
issued from the united states patent office for the week ending may $20,1862$.
Reported officially for the Scientific 1 mertcan.
*** Pamphlets giving full particulars of the mode of applying for


35,256.-John Adams, of Pittsburgh, Pa., for Improvement in Preserve Vessels : I claim the construction of the cover, C , with wedge shaped proiec-
tions, if in in combination with the yoke, B , and the neck of the.jar, $a$ a
[This invention consists in a mode of securing the cover to the neck of the vessel by means of double-hooked yoke catching under a fixed collar on the exterior of the neck of the jar and bearing upon cir-
cullar wedge-like projections on the top of the cover, the said yoke be. ingapplied by putting it over the cover and neck, passing its hooks throngh 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 frmly in place.]
35,287.-J. J. Alvord, of Tecumseh, Mich., for Improved Machine for Molding and Pressing Brick:




## 35,2s8.-S. E. Anthony, of Stillwater, N. Y., for Improve-

 ment inShingle Machines:
[This invention relates to an inmproved shingle machine of that class 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 sawe simaitaneously into shingles of proper taper form, and to this end two gangs of saws ars erployed, one gang being placed in an ordinary reciprocating gate or frame which has a lateral as well as a reciproca
movernent, all being so arrangsd as to obtain the desired result.]
35,259.-Sarah A. Baldwin, of Waterbiry, Conn., for Improved Combination of Sof a and Bathing Tub: I claim, as an improved article of manufacture the combined
35,290 .-C. E. Bancroft, of Waterbury, Vt., for Improved Clothes Wringer
I claim the shape and construction of the circular blocks, II, ar
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 :
o series of horizontal wies running a two series of horizontal wires running at a rightangle withe
substantially in the manner and or the purpose set forth
I also claim the spreader, s , in combination with the
training cords, $o$ and $p$, sulstantially yas and tor the purpose spergiied.
1 also claimforming the training cords of wire intertwined with one or more fibrous strands, for the purposes specified.
I also claim the ase of the hooks, thaving a sharp or annular in
ner edge, and otherwise constructed as described for the purposes set ner edge
35,292.-M. C. Bogia, of Philadelphia, Pa., for Improve ment in India-Rubber Sword Handles: dagger or other lik
35,203.-Jehu Brainerd, of ment in Depilating and Bating Skins
skins, the same being combined in one operation, as specilied. $35,294 .-S$. A. Briggs, of Providence, R. I., for Improve-
ment in Heaters:
I claim, first, The tues, H H, arranged within the drum, E, or at
the upper partof the cold air pipe, , and used in connection with the
upper inverted conicalparts, b $\mathbf{d}$, of the furnace and cold air pipe, as
and for the purposespecified. with a central partition plate, i, and plates, $h^{\prime}$, and communicating
with curved passages, $h$, in the flues for the purpose of rendering the
 H , and pipes, II, arranged as shown within the chamber, B, for the
purpose specifed. [This invention consists in a peculiar manner of constructing the furnace in connection with a central cold air pipe, whereby a large great saving thereby efected in the consumption of fuel. The invention also consists in a novel construction and arrangement of flues, tion also consists in a novel construction and arrangement of tlues,
wherehy economy in fuel is not only obtained but the flues also rendered 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, fir ct, The conical portion, , of the windlass, or its equiva-
lent, fior oen eying the raised bucket over the discharging spout, ar-
ranged and operatng substantially as specified lent, for on veying the raised bucket over the discharging spout, ar-
ranged and operatng substantially as specified.
Second, I also claim the lever, 1 and double branch chain or cord, rave. the crank or winch, C, substantally as and for the purpose set forth.
Fourth, $I$ also claim the dripping spout, E, arranged and operating in combination with the dischargng spout, $D$, substantially as and tor
35 296.-William Brown, of Petersburg, Pa., for Improved I claim the griping bar, D , hinged to the uprights, a a, in the man-
ner described and shown, for the purpose set forth.
35,297.-Charles Bushor, of Philadelphia, Pa., for Improvement in Machine for Loading Coals, \&c.:
I claim the arrangement of an elevator on a movabie truck, for the
purpose of loading coal, when the same are constructed and combined
in the manner substantially as set fort and a escribed.

35,298.-Alvin Cahoon, Jr., of Harwich, Mass., for Im provement in Combined Spirit Levels:
I claim the instument described, consisting of to horizontal spirit
levels at rinht angles one to levels at right angles one to the other, and one of them renderead ad
justale in the vertical plane, for the purpose of determining the trin of a vessel, substantially as deseribed.
35,299-L. S. Chischester, of New York City, for Improve:
ment in Grain-Weighing Machines

as set forth.





 35,300.-Abram Clow, of Port Byron, N. Y., for Improved Attachment of Whiffletrees to the Tow Lines of Canal
Boats: 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
forih.
[This invention relates to a modeof attaching whinfletres to the towines of canal boats, whereby the whifferree may be instantly de ached from the towime when the lateris drawn taut, as, or instance, when a boat, in passing another one, hasjits towline catch against it, contingency which frequenty occurs, and which causes the horse to be thrown ina whe
35,301.-C. C. Converse, of Elmira, N. Y., for Improved
Mancle: Mangle
I claim the pressure rollers, BC , and endless apron, L , in combina-
tion with the toding or extension frame, $\mathbb{K}$ all arranged and applied
the
 TThe 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 compaclly whén not required for use. To this and the invention con.
sists in the employment of one or two pressure rollers and an endess 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 toeff ect the dosired result.
Mr. Converse's residence is Dubuque, Iowa, and not Elmira, N. Y.,
35,302.-J. C. Currier, of Bradford, Vt., for Improvement in Window Sashes

 [This invention relates to an improved manner of securing the lights or panes of glass in the sash, whereby the use of putty or any other plastic substance is enturely avoided and the panes not only secured in such a manner as to admit other weash 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 hard by age.]
35,303.-H. G. Davis, of New York City, for Improvement in Extension Splint
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 man 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 Improvement in Instruments for thelerraphs: one or more armaturesatached, and with the spring, 13 , of the addust-
able counterpoise or taance weight, 9 , substantially as and for the
purpose set forth purpose set forth.
Sec.nd, The combination of the a-liustable counterpoise or balance
weight, 9 the sounding lever, 6, having armatures, $77^{\prime}$, attached, and weight, , the sounding lever, ${ }^{\text {, }}$, having armatures, 7 , $7^{\prime}$, attached, and
spring, 11, with one or morectro magnets, constructed and ar-
ranged substantially as and for the purpose set forth. 35,305.-R. E. Dixon, of New York City, for Improvement in Tobacco Pouches:
I claim the arrangement and combination of the pipe case, $A$, valve,
g , and tobacco pouch, $\mathbf{B}$, substan tally as aescribed, so as to keep the two entrely separate from each other, but so that the pipe can be
loaded wheneraer desired, without opening the pouch or without the
use of the fingers to loadit as is usually necessary.
use of the fingers 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, iirst, The arrangement of the hopper box with its shaft ope-
rated nd escribed and by the neeann described, with the cultivator con-
structed and operated asdescribed structed and operated asdescribed.
Second, The arrangenent of the sliding beam, D , with the levers,
H and I , and in connection with the cultivator beam, G , io enable the driver to operate the same, as described.
35,307.-W. H. Earnest, of Clarksburg, Va., for Improve-35,307.-W. H. Earnest, of Clarksburg, Va., for ImproveI claim the employment of pivoted arms, $G$ G, upon the rocker or
rockers of cradles of the description represente and specified, for the purposes set forth.
[This invention! consists in the application of pivoted stops to the rockers of a cradlefor the purpose of preventing the motion of the falling out on the floor by the tilting or upsetting of the cradle.
Mr. Earnest's address is Parkersburg, Vu.]
35,308.-N. F. English, of Hartland, Vt., for Photographic Apparatus:
the caim the combination with the box, AB B C C C, and the lid, $D$, of
, G , p piece, , and front prece, F , the whole ap-
plied and arraniged substantially as andecified, prece, F , the
Second, Combining the water fountam or vessel, K , and the vessel,
, from which the developing fluid is used by means of valves, k p . L, from which the developing fluid is used by means of valves, k p.
and a shoe piece, $\mathbf{N}$, or its equivalent, making one outlet for both ves-
sels, substantially as and for the purposes spectified. sels, substantially as and or the purposes spectife
35,309.-W. D. Grimshaw, of Newark, N. J., assignor to
himself and C. A. Teneyck, of New Ycrk City, for himself and C. A. Teneyck, of New Ycrk City, for
Improvements in Forging Hammers: Improvements in Forging Hammers
I clam, first, The lifting slot, 5, formed as shown, and arranged in
connection with the crank pin,
and wheel, $h$, as and , ror the purchent wheel, 1 , pawl, 3 , and wheel, h has and for the purposes specified.
Second, 1 , 1 aim arranging the hammer, a a a bar, $r$ and lifting rod, $n$, in the manner and for the purposes specified. pils, In the mannerand tor the purposes specifed.
Foutth, I claim the air cyinders, t, with the valves, 10 and 11 , in
combination with the wheels, h and 1 , shaft, 2 rod, $n$, and arm o to the hammer, q, the parts being arranged and acting as and for the pur
poses specified.

35,310--E. D. Griggs, of Waterbury, Conn., for Improve ment in Photographic Alloums: flanch, a a, interposed and secured between the said preces, substan
tially 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 un-
ocking it from, the rear end of the barrel, by means of one or mor Keys passing through the breech and entering recesses in the barrel ranged in relation to the breech handile and the a syid keys so as to op
erate the later in the act of depressing the breech, by grasping the Second, The meethod described of constructing the breech piece in
three parts, under the arrangement sel forth, and when combined with hree parts , under the arrangement sel forth, and when combined with
wedges or keys to tighten the brech, and thus insure perfect fric. tional eontact of the breech and barrel.
Third, Providing the sides of the rar end of the barrel with trun-
or proiections and to hang the breoeve, in combination with the steps
che manner and for the purpose set or projections and grooves, in the manner and for the purpose set
forth. 35,312.-Richard Griswold, of Bainbridge, N. Y., _for Im provement in Metallic Pens:
I claim a pen, A, provided with a longitu
I claim a pen, A, provided with a longitudinal plate, B, inserted in
its slit, a, so asto 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 cause the pen, when in use, to she the ink freely, without the liability of
making blank or imperfect marks or strokes, and also to insure the making blank or imperfect marks or strokes, and also to insure the pen, whether the same be coarse or fine.]
35,313.-J. D. and A. M. Halsted, of Rye, N. Y., for Improvement in Hand Cultivators :
We claim the combination of the sets of knives, 1 , ins described,
th the arms 22 to which they are attached, and will: the clip, 5 , We claim the combination of the sets of knives, 1 , its described,
whith the arms 22 , to which they are attached, and withe the clip 5 ,
shanter, 4 , handile, 7 , and clamps 88 the whole being
constructed and arranged, substantially as described and operated as constructed and arranged, substantially as described and operated as
set forth
35,314.-A. K. Hay, of Winslow, N. J., for Improvement
in Glass Furnaces: In claim the described
I claim the described furnace, composed of the heating compartment, with its two fireplaces, C and $\mathrm{C}^{\prime}$, platform, D , and two pits,
E E, the intermediate compartent, whe its platform, L and its
contmuation of the said pits, and ihe annealing compartment, H, the being arranged substantially as and for $t$ 35,315.-Reuben Hottheins, of Dover, Pa.,for Improvement claim, first, A combined reel and rake, rotating upon a vertical 1 claim, first, A combined reel and rake, rotating upon a vertical
axis, and having its arms successively turned upinto an inverted posi-
ion, so as to pass over the main frame, substantianly as explained. Second, The inclined standard, I, rigidly mounted upon a loosely-
hinged platrorm, and employed to support a revolving reel and rake in an unchangeable potition in relation to the platform, without ob-
structing the free motion of the latter.
Third Third, The yielding and swiveled rod, Q, operating in combmation
with the band, $P$, and pulleys, 0 and $R$, in the manner and for the
purposes shown and explained. [This invention relates to certain improvements in mounting and oprating an obliquereelandrake, whereby it ind in its action on the standing grain, and in reme 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
reservoir and ihe self.closing apparatus, when constructed and opera.
ting, sub stantially as set forth. ting,
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 adiustable, as described. Mortising Machine
I claim the mode of supporting and guiding the mandrel on the
curved bar, F, adaptef for vertical and angular adjustment, substan-
tially as and for the purposes set forth. 35,319.-W. A. Lighthall, of New York City, for Improvement in Condensers for Making Potable Water: I claim the combination of the discharge pipe, A, with the serios of
cooling tubes, $D$, arranged and operated as and for the purpose set 35,320.-Edwin May, of Indianapolis, Ind., for ImproveI claim, first, The casting of conical and hollow bullets, and stvaging,
 set forth. The ad justable molds, $i$, , and clamps, i, i, in combination
Second,
with the lever, a and $\alpha$, when constructed and operated, substantially 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
35,322.-J. W. Moore and W. H. Elliot, of Plattsburgh,
graphs:
We claim, first, The alternate arrangement of the colored glasses,
 $35,323 .-\mathrm{J}$. B. Murray, of New York City, for Improved claim collecting and conveying letters and other mail matter to the I claim collecting and conveyng 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, boxes or other suitable repositories, for the reception of drop letters,
in combination with streft railway cars, or orher suitable public vehi-
cles such as used for local passenger con veyance on stated routes, in combination with street railway cars, or other suitabe pard ase used for local passenger conveyance on stated routes,
cles, such and rest
in towns and cities, substantially asdescribed. 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 e $c^{\prime} d^{\prime} \mathrm{e}^{\prime}$, to ma.
hines for dredging oysters, coal, or other sunken objects, said guards chines ior dredging oysters, coal, or other sunken objects, said guards
or fenders being constructed and operating, substantially in the man-
ner and for the purposes set forth. 35,325.-Henry Redlich, of Chicago, Ill., for Improved Apparatus for Corking Bottles
I claim the box, A, provided with wa inverted conical bore, B, and
plunger, D, in comblnation with the movable cap, C, substantially as
and for the purpose set forth and for the purpose set forth.
[The object of this
The object of this invention is to obtain a simple and efficient defit the bottles at one operation.]
35,326.-W. B. Ryan, of East Pembroke, N. Y., for ImI claim giving the shater, L, Lan upp-and down percussive motion, as
distinguished from a horizontal vibrating motion), by means of the rock
 I also claim the hinged frame, $G$, in combination with the shaker,
L, arms,, , rods, $F$ and $M$, amí cutter, , for the purposes, and sub-
stantially as described.

35,327.-Q. Sure, of Wellington, Ohio, for Improvement
in Cheese In Cheese ats:
Ilaim the combination with the lower part of the water box or
chamber, of an oblong or top-inclined furnace, having inclined cross chamber, of an oblong or top-inclined fur nace, having inclined cross
thbes. the parts being arranged in relation to each other as and for the
purposes set orth.
35,328.- F. A. Salisbury, of Greene, N. Y., for Improved Knife-Cleaning Box Inc claim, as a new article of manu facture, the polishing box, D, hav-
 35,329.-Gerad Sickles, of Roxbury, Mass., for Improvement in Metal Plates for Protecting the Soles of Boots and Shoes:
I claim, asa 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, proiecting at right angles to the the
plane or the disk.and alapated to securve 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:
G, and piston, $H$, arranged and operating as and for the purposes set
orth.
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, $A^{\prime} A^{\prime}$, or their equivalents, cons
or its equivalentand so forward and back, and right and left, substantially in the mannerand
forthe purpose shown and described. forthe purpose shown and described.
Third, The arrangement of the longitudinally-sliding bar, $\mathbf{E}$, in com.
bination with the swinging neck bars, $A A^{\prime}$ constructed and operating bination with the swinging neck bars, A A $A^{\prime}$, co
substantially as and for the purpose specified.
[The object of this invention is to arrange the means employed for asiening and unfastening cattle, in such a manner that by a single movement a whole row of cattle can be fastened or unfastened 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.] ment in Veneer Cutting Machines:
I claim suspending the log carrier, A, or the knire, F , from two or
more pivots, a, rroiecting from rotary or oscillating arms or disks, B
substantially in the manner and for the purpose shown and described.
 forth.
35,333.-W. T.Spies, of Baltimore, Md., for Improvement in Railroad Car Coupling
with its notch for holding and regulating the conpling link with the con ncave and convex form on the coupling link, and the convex form
of the inside seat of the buffer, in the manner described, and for the purnose of
35,334.-C. B. Tatham, of Brooklyn, N. Y., for .Improvement in Apparatus for Casting Minié Balls:
First, I claim the means, substantially as describen, of forming the
hole in the base of the ball by a core held in its place within the hole in the base of the balt by a core held in its place within the
chamber, by its contact with the piece or pieces which orm the same That any expansion or mption of the mold will carry the cores there
ith, and maintanb their central position within the chambers.
Second, In combination with means substantially as described, o peserving the centrality of the cones under movements or varying ex
pansion of tha mold, I claim removing a numer ot such cores, and pansion of tha mold, I claim removing a number of such cores, and
returning them to their places at a single operation, by themeans substantially as described.
Third In combination with means substantialiy as described, of pre
serving the centrality of the cores, and with means substantiaily 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 rilled through the points thereof, and to allow the metal to set under
a head, with the points of the balsdirected upward, for the purpose
of simplif ying the constriction of the apparatus, and of increasing a head, with the points
of simphif ying the cons
he solidity of the balls.
5,335.-Miner Van Auken, of Amsterdam, N. Y., for Improved Clothes Wringer
Mrst, I claim the aplication and use of one or more lever cores, $h$,
or their
set torth. secthd, I claim the spring, G, or its equivalent, constructed and ap
sed substantially in the manner and for the purpose set forth.
 ards, A, or in an equialient, manner supplying the means whereby the
lateral movement of the spring may be prevented as described.
Fonth, I claim the anplication
 Fils, sianhilily as descrited.
Filth, I claim the aplic
Fith, I claim the application of a single lever kuee, P orits equisa-
fent to the girt, C , substant atly in the manuer and for the purpose set
forth. sixth, $\mathbf{I}$ claim the eccentric lever arms, $V$, or their equivalents, for Serenth, I claim wne or more relief rolls, or their equivalents, a
and for the purpose forth. 35,336-J. F. Thomson, of Buffalo, N. Y., for Improve
ment in the Manufacture of illuminating
ment in the Manufacture of illummating (aas: I claim the mannacture and use of an Illuminating gas produced by
coontinition of petrole unn er rock oil, or other hydrearben gases,
 35,3:3.-Julits Thombson, of Taunton, Mass., for Improve ment in screw Wriver:s: stantially as described and for the "..? s. sp itiod. 35,338.-Madison Vedder, of Nerv York City, for mprove
ment in Catamenial and Urinal Bandages and Recep tacles
irine pouch, $B$, substantially as and tor the porpese specilled. $A$, and
 he catsmenial receptacle, and the grdie, which attiaches it to the bod or any portion of such connections, of tubular form, whereby they
are mate to serve the additional purpose of ventilating the receptacle,
substantially as specified ubstantially as specified
[This is a very usetul apparatus for ladies traveling.]
35,339.-_Julius Von Hofe, of New York City, for Improvement in Tips for Fishing Rods
I claim the fishing-rod tip formed with the guide, o, and receiving
the sheave, $i$, in the manner and for the purpinses substantially as
$35,340 .-C$. H. Walker, of Warren, Mass., for Improved
Chest of Drawers:
Chest of Drawers
I claim, as a new article ot manufacture, a chest, $A^{\prime}$, provided with
drawers, A, sleve. B, drawers, $C$ D E, adjustable molding beard, $F$,

The object of this invention is to produce a receplacle capable o holding ail the articles generally used by housewives in transacting
their household duries, in a compact form and with a handsome exierior.]

35,341.-Gustav Wedekind, of Philadelphia, Pa., for Im-
proved Shade Holder for Gas Burners or Lamps:
proved Shade Holder for Gas Burners or Lamps :
I claim the conibination of the clasp, open ring, or buckle, d , with shade holder, substantially as and for the purpose set forth.
I also claim, in combination with the shade holder, the supports, in the br
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 let.
ter, envelpe or materia to be used as a seal, in an ink, or paint
which will be destroyed or defacee by an attempt to open a letter en. which will be destroyed or deface by an attemp.
velope or package upon which the same is placed.
35,343 .-J. R. Whittemore, of Chicopee Falls, Mass., for Improvement in Rakes for Harvesters:
claim the comblnation of the rake, 0 , and plate cam, $\mathbf{G}$, when ar-36,344.-Hosea Willard, of Vergennes, Vt., for Improved Looking Glass
I claim, as a new article of manufacture, a mirror or looklng-glass
for domestic or household use, constructed of a plupality of panea plaed in contact with each other so as to form a longiludınal section
of an [This ine as set forth.
This invention relates to a new and improved mirror or looking. glass for domestic or household use, and consists in constructing the mirror 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 posi-
tion, 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
scrib
35,346.-Isaac Winslow, of Philadelphia, Pa., assignor to
. W. Jones, of Portland, Me., for Improved Process
claim theserving Green Corn
Itate withe described process of preserving indian corn $n$ the green
state, wing the same, the corn being sealed hermetically in cans or other versels, and then expose
manner add for the purp oses set forth.
35,347.-T. C. Ball (assígnor to himself, D. M. Smith, H.
H. Mason and A. C. Mason), of prinstield, Vt., for Improvement in Blind and Shutter hiflortcr: ing hooks, EF, in the manner and for the purpose shown and de-

The object of this invention is to obtain a fastening of simple contruction, which will serve, when the shutter or blind is secured in ither an open or closed state, as a support to the"same, and prevent it from sagging.]
35,348.-John Howe, Jr., F. M. Strong and Thomas Ross (assignor to John Howe, Jr.), of Brandon, Vt., for e claim, insent in Portable Platform Scales
we ciam, first, The lever frames, B B and platforms, $C$, placed placed within the upper part or cover, $F$, of the box, and connected to
the lever rames. as shown, and all arranged in such a manner as to
admit of the part or cover. F, when the scales are 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
Second, The slide, $\mathbf{L}$, and arm, $p$, or their equivalents, when placed
within the box or the cover thereof, and in relation with the beam, $G$ asthin the box or the cover thereof, and in relation with the beam, G
as sho , for the purpose of raising the fulcrum, h, of the beam of
rom its bearings, and preserving them from wear. rom its bearings, and preserving them from wear.
Third, The elastic earings. ${ }^{\prime}$, in combination with the scale and F'ourth, The hook, $\mathbf{k}$, and spring, 1 , when used in conmection with
used er, I. to properly hold the same when the box is in a closed state. Fith, The rod or shaft, i, provided with the plate, $u$, and fixed
weights, veights, t, substantially as shown, for the purpose of tho
when not in use, within the box, as set forth.
[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 ot required for use, and have all its parts so protected that they can解 injured by transportation under ordinary care, and at the same me admit of being very readily adjusted for use. The invengem ployed in other cases.
35,349.-C. F. Martine, of Dorchester, Mass., assignor to
himself and R. H. Emerson, of Lynnfield Center, Mass.
for Improvement in Lamps:
1 claim the tube, C, open at both its top and bottom, its lower ond being at or near the tor of the wick tobe, and its upper end pro
jecting above the wick, the whote constructed, arranged and operating jecting above the wick, the whote constructed, arranged and
substantially in the manner and for the purpose specified.
35,350 -_J. M. Moss, of Waverly, İowa, assignor to himsel and E. H. Williams, of Clermont, lowa, for Improve ment in Pans for Evaporating Saceharine Juices
I claim, first, The construction of an eraporator oo that the opposie
at the will of the onverator, thereby thoronghly stirring the contents of the pan or pans, and cooling the bottom or bottoms thereor.
I claim, second, The construction of a a evaporator with pans or a
pan that one side or end of which may be raised and lowered more or ess rapidly, at the will of the operator.
Third, I clai-m the construction of an evaporator with a series or
mens in which the finishing pan, or the pans in which the evaporation is completed, are raised and lowered in the manner set forth and de
$35,351 . \ldots$ Jolin Power, of Boston, and A. J. Bailey,
Charlestown, Mass., assignor to Peter Holmes, of
Charlestown, Mass., for Improved Machine for Cut ting Cork Stoppers for Bottles and other Vessels : We claim, irst, The combinztion ot the reciprocating cutter, L, and rotatiog mandrel, ©, when arranged substantially as shown, so tha
the later will have a continuous rutary motion imparted ot in one
ind

 $35,352 .-$ smond Reed (assignor to himself A. D. Chese bro), of Paris, Mich., for Improved Hay Rigging: stantially as and tor the purposes described
Sccond, The adjustable joint at the end of
ojecting arms, for Third, The ver
poses described.
35,353.-J oseph Rusch (assignor to himself and Joseph
Lux), of New York City, for Improvement in Attach
ing Armor Plates to Vessels :
, continuous clamp, D, and gronved armor plate, E E, all constructe 55 .

Boston, Mass., for (assignor to E. H. Ashcroft), of Breech-Loading Firearms.
I claim the space, a, and the shoulder, d, arranged and combined
with the expansive breech plug and its secket, substantially in manne
and so as to enable the said breech plug to onerate as specifieu.
35,355 .- W. C. Vosburgh and W. A. Ludden, of Brooklyn
. Y., for Improvement in the Means of Attaching India Rubber to Pencils
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 35,356.- Henry Kellogr, of New Haven, Conn., for Improvement in Breech-Loading Firearms
I claim, first, The combination and arrangement of the pawl or
catch, $D$, with the trigger, $F$, operating in the manncr and for the $p$ ur Second, I claim the combination and arrangement of the spindle, $H$ lially as set forth. $L$, 1 manner and for the purpose substan Third, I claim the spring catch, f , in combination with the spindle,
H, crosshead, K , and slots, L , in the manner and for the purpuse sub-
stantially as described.

## Re-ISSUE.

1,310.-R. B. Goodyear, of Elkton, Md., formerly of Philadelphia, 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. claim the employment, for the purpose of weaving, of an index plate having movable and adjustable pins projecting at "ininerent diti-
lances from the faceot said plate, in combination with the slove, $H$, or its equivalent, for the purpose of raising and fallimg the shinttie
boxes to correspond with the pattern desired to be formed, the whole
constructed andarranged 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 varrying angles, and
changeable or unequald dameters to feed in materials cut in varsing or irregularsections, incombination with changeablerotary cutters and
changeable standing planes, to produce wood moldings of different sizes, with smooth surfaces, from material cut or prepared in varying
or unequal sections for such purposes the whole applied, constructed or unequal sections tor such purposes; the whole applied, constructed
and operating substantially in the manner and wish the effects de.

1,582.-James Paterson, of Elizabeth, N. J., assignor to Deborah Powers, A. E. Powers and N. B. Powers, of tern. 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.D, Author of a full Course of Mare City.
This work is designed for young children, and is constructed upon he plan of object teaching, by presenting to the mind of the pupil the umber or figure in connection with other objects of the same kiud. the fullest sense. Dr. Davies is wellknown as one of the first mathmaticians of the present day
The Atlantic Montilly. Published by Ticknor \& Fields, Boston.
The June number of the Atrantic is equal to its predecessors, but we e amazed at the taste that can admire Lowell's doggerel.
allads of tie.War. Published by John Robins, No. 37 Park Now York City
We have received the first number of a most elegantly printed and㲘 shin the ten by Augustine J. H. Duganne. It is a stirring patriotic composi-
tion. 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. Messis. A. S. Barnes \& Burr, New York City.

This work, of 180 pages, with numerous illustrations, explains the etails of infantry tactics so fully and clearly that "greenhorns" in he artmay acquire the principles of soldiering withont employing a regular drill master, and then if the student has the requisite pluck he an enlistand tight for his country whenever her sons are needed for his purpose. Every man has now a good chance to become a theo retical soldier by getting thisbook of tactics.
Bhackifood's Eminbirge Magazine, for May; The London Qiabteriy Review, and the Westminster review, for A pril. Republished by
79 Fulton street, New York City.
The best litcrature 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.

Ambrican Journal of Science and Arts. Published by
William B. Silliman, B. Silliman, Jr., and James B. Dana, at New Haven, Conn.
We observe that this publication is queted more and mnre by Euan scienufic works of the highest character.
Ournal of tie Franklin Institute. Published by the Franklin Institute, at their hall, in Philadelphia.
The Meitical and Surgical Reporter. Published by
Lippincott \& Co., 144 and 146 North Fifth street. PhilLippincott \& Co., 144 and 146 North Fifth street. Phil-
adelphia. -
The New York Dental Journal. Published by W. B. Roberts, 691 Broadway, New York City.
Buffalo Medical and Surgical Journal. Published by J. F. Miner, M. D.,
tal, Buffalo, N. Y.

Hall's Journal of Health. Edited and Published by
W. W. Hall, M. D., 42 Irving Place, New York City.
Tife American Journal of Photography and the Al, LIED ARTS. Published by Charles A. Seely, $\Lambda$. M.,
Editor and Proprietor, 244 Canal street, New York City.
The Industrial Chemist. Published by John Hillyer, No 249 Pearl street, New York City. Edited by Prof
Dussauce, of the Imperial Laboratories of France.
patents for seventeen years.


The nes Patent Laws enacted by Congress on the 2d March, 1861 , aren $\bullet$ w in full force, and provet be of great benefi all parties who are concerned in new inventions.
The duration of patents granted under the new act is prolonged to ghenteen years, and the governcemiee requred ons pring appli cation for a patent is reduced from $\$ 30$ down to $\mathbf{\$ 1 5}$. Other change n the feesare alse made as follows :


The law abolishes discrimination in fees required of foreigners, ex cepting reference to such countries as discriminate against citizens o the United States-thus allowing English, French, Beigian. Austrian Russian, Spanish, and all oiher foreigners except
enioy all the priviteges of our patent system (exceptin cases of designs) on the above terms.
on the above terms.
During the last sixteen years, the business of procuring Patents for new inventions in the United States and all foreign countries has been conducted br Messrs. MUN A CRICAN ; and as an ton of the SCIENA. confidence reposed in our Agency by the Inventors throughout the FIFTEEN THOUSAND Inventors! In fact, the publishers of this paperhave becomeidentified with the whole brotherhood of Inventors and Patentees at home and abroad. Thousands of Inventors for whom we have taken out"Patents have addressed to us most fattering testimonials for the services we have rendered them, and the wesitb which has inured to the Inventors whose Patents were seciured through this Offce, and afterward illustrated in the SCIENTIFIC AMERICAN, would amount to manymillions of dollars! We would state that we never had a more efficent corps of Draughtsmen and Specifcation Writers than are emplosed at present in our extensive Offices, and we are prepared to attend to Patent business of all kind in the quickest time and on the most liberal terms.

## The Examination of Inventions.

Persons having ooncervod an idea which they think may be patent able, are advised to make a sletich or model of their invention, and are carefully examined, and a reply written corresponding with the facts, free of charge. Address MUNN \& CO., No. 37 Park-row, New York.

## Prelininary Examixations at the Patent Office,

 The advice we render gratutously upon examining an invention does not extend to a search at the Patent Ofice, to see if a like invenion we may acquire of a similar invention from the records in our Home Office. But for a fee of $\$ \bar{J}$, accompanied with a model or drawing and description, we have a speciäl search made at the United States Paten Ofice, and a report setting forth the prospects of obtaining a Paten cc., made up and mailed to the Inventor, with a pamphlet, giving in structions for further proceedings. These preliminary examinations are made through our Branch Ofice, corner of $F$ and Seventh-streets, Washiugton, by experienced and competent persons. More than 5010 such examinations have been made through this ofllce during the past three years. Address MUNN \& CO., No. 37 Park-row, N. Y.Thow to Altake an Application for a Patent. Lery ipphcanifor a Pacent must furnish a model of his invention If suscenin of of which his composition must furnish sampies of the Piatent Oflice. These should be securely packed, the inventor's nare marked $\bullet$ 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 salest 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 thenr merchants on their New York correspondents; but, it
 mail, having the leter registered by the po a Co., No. 37 Park-row, New York.

## Caveats.

Personsdesiring to file a Caveat can have the papersprepared in th shortest time by sending 2 sketch and description of the inventie The gevernment 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 eecuring of Patents in the various European countries. For the transaction of this business, we have oflices at Nos. 66 Chancery-lane, London; 29 Boule vard St. Martin, Paris; and 26 Rue des Eperonniers, Brussels. We think we can satelysay that three-focrths 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 dees nct limit the issue of Patents to Inventors. Ang one can take out a Pateut there.
Circulars of information concerning the proper course to be pursued in obtaining Patents in foreign countries through our Agency, the requirements $\bullet$ : dilferent Patent Offices, dc., may be had gratis upon ap. plication at our mringene office, No. 37 Park-row, New York, or either of our Branch Ofices

## Rejected Applications

We are prepared to undertake the investigation and prosecution of reicton inglona xamis, very great. The principal portion of our charge isgenerally left de pendent upon the final result.
pendent upon the fill result.
All persons having rejected cases which they desire to have prose
cuted are invito correspond with us on the subject, giving a bries cuted are invi+e correspond with us on the subje
tistory of the case, inclosing the official letters, de.

## Assignments of Patents.

The assignment of Patents, and agreements between Patentees and manufacturers, carefuly prepared and placed upon the records at the Patent Office. Address MUNN $\boldsymbol{\&} C O$., at the Sc cientific 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 property or inventions to call tions regarding the rignts of Patentees, will be cheerfully answered Communications and remittances by mail, and models by expres (prepaid), should be addressed to MUNN \& CO., No. 37 Park-row, New York.

J. H. P., of Conn.-It is common to fasten strips of rubber or listing to the jambs of a door to prevent thedust and cold from entering and also to prevent slamming. Nothing patentable in your sugsestion.
H. J: H., of R. I.-Conical shot having spiral grooves on the cone are
ber of times.
J. R. G., of Ky.-By the new law which went into opera tion in 1861 the Commissioner of Patents is authorized, but not re quired, to return to heir oirners the models of rejected apprications, Bected medels jected models are now preserved with much care, in neal cabinets, and when they are tw years $\bullet$ d they are placed $\bullet$ n public exhibi west west wing of the Patent Onlce is now occupied by these models. They are not, as you suppose, "consigned to the bats and moles." rectly based. spirit towards inventers ther spirit towards inentors than that an applicant falls 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 bedy fall ing from the surface of the water to the level of the aperture.
Where the aperture reaches to the surface the velecty is 443 of the theoretical velecity at the lower ed of he allowance for the contraction of the vein. With an opening at the surface 4 inches deep and 24 mohes wide, yon will have 1367 cubic feet per second, equal to $32 \cdot 2$ feet per minute. Multiplying by $621 / 2$ you have $5,126 \mathrm{lbs}$. per minute, which falling 12 feet gives 61,512 foet pounds of work per minute, equal to 139 horse power. If your wheel yields 70 per cent you will have $11 / 3$ horse power-quite as much as any two horses will actuallyperform. If your load or re sist:mace is constant, a good turbine will be the best wheel for your
1nupose, but turbines are not recommended where the load is sub. $1^{112}$ pose, but turbines are not recommended where the load is sub . O.
M., of N. J.-Blind-hinges have been patented to keep the blinds open without the aid of catches. There are a numhave a plan eend us a sketch and we will examine it.
B. F. Griffin, of Manhattan, Kansas, wishes to open correspondence with patentees or manuffacturers of self.adjusting wind mills.
H. R. T., of Conn.-The London Engineer is a valuable journal; you can procure it through the agency of Messrs. Willmer $\&$ Rogers of this city. Bourne's Catechism of the Steam Engine, latestedition, you will find a useful practicalwork. We presume youran obtain W . of Pa . The fring of the
G. W. S., of Pa .-The firing of the charge at the center has been provided $f$ orin firearmsand ordnance by various arrangements of tubes. In smallarms the vent has been continued forward through the breech by permanently fitting the breech with a taper steel tube. In ordnance a tube filled win powder has been inserted at the vent, and such a tube has been constructed with branches to fire the charge at lwo points. We do not think there is any thing patentable in your invention.
H. O. P., of Mass.-We believe the first Mechanical Report 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 O. C. H., of Conn.-Plumbago for electroplating requires to be verypureand fine. All that has been used in the country has
been prepared by one man, Mr. Thoureau, and he has recently died. been prepared by one man, Mr. Thoureau, and he has recenty die
It was sold bv L. L. Smith, now 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 acia the partien of case metal a the surface wiil 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 in muriatic acid, results from the silver in the alloy being formed inte the chloride of stiver
J. P., of Mich.-The sediment which you find in your maple sugar pans was doubtless 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 Photography, is quoted very largely and with the highest respect by the European photographical publications. The editor and propfiet Prof. Charles A. Seely, is doubtless as thoroughly informed in rela tionto photography and the sciences to which it is allied as any man in the world. The work is published at 244 Canal street, thi $\$ 2$ per annum.
W. N., of Ill.-The usual mode of igniting gunpowder by electricity is to break the wire within the charge, and comect the ends by a short piece of very small platinum wire. On closiug the
circuit the platinum wire becomes red het, and fires the circuit the platinum wire becomes red hot, and fires the ponder.
J. B. C.: of Ill.-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 $30,000,000$; of France, $35,000,000$; Belgium, $5,001,000$ Austria, $40,000,000$; Prussia, $20,000,000$; and Russia, $60,000,000$. 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 ad vantage of these immense foreign fields. Mechanical improvements of all kinds are always in demand in 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 Nearly all of the patents secured in foreign commtries by Americans are obtamed through our agency. Address Muvn \& C© , 37 Park row, New York. Circulars about foreign patents furnished free.

## Money Received

At the Scientific American Office on account of Patent Orfice business, during one week preceding Wednesday, May 23, 1862:-
C. McN., of Pa., \$20; W. C. S., or N. Y., \$20; W. E. B. of R. I., $\$ 20$; P. S. C., of N. Y., $\$ 20$; P. P., of N. Y.; $\$ 20$; N. T. B., of Iowa,
$\$ 45$; G. L. T., of N. Y., $\$ 20$; G.MI. T., of N. Y., $\$ 20$ II. $\&$ D., of Vt., $\$ 45$; G. L. T., of N. Y., $\$ 20$; G. MI. T., of N. Y., $\$ 20$; II. \& D., of Vt.,
$\$ 20$; B. F. S., of Vt., $\$ 20$; S. R. B., of Ill., $\$ 20$ J. G. C., of Pa., $\$ 25$; . \& M., of Conn, $\$ 15$; A. S. B., of Conn., $\$ 15$; C. E. S., of Wis., $\$ 80$ H. M., of セ., $\$ 25$; C. B., of N. Y., $\$ 15$; H. M., of Mass., $\$ 10$; J. A.,
Jr., of Ill., $\$ 25$; B. D., of C $\bullet$ nn., $\$ 25$; W. S. H., of $\bullet$., $\$ 15$; S. S. B., Jr., of Ill., $\$ 25$; B. D., of Cønn., $\$ 25$; W. S. H., of $\bullet$. ., $\$ 15$; S. S. B.,
of $O ., \$ 25$ J. J. Y.. J., of Me., $\$ 15$; N. K. G., of Conn., $\$ 15$; W. H. O., $\$ 25$; J.G. Y.. J., of Me., \$15; N. K. G., of Conn., $\$ 15$; W. H.
, of Ind., \$"0; H. W. ©., of Conn., $\$ 25$; W.II.W., of N. Y., $\$ 15$; S. E. T., of Wis., $\$ 15$; C. A. M., of Ya., $\$ 25$; P. \& S., of Ill., $\$ 25$; C. M. A., of Pa., $\$ 25$; J. II. II., of N. II.. $\$ 15$; W. J. J., of Ind., $\$ 10$; I.
T. P., of Mass., $\$ 15$ A. L. W. of Mass., $\$ 250$ J. A. McC. of N. Y., 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 I七wa, $\$ 10$ J. B. D., of Conn., $\$ 35$; I. R. S., of Va., \$15: W. C., of Pa., \$25; II. M., of N. H., $\$ 25$ J. E., of N. J., $\$ 55$; G. E. H., of N. Y., $\$ 25$; 'T. V. N., of Inl. $\$ 25$; W.
W. K.; of Pa., $\$ 10$; B. Bres., of N. J., $\$ 15$; J. H. \& G. W. $\$$., ol' N. W. K., of Pa., $\$ 10$; B. Bros., of N. J., $\$ 15$; J. H. \& G. W. S., ot N.
Y., $\$ 15$; J. H. T., of N. J., $\$ 15$; E. C. G., of Cal., $\$ 50$ G. P. B., of Y., $\$ 15$; J. H. T., of N. J., $\$ 15$; E. C. G., of Cal., $\$ 50$; G. P. B., of
$\mathrm{Pa.} \$$,25 ; W. G. R., of Pa., $\$ 22$; H. C. J., of Me., $\$ 25$; C. O., of Ill., $\$ 25$; R. P., of Mass., $\$ 35$; S. H., of Pa., $\$ 30$; A. R., of Iown, $\$ 40$; J. P. S., of Mich, $\$ 25$; A. I., of Pa.. $\$ 15$; E. T., of Pa., \$15. ; R. II., of Ill., £15; M. C. B., of Minn., $\$ 15$; C. B., of Iowa, $\$ 15$; 1. \& G., of N.
Y. $\$ 225$ J. M. \& W. C. W., ©Iowa, $\$ 15$. B. R. A., ○ N. Y. $\$ 10 ; \mathrm{J}$. Y.: $\$ 225$; J. M. \& W. C. W., or Iowa, $\$ 15$. B. R. A., ©f N. Y. $\$ 10$; J.
A. McC., of N. Y., $\$ 25$; W. F., of Cermany, $\$ 56$; G. B. O. of N. Y., A. HcC,
$\$ 15$.

Specifications and drawings and models belonging to parties with the following initials have been forwarded to the Paten Onice from May 21 to Wednesday, May $2,1862-$
B. D., of Conn.; G. B., of N. Y.; W. C., of Pat. ; J. B. D., of Cenı.; J. H. G., of Pa.; W. F.. of Germany (2 cases); J. A. McC., of N. Y.;
A. S., of N. Y.; G. R. B., of IIl. ; C. M. A., of Pa.; S. \& F., of Pa.; H. W. ©.. 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. IL.; (C. G.
L., of Del. ; H. M., of Miss.; C. B., of N. Y.; B. R. A.. of N. Y.; C. L., of Del. ; H. M., of Mass. ; C. B., of N. Y.; B. R. A.. of N. Y.; C.
E. S, of Wis. (2 cases) ; J. W. W., of Mich.; J. I. S., of Mich. ; II. C. E. S, of Wis. (2 cases) ; J. W. W., of Mich.; J. I'. S., of Mich.; II. U.
L., of Me. ; D. F. H., of Mrch.; G. P. B., of Ia.; C. ©., of Ill. ; S. I.. of Pa. ; E. C. G., of Cal. ; G. E. H., of N. Y.; R. \& P. of Mass. ; N

## 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 accompthy the when two good drawings are all that is required to accomptily the petition, specification and eath, except the gevernment 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 pat entee and date of patent, when known, and inclosing $\$ 1$ as fee for copying. We can alse furmsh a sketch of any patented machine issued
since 1853 , te accoles \& CO., Patent Solicitors, No. 37 Park Row, New York.
Receipts.-When money is paid at the office for subscriptions, a receipt for it will always be given ; but when subscribers remit their money by mail, they may consider the arrival of the firs 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 ol Instructions to Inventors, containing a digest of the fees required under the new Patent Law, dc., printed in the German janguage, which persons can have gratis uponaenli cation at this office. Address

MUNN $\&$ CO.,
No. 37 Park-row, New Yor
Back Numbers and Volumes of the Scientific American, VOlUMES I., IL., III., IV., V. (NEW SERIES) COMplete (bound or unbound) may be had at this office andfrom all peried-
ical dealers. Price, bound, $\$ 150$ per volume, by mail, $\$ 2$-which inical dealers. Price, bound, $\$ 150$ per volume, by mail, $\$ 2-$ which includepostage. Price, in sheets, $\$ 1$. Every mechanic, inventor or ar-
tizan in the United States should have a complete set of this publicatizan in the United States should have a complete set of this
tion for reference. Subscribers should not fail to preserve their num tion for reference
bers for binding.
We areprepared 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 telivered at the office, 40 cents.

