, and its projection, d2, and pivoted or yielding plug, e, with the chamber, b, and its aperture, b', in the manner and for the purpose herein described and represented.

39,247.—Skate.—Jacob Frederick Schneider, Brooklyn, N. Y: Iclaim, first, The forked runner substantially as described. Second. The what is convicted to the second second

N.Y.: I claim, first, The forked runner substantially as described. Second, The wheel in combination with the forks of the forked run-ter, substantially as described. Third, I claim securing the leathers within the two part stock, by nears of the wires, f, and jogs in the recesses, g, in the manner

specified. 39,248.—Paddle Wheel.—Francis B. Scott, Buffalo, N. Y.: I claim, first. The bucket, C, attached to the arm, C', at any given angle thereto, the arms being hinged to the wheel near the pumping thereof, and geared by an eccentric, which is supported by the boat, for the purpose and substantially as described. Second, Making the wheel with compariments, al, leaving an open space, al, between each, through which space the bucket advances and recedes, for the purposes set forth and shown in the drawings.

and receases, for the purposes set form and shown in the drawings. 39,249, — Raking Attachment to Harvesters.— Benjamin Smith, Batavia, III.: In combination with a rake that is operated by a crocked-necked crank, and a flexible or ball and socket connection, and rolled up upon a guide-piece, F, a self-connecting and disconnecting catch, I, that holds the rake up as tecrata in interrais, and allows it to drop upon the platform, when about to clear it of the cut grain, substantially as described and represented.

39.250.—Sad Iron.—Nathaniel Waterman, Boston, Mass. 39,200.—530 IFOD.—Nathaniel Waterman, BOSIOD, Mass.: I claim an improved smoothing or sad iron, as made not only with a round heel and a plane surface bottom and a pointed or angular toe, but with the sides making an angle with the bottom, and with the top or upper surface rounded at and above the toe and the heel, and both longitudinally and laterally, in manner as shown in the ac-companying drawings, and substantialiy as described.

companying drawings, and substautisily as described. 39,251.—Machine for Collecting Amalgam and Mercury from Ore Pulp.—Zenas Wheeler, San Francisco, Cal.: I claim the tub, A, provided with the concave bottom, a, and cham-ber, b, in combination with the rotating pads, L, as and for the pur-pose specified. I further claim in combination with the pads, L, concave bottoms, a, and chamber, b, of the tub, A, the tubular shaft. H, and arms, k, all arranged for joint operation, as and for the purpose specified.

all arranged for joint operation, as and for the purpose specified. 39,252.—Machine for turning Umbrella Hooks or Han-dles.—Henry Winter, Honesdale, Pa.: I claim, first, The revolving cutter-head with a gouge shaped cutter, and with a center opening that is flarmg or trumpet mouthed on each slde,for dressing curves or hooks on umbrella sticks and other articles, substantially as specified. Second, I claim the mode of constructing the stock, a, and cap, c, for receiving and sustaining the rotating cutter head as set forth. Third, I claim the adjustable fence, k, in combination with the re-volving cutter-head, e, for the purpose and as specified.

ang cutter-neaa, e, tor the purpose and as specified. 253.—Hinged Collar for Lamps.—George F. J. Col-burn, Newark, N. J., assignor to Lemuel Beers, New-town, Conn.: claim, first, A hinged collar, a f, adapted for application between lamp top, t, and neck, m, opening to a limited extent to afford di-access to the reservoir below the burner, and held in its open tion by the weight of the chimney, all as herein shown and ex-ned. e lamp t ct acces

blained. Becond, The combination of the fastening, e, and bandle, i, ar-anged and operating as specified. [Thisinvention is designed to obviate the necessity of displacing all

prany of the fixtures of a kerosene lamp, in order to raplenish the oil in the reservoir. By a very simple and cheap contrivance applicable to any burners now in use, a fresh supply of oil may at any time be introduced, even without extinguishing the light. An illustration and description of the invention will shortly appear in our paper.] $_{\rm i}$

77

39,254.—Explosive Shells for Ordnance.—Thomas Harding, Springfield, Ohio, assignor to Thompson D. Hart, Philadelphia, Pa.:
 I claim the combination of the grooved heads, A and B, tail-piece, C, stem, D, chamber, E, and fianged segments, F, when the whole are constructed and arranged as herein described, for the purpose set forth.

39,255.—Rice Cleaner.—Lucius D. Hawkins, San Francisco, Cal., assignor to Alfred Peabody, Salem, Mass.: I claim the construction of the wire cloth covered frames, E, in wo or more parts, and made adjustable substantially as set forth for he purpose specified.

as you pose specificit.
 39,256.—Sewing Machine.—Leander W. Langdon (assignor to himself and Daniel G. Littlefield), Northampton, Mass.:
 I claim, first, Combining with the mechanism which gives the feeding motion is the feeder, I, a reversing lever, j, or its equivalent, by means of which the direction of the feeding motion of the feeder substantially as described.
 Second, Combining with the mechanism which gives the feeding

may be reversed, or the length of the subtract any used substantially as described. Second, Combining with the mechanism which gives the feeding motion to the feeder; the catch lever, e, or its equivalent, operating substantially as described, by which the feeding motion is arrested at each alternate operation of the needle. Third, Imparting the vertical or engaging and disengaging motion to the feeder, by means of the hook, T_a substantially as described.

39.**2**57. -Refining Ore .- John L. Constable, New York

City: City: I claim refining orea by the use of super-heated steam in a furnace, unstantially in the manner described. And I also claim the gage covered wheel, revolving Partially in water, u the manner and for the purpose specified.

39,258.—Hay Press.—Levi Dederick, Albany, N. Y.: I claim the arrangement and combination of the follower, with beams projecting through the sides of the press, and the toggie levi located and operating at the sides of the press, substantially as a for the purposes herein specified.

for the purposes herein specified. 39,259.—Pump.—Birdsill Holly, Lockport, N. Y.: I claim, first, The valve ring or support, B, provided with the ribs, e, or equivalent, and with one side, f, made lighter than the other, for the purpose of retaining said support in place in the cylinder, substantially as herein set forth. Second, in combination with the support, B, and its valve, C, I also claim the thin raised valve seat, d, arranged substantially as de-scribed.

claim the thin raised valve seat, d, arranged substantially as de-scribed. Third, I also claim the inclined, inductive valve, C, so formed that when Upped for the admission of the water, its upper surface will assume a horizontal position, or approximately so, substantially as herein set forth. Fourth, In combination with the induction valve, C, I also claim the eduction valve, E, provided with a stem, r, and the piston, D, ar-ranged and operating substantially as specified. Fifth, I also claim the arrangement and combination of the piston, D, composed principally of the parts, ik, the valve, E, the piston rod, G, and nut, P, substantially as and for the purpose herein set forth-

39,260.-Hold-back for Wagons.-James McNamee, Easton. Pa.:

ton, Pa.: I claim the combination of the rod, C, spring, D. cross-bars, c g U. shaped in K, B, chain, A, and ring, f, when the said parts are con-structed and arranged as herein specified, and the whole employed as described, to arrest sudden isteral motions of the forward end of the

_Marking Brand._George H. Strong, Buffalo, 39.261.

N. Y: I claim making the brand in two pieces, when one of the pieces is rovided with flanges or projections, between which the other piece hay be slid and then held itst by screwing in the handle, as here in ubstantially set forth and described. 39,262.—Grain Separator.—Henry B. Thomas, Cascade,

39,202.—Utalin Deparator: Internet in the second se

the purpose her in set forth.
39,263.—Dog Power.—Franklin Cole. Conesus, N. Y., assignor to Wm. P. Hendershott, Groveland, N. Y.:
I claim the combination of an inclined revolving platform. A, with an oscillating jever. O (by means of a regular series of projections, M. ynon said platform, and one or more friction wheels, N N', upon said lever. O, or their equivalents), substant ally in the manner and for the purpose herein set forth.
I claim also the peculiar arrangement of the friction wheels, N N', in combination with an oscillating lever. O, and a regular series of projections, M. ynon an inclined revolving platform. A, substantially in the manner and for the purpose herein set forth.
39, 264 — Hay Loader.—Curring B. Coalinghouse the transmission of the mainer and for the purpose herein set forth.

iially in the manner and for the purpose herein set forth.
39,264.—Hay Loader.—Cyrus B. Garlinghouse & John Dickason, Allenville, Ind.:
I claim, first, The floating hay carrier, I J, constructed, supported, and operating in the manner and for the purposes apsciedd.
Second, Connecting the floating or self-adjusting carrier of a hay loading machne with the mash rank of the lower stretcher and the ground wheels, by which the lower end of the carrier is permitted to adapt itself to inequalities of the ground without affecting its connections with the self-adjusting or floating hay carrier, of fingers, F, variable in the self-adjusting of floating hay carrier, of fingers, F, variable in their pressure upon the ground, substantially as described.

tially as described. Fourth, In the described combination with carrier, I J, and fingers, F, or their equivalents, we claim the provision of reciprocating rakes, W W', adapted and operating substantially as set torth.

City: I claim the manufacture and use of a transparent or translucent flexible fabric or material com posed of wire weighing or its equivalent and a transparent coating or coatings, all substantially as herein set forth and described.

RE-ISSUES.

RE-ISSUES. 1,511.—Machine for gathering Hay.—F. F. Fowler, Crane Township, Ohio. Patented Jan. 22, 1861 : I claim, first, Connecting the side and cross-pieces of the machine together by flexible or yielding joints, so that either side of the ma-chine may rise or fail in yielding to the inequalities of the ground, independent of the other side, substantially as described. Becond, I also claim constructing and combining the fingers with the runners and supporters, and mutually side and be aided by, the runners and supporters, and mutually side and be aided by. Third, I also claim the combination of a hinged toog e, a twining inger bar, and the factibly connected runners, so that as the machine is raised behind, it may roll down in fronton the curve of the runners herein described. 1,512.—Car and Trunck Correction

herein described. 1,512.—Car and Truck Connection.—Josiah J. Sherman, Albany, N. Y. Patented April 14, 1863: I claim, first, The employment or use of balls, E, or rubbers, F', interposed between the trucks and the car body, in suitable boxes, when the said parts are constructed and combined, in the mancer herein specified, se as to permit free motion of the car body in laterally in either direction, and afterwards restore it automatically fo its nor-mal position.

In filter unrection, and also inside results results to the task main position. Second, The combination of the annular springs, g, with the bear-ings, efg bij, or any of them, when arranged to operate in the manner and for the purposes hereinspecified. Third, The combination of the annular springs g, with the bear-ings, efg bij, or any of them, or the mechanical equivalent of ead springs, when used in connection with the balls, E, or rubbers, \mathbf{F}' , to restrain or qualify their action, substantially in the manner herein set forth.

RECEIPTS .- When money is paid at the office for subscriptions, a receipt for it will always be iven ; but when subscribers remit their money by mail, they may consider the arrival of the first paper a *bona-fide* soknowledgment of o^{DF} reception of their funds,

39.265.-

springs, ware restrain or estrain or estrain

-Transparent and flexible material designed as a

partial substitute for Glass.—Christoph Bussegger (assignor to himself and Moritz Pinner), New York

IMPORTANT TO INVENTORS

PATENTS FOR SEVENTEEN YEARS.

MESSRS. MUNN & CO., PROPRIETORS OF THE SCIENTIFIC AMERICAN, continue to solicit patents in the United



tinue to solicit patents in the United States and all foreign countries, on the most reasonable terms. They also attend to various other depart ments of business pertaining to pat ents. such as Extensions, App before the United States Court. Interferences. Opinions relative to Infringements, &c. The long ex-perience Messrs. MUNN & Co. have had in preparing Specifications and Drawings 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 of drawing and description to this office.

THE EXAMINATION OF INVENTIONS.

Persons having conceived an idea which they think may be patentable, are advised to make a sketch or model of their invention, and submit it to us, with a full description, for advice. The points of nor-elty are carefully examined, and a written reply, corresponding with thefacts, is promptly sent free of charge. Address MUNN & CO. No.37 ParkRow, New York.

PRELIMINARY EXAMINATIONS AT THE PATENT OFFICE. The service we render gratuitously upon examining an invention does not extend to a search at the Patent Office, to see if a like inven tion 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 ob taining a patent, &c., made up and mailed to the inventor, with a pamphlet, giving instructions for further proceedings. These prelim-inary examinations are made through our Branch Office, corner of F and Seventh streets, Washington, by experienced and competent per sons. Many thousands of such examinations have been made through this office. Address MUNN & CO., No. 37 Park Row, New York.

HOW TO MAKE AN APPLICATION FOR A PATENT. Every applicant for a patent must furnish a model of his invention if susceptible of one; or, if the invention is a chemical production, he must furnish samples of the ingredients of which his composition consists, for the Patent Office. These should be securely packed, the by express. The express charge should be pre-paid. Small model from a distance can often be sent cheaper by mail. The safest way to remit money is by draft on New York, payable to theorder of MUNN & CO. Persons who live in remote parts of the country can asually purchase drafts from their merchants on their New York correspondents ; but, if not convenient to do so, there is but ifthe rish in sending bank-bills by mall, having the letter registered by the post master. Address MUNN & CO., No. 37 Park Row, New York.

The revised Patent Laws, encoded by Congress on the 2d of March, 1861, are now in full force, and prove to be of great benefit to all par ies who are concerned in new inventions.

The duration of patents granted under the new act is prolonged to SEVENTEEN years, and the Government fee required on filing an application for a patent is reduced from \$30 to \$15. Other changes in the

On filing each Caveat	
On filing each application for a Patent, except for a design\$15	
On igening each original Patent	
On appeal to Commissioner of Patents	
On application for Re-issue	
On application for Extension of Patent	
On granting the Extension	
On filing a Disclaimer \$10	
On filing application for Design, three and a halfyears\$10	
On filing application for Design, seven years	
On Alles application for design fourteen vesrs	

The law abolishes discrimination in fees required of foreigners, ex cepting natives of such countries as discriminate against citize the United States-thus allowing Austrian, French, Belgian, English, Russian, Spanish and all other foreigners except the Canadians, to enjoy all the privileges of our patent system (but in cases of designs) on the above terms. Foreigners cannot secure their inventions by filling a cave stat; to citizene only is this privilege accorded. During the last seventeen years, the business of procuring Patents

for 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 confidence reposed in our Agency by the inventors throughout the country, we would state that we have acted as agents for at least TWENTY THOUSAND inventors! In fact, the publishers of this paper have become identified with the whole brotherhood of inventors and patentees at home and abroad. Thousands of inventors for m we have taken out patents have addressed to us most flatter ing testimonials for the services we have rendered them, and the wealth which has inured to the inventors whose Patents were se ugh this office, and afterwards illustrated in the SCIEN. TIFICAMERIOAN, would amount to many millions of dollars | We would state that we never had a more efficient corps of Draughtsmen and Specification Writers than those 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.

REJECTED APPLICATIONS.

Weare prepared to undertake the investigation and pro Washington Agency to the Patent Office affords us rare opp for the examination and comparison of the first state of the st rejected cases on reasonable terms. The close proximity of our a examination and comparison of references, models, drawings, decuments, &c. Our success in the prosecution of rejected cases has been very great. The principal portion of our charge is generally left dependent upon the final result.

ons having rejected cases which they desire to have pr ecuted, are invited to correspond with us on the subject, giving a brief story of the case, inclosing the official letters, &c.

CAVEATE

Persons desiring to file a caveat can have the papers prepared in the ortest time by sending a sketch and description of the invention. be Government fee for a caveat, under the new law, is \$10. A pame phlet of advice regarding applications for patents and caveats, printed in English and German, is furnished gratis on application by mail. Address MUNN & CO., No. 37 Park Row, New York.

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We are very extensively engaged in the preparation and securing f patents in the various European countries. For the transaction of this business we have offices at Nos. 66 Chancery lane, London : 20 Roule vard St. Martin, Paris ; and 26 Rue des Eperonniers, Brus We think we can safely say that THREE-FOURTHS of all the sels. European Patents secured to American citizens are procured through the Scientific American Patient Agency, No. 37 Park Row, New York. Investors will do well to bear in mind that the English law does not

limit the issue of patents to inventors. Any one can take out a pat-Circulars of information concerning the proper course to be pur-

sued in obtaining patents in foreign countries through our Agency, the requirements of different Government Patent Offices, &c., may be had gratis upon application at our principal office. No. 37 Park Row, New York, or any of our branch of

ASSIGNMENTS OF PATENTS.

ents of patents, and agreements between pa Assignm manufacturers are carefully prepared and placed upon the records a the Patent Office. Address MUNN & CO., at the Scientific American Patent Agency, No. 37 Park Row, New York.

It would require many columns to detail all the ways in which inventors or patentees may be served at our offices. We cordially ininver vite all who have anything to do with patent property or inventions tocall at our extensive offices, No. 37 Park Row, New York, whereany questions regarding the rights of patentees will be cheerfully anvered.

ns and remittances by mail, and models by express Commun (prepaid), should be addressed to MUNN & CO., No. 37 Fark Row,



L. M. B., of Mich.-Sulphate of potassa is the best mor dant known to us for hair dye-using nitrate of silver as the coloringagent. Gallic acid is a disagreeable mordant. To clean a mar ble slab first use soap and whitening; then rub off aud polish with a piece of leather. Iron stains may be removed from marble with a solution of oxalic acid; but it renders the surface of the marble rough

W. W. D., of Conn.-The armor plates and turrets of the Reached weigh over fourteen hundred tuns, all of which has to be sustained by the framing of the vessel. The framing, however, is very strong

R. H., of N. Y.-In making your currant wine, use about one pint of sugar to one quart of the juice of the currants, and watch the progress of the fermentation, daily, so as to check it at th right point. If you allow it to proceed too far, it will acquire a taste inegar flavored with smoke.

W. C. T., of N. J.—Some gardeners use a soft brush for removing aphides from rare and delicate plants, in cases where fu migation would be too troublesome. We advise you to try this plan or yours

H. L. V., of Cuba .- The oscillations of the barometer are more limited in tropical than in northern climates, but they are just as regular. In Cuba a disturbance of the mercury, equal to that which occurs in the North before a slight thunder-storm, is a sure precursor of a terrific hurricane. By close attention to a barometer. you will discover this to be the case.

At the time of going to press with our last issue we had the usual weekly lot of specifications, drawings and models, packed and ready to send to the Patent Office. But owing to the rolous turmoil raging in the city on that day, we were compelled to withhold the shipment for a day or two, until law and order were restored. This unts for the absence from the last number of our usual list of nowledgments. We believe it is the first occasion during fifteen years that an omission of this kind has occurred.

Money Received

At the Scientific American Office, on account of Patent Office business, from Wednesday, July 8, to Wednesday, July 22, 1863 :---

G. A., of Mich., \$26; R. R. B., of N. Y., \$16; R. W., of Conn **5**(5); H. P., of Me, S. 25; J. S. G., of N. Y., \$16; O. F. O., of Mass, \$25; G. McG., of Ohio, \$16; J. M., of Wis., \$12; P. B., of Ill., \$15; I. H., of Wis., \$26; M. M., of Mass., \$30; N. B. B., of N. Y., \$16; J. T. of Wis., \$26; W. M., of Mass., \$30; N. B. B., of N. Y., \$16; J. T. of Wis., \$65; W. McK., of Pa., \$25; S. W. P., of Mass., \$16; C. M. L., of N. H., \$20; A. S. M., of 111., \$20; C. C. S., of 111., \$20; C. B., of Cal., \$50; J. T. W., of N. J., \$16; J. B. T., of N. Y., \$20; J W. D., of N. Y., \$36; J. P., of N. J., \$41; J. G., of 111., \$20; S. S. A., W. D. of Mass., \$20; T. R. T. of N. Y., \$55; S. S. and D. C., of III, \$20; W T., of N. Y., \$10; J. C. C., of N. Y., \$314; S. and S., of N. Y., \$16; C. D. S., of N. Y., \$25; W. C. H., of Ohio, \$25; C. D. B., of Mich., 5. D. S., Of N. I., \$53, W. C. H., Of Ono, \$53, C. D. S., Of Mich.
\$25; J. W., of Ill, \$40; F. M., of C. W., \$16; J. H. C., of Ky., \$25; M. and S., of Pa., \$25; W. K. S., of Pa., \$25; T. H. B., of Mass., M. and S., of Pa., \$25; W. K. S., of Pa., \$25; T. H. B., of Mass., \$16; J. H. R., of Conn., \$12; B. F. H., of N. Y., \$25; H. B., of Pa., \$16; C. D., of Mo., \$25; A. J. A., of Ill., \$15; R. H. L., of Pa., \$20; O. H. K., of Saxon, \$20; J. V. V. B., of N. Y., \$41; C. F. B., of N, Y., \$10; P. P., of N. V., \$30; A. C. C., of N. Y., \$41; J. McH., of Obio, \$20; J. P., of N. Y., \$10; S. and M., of Iowa, \$20; H. H. J., of Conn., \$20; M. W. W. of Mo., \$16; J. J. R., of N. Y., \$16; C. T. D., of N. Y., \$10; P. P., of N. Y., \$10; S. and M., of Iowa, \$20; H. H. J., of of N. J., \$20; A. B., of N. J., \$41; J. H. M., of Ind., \$20; E. B. R., of N. J., \$20; G. H. S., of Mass., \$25; A. B., of Mich., \$25; J. B. C., of Mass., \$25; M. C. B., of Ill., \$16; S. L. G., of N. Y., \$25; B. L. of N. Y.

Vt. \$133; I. E. P., of Conn., £30; J. K., of Iowa, \$16; J. D., of Ill., \$41; S. H. M., of Cal., \$11; K. C. and R., of Wis., \$10; R. F. W., of N Y., \$30; J. C., of Maine, \$20; T. L. C., of N. Y., \$25; J. G. R., of Cal 53; M. F. W., of III., \$26; A. S., of III., \$20; J. B., of I.d., \$20; J. L., of N. Y., \$20; O, P., of VL, \$20; A. and C. K., of N. Y., \$41; F. D. B., of Ind., \$20; J. H., of Cal., \$41; C. R., of Mich., \$20; A. K., of N. Y., \$41; G. G. H., of Conn, \$20; F. W. H., of Canada, \$20; J. C., of Ohio, \$20; L. and B., of Ohio, \$51; A. M. M., of N. Y., \$16; J. C. W., of N. Y., \$20; T. S. T., of Ind., \$20; J. H. L. T., of Il1, \$20; O. A., of N. Y., \$25; B. C. N., of Ill., \$12; A. S., of N. Y., \$15; J. V. V. B., of N. J., \$25; J. P., of N. J., \$25; A. M. M., of N. Y., \$25; W W. T., of Wis., \$16; J. W. K., of Mass., \$25; H. E., of N. Y., \$20; A. B., of N. Y., \$25; T. B., of N. Y., \$25; J. H. B., of N. Y., \$26; J. T. W., of N. J., \$25; T. R. T., of N. Y., \$35; A. J. S., of Ill, \$16; J. S. W, of N. J., \$25; I. K. I., of N. I., \$25; A. J. S., of I.I., \$16; J. S. G., of N. Y., \$25; A. C. F., of N. Y., \$20; E. O. B., of N. Y., \$25; R. F. W., of N. Y., \$25; A. K., of N. Y., 25; F. J., of Wis., \$25; J. W., of Iowa, \$31: A.C.B. of N.Y. \$10.

Personshaving remitted money to this office will please to examine the above list to see that their initials appear in it, and if they have not received an asknowledgment by mail, and their initials are not to be found in this list, they will please notify us immediately, and in-form us the amount, and howit was sent, whether by mail or sr-----

Specifications and drawings and models belonging to parties with the following initials have been forwarded to the Pate Office from Wednesday, July 8, to Wednesday, July 22, 1863:-

A. aud C. K., of N. Y.; A. B., of N. Y.; T. B., of N. Y.; P. M. R. of Cal; A. S., of N. Y.; A. K., of N.Y.; A. M. M., of N. Y.; F. J., of Wis; J. T., of Wis. (2 cases); C. D., of Maine; J. G. R., of Colorado Territory; P. S., of Mich.; J. H. K., of Conn.; C. D. S., of N. Y.; A. B., of Mich.; G. H. S., of Mass.; W. C. H., of Ohio; A. and M., of Wis.; I. H., of Wis.; A. C. C., of N. Y.; E. O. B., of N. Y.; B. C. N., of Ill.; J. H. B., of N. Y.; J. V. V. B., of N. J.; J. P., of N. J.; J. W., of Iowa; J. M., of Cal.; W. M., of Mass.; B. F. H., of N. Y.; N. F. C., of Wis.; J. H. C., of Ky.; S. L. G., of N. Y.; or N. Y.; N. F. C., of Wis.; J. H. C., of Ky.; S. L. G., of N. Y.; W. F. O., of Mass.; J. B. C., of Conn.; J. M., of Ill.; W. R. S., of Pa., G. A., of Mich.; J. W. D., of N. Y.; O. A., of N. Y.; R. F. W., of N. Y.; J. T. W., of N. J.; T. R. P., of N. Y.; J. W. K., of Mass.; J. S. G., of N. Y.; E. D. B., of N. Y.; M. F. W., of Ill.; W. McK., of Pa.; T. L. C., of N. Y.; R. and H., of Oblo; H. P., of Maine; C. D. B. of Mich.; W. M. B., of Ind.; M. and S. of Pa.; S. H. M., of Ill.

TO OUR READERS.

PATENT CLAIMS .- Persons desiring the claim of any invention which has been patented within thirty years, can obtain copy by addressing a note to this office, stating the name of the pat-entee and date of patent, when known, and inclosing \$1 as fee for copying. We can also furnish a sketch of any patented machine issued 1863, to accompany the claim, on receipt of \$2. Address MUNN & CO., Patent Solicitors, No. 37 Park Bow, New York.

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 are required to accompany the petition, specification and oath, except the Gover nme nt fee.

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

NEW PAMPHLETS IN GERMAN .- We have just issued a revised edition of our pamphlet of Instructions to Inventors, con a digest of the fees required under the new Patent Law, &c., printed in the Germanianguage, which persons can have gratis upon cation at this office. Address MUNN & CO., appll-

No. 37 Park-row, New York.

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

Believing that the latter style of binding will better please a large our readers, we commenced on the expiration of ortion of Volume VII, to bind the sheets sent to us for the purpose in heavy orard sides, covered with marble spare and leather backs and corners. The price of binding in the above style is **75** cents. We shall be unable hereafter to furnish covers to the trade, but will be happy to receive orders for binding at the publication office, No. 37 Park Row, New York

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