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29:751.-W. H. Allen, of Brooklyn, N. Y., for an Improvem ent in Elevators for Store-houses: I claim the arrangement and combination of the two double-
threaded screw shafte, D , sididing blocks, c . bars, B . platform, C ,
 [This invention consists in the employment of extension levers or oints, with right-and-left screws for distending or contracting the joints, which levers act upon the hoisting car, and move it up and down in grooves in guide timbers that extend perpendicularly from
the bottom to the top of the building, the whole being arranged in the bottom to the top of the building, the whole being arranged in such a manner that by turning the right-and-left screw shaft the platform may be elevat
29, 752 .-James Alsop, of Clinton, Ill., for an Improve ment in Seeding Machines:
 X, nnd boxes, $V$ provided with the valwes, $q$, and a atuated through
through the medium of the arms, relevers,
the pins, weighted arm, $Y$, and the pins, W, on the wheels, $U$, as and for the, nurpose set forth
Second, In combination $w$ the the wheels, $S$, $U$, and boxes, $V$, the specond, In combination with the wheels,
sowing of , and hopper, R. When arranged as shown to ades mit of the
soed either in hills or drills or broad-cast, as may be sowing of
desired.
[This invention relates to certain improvements in that class of seeding machines which are designed for general use-that is to say, for planting various kinds of seeds, and elther in hills or drills or broadcast, as may be required. The invention consists in a novel seed-dietributing arrangement, and also in a peculiar arrangement
of means for regulating the depth of the plows, whereby a veryeficient implement is obtained for the desired purpose.]
$\mathbf{2 9 , 7 5 3}$ - E. S. Bacon, of Albion, N. Y., for an Improvement in Beehives:
I claim a beehive constructed of cslindrical form, when provided
with combframes, With combrames, E, constructed substantially is shown, to conform
to the interior of the live, for the purpose specified.
I further claim the fla iches, a, when grooved at their under sides If further claim the flanches, a, when grooved at their unde
and attached to the base, C , as and for the purpose specified.
[The object of this invention is to obtain a hive that will admit of the bees remaining in a compact state within the hive, and still have access to all parts thereof, without materially
29,754. -Edward Badlam, of Ogdensburgh, N. Y., for an Improvem ent in Seeding Machines: Ing claim the combination and arrangement of harrow teeth, operat
ing as described, with the shaking seed hopper, $G$, all receiviug ing as described, with the shaking seed hopper, $G$, all receiviug
their motion from the two driving wheels, $\mathbf{A}^{\prime} \mathbf{A}^{\prime}$, as used for the pur-
posea set forth. pose set forth.
[This invention consists in arranging in a suitable frame, mounted at its rear end on driving wheels, between which may be placed a large cylinder that serves for a roller, a number of rockshafts
parallel to each other, which shafts carry the harrow teeth that reparallel to each other, which shafts carry the harrow teeth that re-
ceive a transverse rocking motion as the machine is drawn along from the driving wheel as will be hereinafter described; and in con$j$ unction with such a harrow it consists in the emplogment of a long seed box or hopper arrangedeither in front, in the middle, or in the for equitably scattering the seed, while the rocking teeth hariow them in or prepare the soil for their reception.]
29,755.-F. S. Barnard, of New York City, for an Improved Automatic Terrestrial Time Globe:
I claim, first, The arrangement in combination with the clock
movement, $D$ of a revolving terreetrial plobe, A, on an inclined axle, movement, $D$ of a revolving terreatrial globe, A, on an inclined axle, If as and for the purpose set forth.
Second The arrangement of the in
the revolving arrobe, A, and with the bow, $F$, congtructed and nperatin rubsing giobe, A, and with the bow,, , constructed and nperat-
in mibstantaly in the manner and forthe purpoge gpecified.
Third. The arrangement of the fixed hand or Third. The arrangement of the fixed hand or pointer, $J$ on the
toothed ring, $G$ in combination with the rotary ringe, $\overline{\text { and }} M$, or
their equivalents, constructed and operating substantially as and their equivalents, constr
for the purpose set forth.
29,756.-H. M. Bearce, of North Auburn, and L. C. for Cutting and Swaging Shoe Tips:
We claim the die, $I$, constructed in the manner described, and in combination with plunger, K, operated by cam, L, gravity or adjust-
able percussive force, or both, the latter being imparted to the able percussive force, or both, the latter being imparted to the
nluger by screw. E , and helical spring, Q, or otherwise, for swaging
the tip, essentially in the manner and for the purposes fully set forth.
We also claim the cutter, Ja, stamp, K2, and die, N2, constructed
and arran ged as deacribed, for cutting the blank, when combined
 We also claim the combination of the tube, PR , stand Qa, and slide
bar, R2, operated by cam orotherwise, to receive and fearthe blanks
direct from the cutting die to the swaging die, essentially as set
forth. forth.
We also claim the rod, R, and its plate, To guide plate, 8 , and heli-
calspling, U , combined with die, I, the ron,
pcreussiveforce to being operated bry pcrcussiveforce to throw the swaped tip from th
29,757.-David Bissell. of Detroit, Mich., for an Im provement in Crimping Machines:
I claim the supplemental Jaws, E E, with their luga, as described,
in combination with the jaws,
B, levers, $G$ G, and treadle, $H$, arranged, oombined, and operating in the manner set forth.
Cressure to the Jaws, and at the same time atretching the leather tightly at the instep portion. It further consists in putting the tightly at the instep portion. It further consists in putting the mit of Iateral adjustment, and at the same time yield to the inequalities in the thickness of the leather front during the operation of crimping.]

29,758. -Thomas Black, of Princeville, Ill., for an Im provement in Cultivators:
I claim the arrangement of the elastic traverse bow bar, $\mathbf{C}$, adjust-

[The object of this invention is to obtain a cultivator that may be used for plowing or operating among plants of various hights without injuring the same, due provision being made against the breaking down of large plants by the passing along of the implement, and suitable protection being afforded small plants against stones, clods, The invention also has for its object the equalizing of the draught, so as to insure equal pull
29,759. -Thomas Board, of Ripley, Va., for an Im-
proved Shoe-cleaner:
I claim the arrangement of the rising and falling slide, $\mathbf{C}$, in com-
bination with the side jaws, $\mathbf{B} \mathbf{B}$, constructed and operating subatantially as and for the purpose set for th.
[This invention consists in arranging a rising and falling slides in combination with two spring side jaws in a suitable frame fastened to the doorstep or to any other convenient place, in such a manner that if a boot or shee is placed between the spring jaws and the vertical
slide is depressed on the instep, and the foot is now drawn backwards, the mud adhering to the boot or shoe is cleaned off on the top as well as on the sides.]
29,760.-Reinhold Boeklen, of Brooklyn, N. Y., for an Improvement in Hammers.
I claim, first, So magnetizing or applying magnetism in connection with a hammer that it may be capable of picking up tacks or nails,
and inerting them in wood or other material, aubstantially as de. scribed.
Second, Coating the whole head nf the hammer, so magnetized or rendered magnetic, with the excenf ion of the face and opposite end
with poorl yconducting material, substantially as and for the purpose with poor
specified.
29, 761.-L. Bradley, of New York City, for an Improvement in Telegraphic Apparatuses:
I claim, first, The combination of a lielix with a core arranged to pass throughits center and around and in close proximity to its sur-
face, with the poles also in near proximity to each other, for the purSecond, The combination of a magnet constructed substantially as described with a keeper arranged parallel to the legs of the magnet.
and in close proximity to the perlphery of tho helix for the purpose set forth. Thi combination of the armature, or its equivalent, for breaking and closing the circuit, with two springs arranged to act on
each other in opposite directlong for the purpoeeset forth
Fourth, The combination of a sectional 1 helix with a double switch,
arranted substantially an described for the prupose set forth Franged substantially as described for the pnrpose set forth.
Fifth, The combination ofa vibrating armatnre, orits equivalent,
closing and breaking circuits with a soundingeboard and tengion wires, arranged substantially as described for the purpose set forth Sixth, The combination of an electro-magnet with an armaturc
suspended by its center betwean the poles of the magnet, so as to
come in contact with both poles at the same time. 29, 762. -G. W. Brown, of Galesburg, Ill., for an Improvement in Cultivators:
I claim, first, So combining the frame wheels and plows with the
evers, $L$ M. as that the driver or operator, from his seat may turn or cramp paid frame, wheels, and plows on the tongue, to cause the
nlows to follow the crooks in the rows of plants, substantially as described.
I also claim so combining the seat and tongue with the frame and
with an axle set in advance of its sulyports in the wheels, as that the driver or operator in his seat, by shifting his weight, may raise, hold
up, and lower the plows, substantially as described. up and lower the plows, substantially as described.
I also $\begin{aligned} & \text { claim, in combination with the plows, the convex cutters or } \\ & \text { shields, } \mathrm{N}, \text {, when constructed, arranged and operating as set forth. }\end{aligned}$ 29, 763, -T. S. Brown, of Philadelphia, Pa., for an Improved Oscillating Ships' Berth:
I cuaim, first, The arrangement of a rockehaft, $D$, crossbars, $E_{\text {, }}$
and suaspenion rods, $H$, in combination with a boat berth, for the
purpose of neutralizing the motion of a ship, substantialls as set forth.
Second, The arrangement of hinged boards, 3412 U L L , corks,
9101112 , and air-tight tubes, J , forming a berth and lifeboat, sub-
stantiallyas set forth.
29,764. -George Buchanan, of Hickory, Pa., for an Improvement in Self-acting Wagon Brakes:
 ranbina, combined, $c$
the purpose set forth.
29,765.-A. H. Burdine, of Chulahoma, Miss., for an Improvement in Cotton Gins:
I claim cutting a a a a a a part of the upper portion of the breast of a there shall be a horizontal opening across the br east the full width
of the saws and of less depth than the size of a cotton seed, and so of the saws and of less depth than the size of a cotton seed, and so
that the teeth of the saws shall extend a ahort distance beyond the
unper end of the ribs of the breast and into the horizontal opening. ubstantially as and forthe purposes described.

28,766. -L. S. Chichester, of New York City, for an
Improved Meat and Vegetable-chopper:
I claim the combination of the bowl, A, of circular or semi-circular
form, and the radius knife frame, D, zo applied as to admit of a
rising and falling movement and also a lateral one, as and for the rising and falling movement and also a lateral one, as and for the
purpose set forth.
I further claim, in combination with the bowl, A, and knife frame,
D D, the plate, C , applied to the bowl. and arranged relatively
knite frame, D , to operate as and for the purpose set forth.
[The object of this invention is to obtain a simple, efficient and conomical implement for the purpose of chopping meat and vegethe kitchen, to occupy but little space, and to require but little labor to manipulate it.]
29, 767.-A. M. Chisholm, of Antigonish, Nova Scotia, for an Improvement in Sinecal Quadrants:
 squares of tenths each way, and having a kraduated quadrant, $E$, in
one of the four corners, the radins of which quadrant extends of the sub-divisions or sixteenths of the sides of the square, and aleo
provlded with an index, , marked as described, and pivoted to the
square in the vertex of the single, sareeing with the quadrant and square in the vertex ot the angle, agraeing
otherwise made as shown and described.
29,768. -Theodore Christian, of New York City, for an Improved Rotary Cutter Head for Planing Machines:
I claim, first, The combination of a rotary cutter and planingliron
with an adjusting screw and nut, arranged to pass through the iron ubstantially as described, whereby the cutters may be drawn out or Second, The combination of a rotary cutter head a planing iron
and a clamping inon, arranged as described, to hold the iron to the
hend and nre
head and nreventaits apringing.
Thi rd, The combination of series of cutter heads and a series of
sutter, conetructed and arranged on one oha
cribed, ellbetantially as de-
also so that the position of the heads and cutters may be changed 12
relation to each other on the shaft, in order toproduce a great variety of perfect corn nound moldings with a few varieties of cutters. saw arranged on the same shaft, so that it can be trumed and the posi-
tion of its arnus, in relation to the cutterknives, changed as required, tion of its arus, in relation to
for the purpose as set forth.
29, 769. - Edward Conway, of Dayton, Ohio, for an Im-
provement in Heating and Cooking Apparatuses: I claim, first, The arrangement of valved compound burnerg, $\mathbf{C}$ E
e.
poses set forth.
second, The compound burner compnsed of a wick, t , and circular
series of jete, u, communicating with the alcohol boiler, as set forth. 29,770.-Arthur de Witzleben, of Washington, D. C., for an lmprovement in Holding Doors Open :
 $\underset{\text { specified. }}{\text { E, bottom }}$
20,771.-J. C. Dickey, of Saratoga Springs, N. Y., for I claim the projections, c, made on the baase and under-side of the
revolving cone, E, working in one or more channels made
 29,772:-T. S. Disston and Henry Disston, of Philadelphia, Pa., for an Improved Machine for Setting Saw Teeth:
We claim, first, Causing the saw blade to traverse over the anvil
by neans of the rotating cog-wheels, $S$ and $S^{\prime}$ the same being ren by nieans of the rotating cog-wheels, S and $\mathrm{S}^{\prime}$, the same being ren-
dered adjustable In respect to the platform, P , by the devices de-
scribed, or by any other equivalent mechanis, for the pur scribed, or by any other equivalent mechanism, for the purpose spe-
cified. Second, We claim, In combination with the said conical cog-
wheela, two or nurre hammers moving sinultaneousli, and being so arranged and furnished with such adjusting appliances that the
lieads of the hammer mar be ajusted in respect to each other and
to heads of the hammer mas be adjusted in respect to each othe
to the zaid conical cog-wheelf, as and for the purpose set forth.
Third, We claim the platform, $P$, secured to the pemanent Third, We claim the platform, $P$, secured to the permanent frame
and rendered adjustable thereon, substantially in the manner and for the purposeset forth.
Fourth, The guide plates, $p$ and $p^{\prime}$, arranged in respect to the plat-
form, $P$, nid rendered adjustable in respect to the conical cog form, $\mathbf{P}$, and rendered sdjustable in respect to the conical cog-
wheels,
Fifth, The combinaty ation of of the the for the purpose specified. 29,773.-H. T. Douglas, of Zanesville, Ohio, for an Improvement in Sugar Cane Mills:
I claim, first, Constructing on the top and bottom plates of a sugar
mill V-shaped inclined planes which come between the rollers and
prevent the cane from working between the ends of the rollers and
 tially as set forth.
Second, The combination in a sugar mill of the inclined iprojec-
tinns, rr, elliptical boxes, $\mathbf{g}$, with ghouldere 1 , and the feed plate, the Fhole constracten, arranged and
teribed for the purposes set forth.
29,774.-D. E. Fenn, of Tallmadge, Ohio, for an Improved Gate:
I claim the arrangement of the inclined planes, H
L , extending
arross the open space between the posts of the
 the inclined nlanes, H $H$, while the rear end of the gate will ride
upon the horizontal rod, I, and eo that by pulling upon either of the
ropes the gate will be opened or closed, being moved partly by the ropes the gate will be opened or closed, being moved partly by the
force applied and partly by its own gravity in descending the in-
clined planes-all as specified.
29, 775.-Frederick Fidler, of Batavia, N. Y., for an
Improvement in Stalk and Root-cutters: I claim, first, In connection with the knives, $E$ E, the scorers, $G$,
for the purpose specified.
Second, The serrated, reciprocating plates, 11 , operated through Second, The serrated, reciprocating plates, 11 , operated through
the medium of the treadle, $H$, link, $j$, lever, J, and arms, $K \mathbf{K}$, for
the purpose of feeding the substance to be cut to the cutters. [This invention relates to a certain improvement in that class of stalk and root-cutting machines in which knives are attached to the side of a wheel. The invention consiste, 1st. In a peculiar shape or form of the knives, by which a regular or even cut is obtained. 2d. In a novel way of adjusting the knives. 3d. In the use of scorers in connection with the knives. 4th. In a novel feeding device-the cient and easy-working machine for the intended purpose.]
29,776.-J. F. Finger, of Marion, S. C., for an Improved Circular Table
I claim a circular pedestal ta ble furnished with a rod, $G$, step bear-
ing, $\mathcal{G}$, and foot leverat $E E \in \mathbb{E}$, and otherwise constructed in the
manner and for the purposes set forth. manner and for the purposes set forth.
[This invention consists in hanging a circular top table, caaving under ordinary circumstances, and whenever desired it may, by under ordinary circumstances, and whenever desired it mas
placing the foot on certain levers, be rotated on its pedestal.]
29,777.-F. G. Floyd and E. A. Floyd, of Macomb Ill., for an Improvement in Corn Planters:
We claim the combination with a seed-planting frame constructed
as described of the seed slide, a, vibrating arm, c , receiving its mo ton from arm, $d$, the wheele, $g^{\prime} g^{\prime}$ and shaft, $h^{\prime}$, arranged in the manner and for the purpose set forth.
[This invention is an improved corn planter for opening the fur-
ow, dropping the corn and covering two rows at the same oneration. row, dropping the corn and covering two rows at the same oneration. The machine is provided with adjustable plows or shoes which open the furrows, for regulating the depth required to plant, that are con-
trolled by the driver. The invention provides for carrying in the trolled by the driver. The invention provides for carrying in the hopper a large aupply of seed, which may be let into the dropping
boxes in small supplies, regulated according to the quantity to be deposited at each movement of the seed slide, thus preventing the eed apertures or the boxes from choking up in consequence of the reat body and, necessarily, weight of seed. Provision is made for
turning the machine and for starting or stopping the motions of the turning the machine and for starting or stoppi
dropping device at the option of the driver.]
29,778. - L. H. French, of Philadelphia, Pa., for an Improved Car Register:
I claim the combination with the turn-stile arranged substantially bar, G', with its spring pawl, $c$, and ratchet wheel, $G$ combined

29, 779.-Ransom Gilbert, of Morrisville, $\mathbf{V}$ t., for an Improved Clothes-dryer:
I claim the arrangement of the india-rubber straps, $D$ D $D$, and
ing, $f f$, with the hubs, $H$ H. and Btandard, alms, blaces and 29,780.-Joln Goulding, of North Wilbraham, Mass., for an Improvement in Cotton Gins:
I claim, first, The concave or apron, O, in connection with the hown for the purpose described.
Second, The combination of the toothed plates, $L_{\text {, }}$ comb wheel,
c, concave or apron. $\mathbf{O}$, grinirer F , and beater wheel, $\mathrm{H} \rightarrow$ aid parts , concave or apron, $\mathbf{O}$, sirf of prer F, and beater wheel, $\mathrm{H}-$ said parta
eing constructed as shown for the purpose set forth. [The object of this invention is to obtain 2 machine by which cotton may be ginned or separated from its seed; the machine per
forms its work in the most efficient manner without injuring the fiber of either the cotton or wool, bnt leaving the same in a lone light state most favorable for snbseqnent manufacture.]
29,781.-C. A. Gregory: of Poughkeepsie, N. Y., for
an Improved Apparatus for Filling Bottles I claim a machine for filling bottles and other vessels, constructed
and operating substantially in the manner deseribed, whereby any
 quantity of liqu
$t y$
, as set forth.
29, 782.-Stuart Gwynn, of New York City, for an Improvement in Spading Machines: I clalm, first, The emplovment, in eombination with the spades
and for opersting them, of double cranks arranged to move in reand for opersting them, of double cranks arranged to move in re
verise directions and kiving a compound action to the spade or spade essentially as specified.
Second, Providing the
Second, Providing the spade stock or holder with a spring atop or
stops so constructed and arranged as to be capable of being thrnst stops so constructed and arranged as to be capable of deing thrnst
away or to $\begin{aligned} & \text { gide side of the spade in its deocent or digging atroke } \\ & \text { to avoid striking a etone or other in ervening obstacle canculated to }\end{aligned}$ to avoid striking a stone or other in ervening obstacle calculated to injire it and permitting of the yield or rise of the spade theref rom
nuaputhtinnly as shown and deecribed.
Third, Conatruetiap and arranging the spade stock or helder as Third, Congtructiog and stranying the apade stock or holder as equivalent thereof, so that the spade, in its reciprocatlng or longiand made to asaume different positions relatively to the line of cut cesentialy as set forth.
Fonrth, Causing the afe, after it has Deen pushed into its stock
or holder by meeting with an obstacle in its descent, to be antomaticor holder by meeting with an obsatacle in it descent, to be antomatic-
ally returned toits. proper poeition for further work, durin the re-
treat of the holder, py means of the name device or pin winh, in
 ensentinill as deativibed.
Fifthe spade or spade blade with an articulation joint for action when in che goll or when freeing itself therefrom, and
during the backward thrust or throw of the spade, to avoid in jury or breakage from ston csor other like obstacles in the soil.
29,783.-L. W. Harris, of Waterville, N. Y., for an Improvement in Presses:
I claim the employment of the open follower bars, 11 , in combin
ation with the hnged rack, $C$ C. attached to the bed as ghown and described, so that the said racka will erve as gnides to the follower and so that they can be readily turned down to a horizontal posititon
away from the presi when not required for operation, all as set forth.
Alsm Tha combination of the pawla, m n, when conneted by
 operated at each movement of eit ber of the levers, E, and so that
that he cylndera, er may be removed together with the pawls and
lever mhenever desired, as set forth levere, Ew whenever desired, 28 set forth.
Also, The arrangerent of the axem of the pawls, on $n_{1}$ within the
circumference of the hollow cylindera, $\theta^{\prime}$, as and for the purpose circumference of the
bown and
thescribed.
[The object of this invention 18 to obtain a simple, efficient, and rapidly-working press for manual operation-one that will admit of a vers ready applicaion of power and mas have the snustance to bo pressed reainy placed into the preas box and removed therefrom
with facility when com ressed into bals form. T e Invention 18 more partifularly designed for compreselng hope, but it may be nsed for compressing hay, cotion or other snbstances whic are generall

29,784.-James Harrison, of Troy, N. Y., for an Im proved Apparatus for Ringing Bells:
claim distribating the blown of the hammer or clapper of a bell along or aronnd the sonnd bow or circumference of the bell, zub-
stantially as deacribed, by nrning the bell or its clapper or hammer stantialy as deacribed, by nrging the bell or its clapper or hamme
by the action of the bell-ringing mechanism in sounding the bell atibstantially as described.
29,785.-David Haskell, of Georgetown, Mass., for an
Improvement in Sewing Machines:
I claim the arrangement of the isolated, upripbt post, $C$, with the
notched, movable plate, $F$, in the manner and for the purpose shown and described.
29,786. -Simson Heywood, of Claremont, N. H., for an Improvement in Operating Railroad Switches: 1 claim the combination of a pivoled, slotted knee or tumbler with
a traversine bar and stud, for hie vurf page of operating the switchea
of railroads substantially as deacribed
29,787.-P. B. Holmes, of Cincinnati, Ohio, for an Improvement in Rotary Engines:
I cisim the degcribed combination of collars, $\mathbf{H}$, heads, $\mathbf{K}_{\text {, }}$, and
packing chambers, I, oonsifruterd, arranged and operating in connection with th
pose explained.
29,788.-C. B. Horton, of Elmira, N.Y., for an Improve ment in Machines for Hulling and Polishing Rice: I claim, first, Constricting the concaves of hulling machines of
fiexible oteel plates having a flerible ili ing, constructed as deacribed
in combination with elatic aprings, in the manaer and for the purpose epecified,
Second, The combination of the hopper, b, cylinder, $B$, and
creen, $\mathbf{C}$, or its equivalent, when so conit ructed and arranged in


## forth.

29,789. - E. S. Huff, of Zanesville, Ohio, for an Improvement in Cultivators:
 29700 George
790.-George Hull, of Port Crane, N. Y., for an Improvement in Cattle Ties:
I claim intbedding the spring, a , in the body of the snap by form-
ing the later with side pards
otantial gas atantial gas mhown and ancaribed.
Also, Conatructing the constracted and arranged sub
curvilinear or other equivalAtso, conatructing the clasp body of curvilinear
ent form in direction of ist lenthe and providine
spiral rooves or riba, f, pubuenntialiy as set forth.
29,791. -Solomon Hunt, of Danville, Ind., for an Improved Washing Machine:
 Fhereby one weight ansers for producing
the beits and npon the clothes as set forth.
[Thisinvention c naista in a novel arrangement of pressing rollers and endless aprons that are arranged within a suitable box and acted npon by a weight, so that the artlecles to be subjected to the washingo eration will be alternately passed down into the water contained in the box or tnb and subjected to a pressure which will have the effect of cleaning them with great rapidity.]
29,792.-G. K. Hyde, of Brooklyn, N. Y., for an Improvement in Operating Railroad Switches

[This invention is designed for city and other railroads on which the cars are drawn by animais. The object of the invention is to place the operatiog of the owitches under the complete control of the
driver, thereby dispenaing with the services of switeh-tenders and the troable and embarasament attendidg the negligence of the anme.]

29,793.-W. A. Ives, of Nev Haven, Conn., for an Improved Auger:
I claim the combination of tho double twist with two cutting hori-
zontal or floor lips

29,794.-Samuel Kennedy, of Hibbetts, Ohio, for an Improved Apparatus for Feeding Sawdust to Furnaces:

 which aleo connectsthe the pirrup and the frame, K , together-all as se
forth, for the purpose peifioe
29, 795.-G. S. Kinsey, of Reading, Pa., for an Improvement in Horse Rakes:
I claim, first, Th9 stationary mortioed cleaners, 44 , when used
for the double purpose as cleaners and tooch gnides, get forth. The purpose no
Second

29,79G.-W. M. Knight, of Buffalo, N. Y., for an Improved Sad-iron.
 abbstan
cified.
[This invention and improvement consists in jointing ne of the legs to the horizontal or holding art of the andle, and in operating this jointed leg by a supplemental rotating handle having a ferule on its end, with an oblique slot cut in it in such a manner that the ends of the legs will be distended or made to approach each other, and locked in recesses formed in the "flats," or detached from the flats at plensure.]
29,797.-E. D. Lady, of Nashville Tern.. for an Improvement in Straw-cutters:

29, 798.-R. Little, of Middle Branch. Ohio. for an Improved Coffee-roaster:
I claim the combination with the oval and divided shlel, A, of the
series of endiese, reversed, inclined ribe, e $e$, arranged and openating
29,799.-Samuel Maitland, of Fort Wayne, Ind., for an Improvement in Beehives.
 Second, The queen celle, h', attached tothe hive substantlally as
and for the purpose eet forth,
 meribed.
[This invention relates to means employed for facilitating the swarming of bees and the dividing of swarms, and also the $r$ per istsin the use of a swarming pole, queen-bee cells, and feed box whereby the desired end is attained.]
29, 800.-F. H. Manny, of Rockford. Ill.; for an Improvement in Harvesters:
I claim the arrangerant of the binged cap or bonnet. D, and shoe,
C, in relation to each other and to the mechanism operating the cut
29, 801 - M. H. Mansfield, of Ashland, Ohio for an Improvement in Seeding Machines:
I claim the described special arrangement of the teeth and deflect-
ors, $G$, when these latter are composed of an elactic substance and perating substantially as set forth.
29,802.-Elisha Matteson, of Brooklyn, N. Y.; for an
Improvement in Converting Recidrocating into Ro-
tary Motion:
I claim, first, The reciprocating ratchets, $G$ and $H$, in combina-
tion with the ratchet whee, $E$ when the same shall be alranged in
con conjunction writh and operated, by the lever, B, and cam guide in
and $J$, or by means substantially the same and for the purpose speci-
 T, Third, In combination, with the ratchets, $G$ and $H$, and ratchet
whee, I, I claim the friction wheel, O, handle, $P$, and apring, $Q$,
arranged and operated for the purposedescribed.
29,803. -James McLaughlin, of Duncannon, Pa., for an Improvement in Seed Planters:
 cobstantially as and for the purposes set forth.
Second, The arranement of slotted standards, $N$ and $\mathbf{R}$ R. of the

 29,804.-M. D. Meriwether, of Denmark, Tenn., for an Improvement in Harrows:
I claim, in combination with a slotted transverse arched beam, $\mathbf{A}$ two or more adjustable harrows and harrow-blocks, when constructed
and arranged substantially in the manner and for the purpose decribed
9,805.-John Middleton, of New York City, for an Improved Window-washer
I ciaim the window-washer deacribed, as a new article of manu
facture, the same consisting of a brugh, B a reservoir of changeabl facture, the same consisting of a brush, B, a reservoir of changeable
capacit, C, on or near the eame level as $B$, the opening, , between
Cand the front of $B$, and the rod, $G$, or its equivalent, whereby $C$ is
 set forth.
29,806.-W. H. H. Miller, of Williamsport, Pa., for an Improvement in Railroad Car Couplings:
I claim the employment of hooked lovers, D H D H, centered at
K K and the connecting links, E E, between them on the track,
and the adjubtable Knee, 1 I, on the body of the car, arranged to op-
erate to
29,807.-J. R. Mills, of Bloomfield, Iowa, for an Improvement in Seed Planters:

29,808.-G. R. Moore, of Pittsburgh, Pa., for an Im*
proved Gage for Double-seaming Machines: proved Gage for Douple-seaming Machines:
1 claim the rotary disk, riface of the gage, $m$; also, the adjuitable
arbor, $i$, or any other equivalents.

29,809. - Alex'r Mor ton, of New York City, for an Im1 proved Machine for Rolling Gold Pens:
11 claim, first. The c nnecting of the axes of the rolls, $C$ D $D$, by
means of the couplings, $f$ whennald rolls are arranged anbstantially as and for the purpose opecified.
Second
Second, The forming of the eccentric portions, b, on the lower
olls, D, other, that the bite of the rolls may act consecntively at differen points on the blanks and produce the differential pressure, as set Third, In connection with the train of molls, $\mathrm{C} D$, the guides or
fied. E , placed relatively with the rolls, as and for the purpose spe-
29,810-H. G. Nelson, of Lockport, N. Y., for an Improvement in Water Wheels:
I clajm the arrangement of the gates, I I, shaft s, H H, and sec-
ors, J, with the Bhaft, D, vent, C, and case, A: ail as shown and
described, for the $p$ rpose set forth.
[This invention consists in a novel and improved manner of contructing the wheel, wherebya very cheap, simple and durable Theel, with oblique or tangential buckets, is obtained. The inven ion also consiste in an improved gate, arranged and applied to the croll so as to regulate the discharga of the water therefrom, and it consequent action on the wheel.]
29,811.-J. L. Newton, of Black Brook, N. Y. for an Improved Quilting Frame:
Irame claim the combination with Btandards, $A$, $A$ of the quilting
frand of bare, $B$ and pawla, and otherwise constructed and key ed to the standards. , as and for the purposes set forth.
[The object of tbis invention is to construct a quilting frame that may be extended or contracted, to adapt it to quilts of different sizea, and which may be closed up so as to occupy very little space. The vanion consists in jointing the arms and bars to which the quiti achea to the tep of two upright standards, in such a manner tha frame may be foldod-up-or, rather, placed in a perpendicula ate-when not in immediate use, and so that it may be locked rigid Is in a horizontal state; and it consists in farnishing the quilting rame with rollers and agjustable arms, arranged and combined in ally.]
29,8 12.-N. A. Patterson, of Kingston, Tenn., for an
Improvement in Grain Separators:
I claim spur wheel, $J$, ninionp, $n$, shatte, $m$, and fan of the double

[This invention has for its object the combining of a more efficien creening device than usual with a stronger blast-generating mechan m, so as to obtain a more thorough separation of the grain from for eign substances, and

29,813.-David Pennoyer, ${ }^{\prime}$. North East, N. Y., for an Improvernent in Car Seats and Couches
I claim, first, The combination, with each otherand with the seat
A, back, E, and sloted pronged bar $C$, of the bars, 2 an in the man ier and for the purpose shown and describe d.
Second, The arrangement of the folita
on
 boards, $G$, will fold inward, and thic plattorin, w, will rise to the roof
of the car, and, by releasing the cirds, the plationm will descend to
its place; all as set forth.
[The object of thisinvention is to obtain an arrangement of seata and adjustable platforms whereby comfortable seats are provided for day-travel, and comfortable berths or couches for night-travel; the can admitting of accommodating as manypersons with couches a be provided with seats can also be provided with berths or conche with proper divlsion boards.]
29,814.-J. G. Perry, of South Kingston, R. I., for an proved Sausage-filler:
I casim the combination of the vane! and case; substantiaily an
described and for the purposes eet forth and
39,815.-R. S. Potter, of Chicago, Ill., for an Im? provement in Car Couplings:
means of two link, krangement for coupling the projectiong. From the side by Second, The arraugement for connectine ping, 1 i. the shoulders, g , and the bolt, a . Third, The arrangement for inserting the bolt or bar, b, and hold-
ing it in place, without nut or screw, by means of the bolt, a, sub-
stantially as set forth and specified.
29, 816.-J. E. Briest, of St. Louis, Mo., for an Improvement in Printing Presses:
I claim the use of the etationary cylinder, $P$, when it is arranged
and operated, with refertance to the inking rollers, I I I, and distribu-
ting rollerg, L , in the manner shown and described.
29,817.-Montgomery Queen, of Brooklyn, N. Y., for $n$ Improvement in Journal-boxes:
I claim, first, The combination of the self-adjusting $\mathrm{kev}, \mathrm{D}$, with
the check-plate, C , asand for the purpose set forth and described

29,818.-J. M. Read, of Boston, Mass., for an Improvement in Ovens:
I claim my improved oven, having the several parts eonstructed
and arranaed in relation to ench other, and so as to operate in tho
29,819.-Ezra Reid, of Bazetta, Ohio, for an Improved
Fastening for Paddle Wheels:
I claim the arrangement of the stationary wheel, $A$, rods, $C$, with
their pinions, $B$ and $D$, the buckets, $F$, nad wheels, $E$, in their rela-
tion to each or their pinions, $B$ and $D$, the bucketa, $F$, and wheels, $A$, in their rela-
tion to ench other and to the tangential arms, $\mathbf{H}$, operating in the
manner and for the purpose specified.
29,820.-H. N. Rhodes, of Richmond, Vt., for an Im
provement in Sliding Switches for Railroads:
I claim a solid sliding awitch with raila, or eqnivalents for raila ith grooves, a ffording a safe passage on to the single track to a train
coming upon one side track, when the switch is adjusted for the coming upon one side track, when the switch io adjus
other; the whole constructed and operated as described.
29,821. -H. N. Rhodes, of Richmond, Vt., for an Improved Safety Railroad Switch:
I claim the use of a a witch upon one side of a railrond track, con
structed as described, and which, combined with rails, constricted
and arranged as described, will inaure a train tating the desired and arranged as described, will insure a train taking the deeifred
branch, and, at the same time, howerer it is adjuated, wili furninli branch, and, at the same time, however it is adjuated, will furnibli a
gafe paisage to the slnghe track for the train coming oni either of the
branch tracks.

29, 822.-L. P. Rice, of Adrian, Mich., for an Improvement in Slide Valves for Stenm Encines: I chim the employment of a bor valve, A, that has its bottom ele-
 sented and described, for the purpose set forth.
20, 823.-A. Roden, of Talladega, Ga., for an Improvement in Plows:


29,824. - H. A. Roe, of Madison, Ohio, for an Improvement in Cheese Hoops:

forthis iuvention consists in the use of a cam and yoko appplied to the ends of the hoop, and used in conncetion with guides, wherebs a simple, cheap, durable and infexible joint is obtained; one that admits of the ends of the hoop, as they are opened and closed, moving in the arc of a circle, so as to preserve the circular form of the larged and diminished, as may be required, to suit the size of the churn.]
29,825.-J. A. Roebling, of Trenton, N. J., for an Improvement in Trussed Compound Girders:

29,826.-EE. S. Scripture, of New York City, for an Improvement in Wrenches:
I claim the serrated roller, If hulle ecentrically, within the movoperated in the manner described and for the punpose mei forth. 29, 827.-J. C. Sellers, of Woodville, Mise, for an Improvement in Cotton Presses:

 29,828.-James Shaw, of Manayunk, Pa., for an Improvement in Gig Mills:
Iclaim the employmento for card cylinder or cylinders, arranged
and operated as described, for the purpose set forth. 29, 829.-A. L. Simpson, of Durham, N. H., for an Improvement in Working Ships' Sails:
I claim the combination a ad arrangement of deviees applied to the
 the foot rope, the runner, the ropes, $\mathrm{K}^{\prime \prime} \mathrm{L}$, and the stop-hook aud eye,
as specified.
G. wilion chim the arrangeement of the screm, $F$, and the gurdo arm,
 or on the boom-hanger, as specififed.
29,830-H. E. Smith, of Philadelphia, Pa., for an Improved Washing Machine:


${ }_{29,831}$.—T. B. Smith, of Marietta, Ohio, for an Improvement in Lamps:
claim, first, The peculiarly-
 the mannel set forth.
Second, The shade, S. formed and operating as described.
29,832.-W. H. Tendler and J. F. Moeshlin, of Cambridge, Mass., for an Improved Sofa Bedstead:
We claim the described mode of arranging the mnttress frames
and applying them together and to the sof frame, viz.: by means
 connected therewith substantinlly as specified.
29,833 . Nehemiah Upham, of Norwich, Conn., for an Improved Steam Trap:
 dinally with an adjustable valve stem, $H$, and valves, b, subbitan tinally with an add staberibed.

[This invention is designed to facilitate the escape of the water which accumulates by condensation and remains in steam pipes that are used to warm buildings.]
29,834.-W. S. Wallace, of Amcricus, Ga., for an Improvement in Brick Machines:
the cams and eccentricsupon the central vertical shaft, $H$, with the lever alides and plungers, in reilation to arach other, the hoppers,
screens and frame, and operating in the manner and for the pur poses described.
29,835.-Able Ware, of Athens, Maine, for an Improved Surveyors' Instrument:
I claim the combination of a s ingle e graduated limb, vernicr tele-
ecope or sights, with substantinlly the means described for chanfing scope or sighte, with substantinlly the theans described for chancing
the pogition of the aforesaid parts 90 , all operating to the position of the aforesaid parts
etantialls in the manner described.
29,836. - Ephraim Wells, of Auburn, Miss., for an Improvement in Cultivators.
I claim so connecting and arranging the sole piece of a plow in
 tantially in the
29,837.-James White, of Bangor, Maine, for an ImProved Amalgamator:
 dinally upon the inside of the cylinder, ne shown and deecrtibed ao
that. while the quartz, dirt and water nee allowed to pass through
 Mpon and through the ore and other contents of tlie cylinder, ,nd uartz, dirt and water, all as set forth.
[This invention consists in the employment of floats placed in a tangential or inclined direction into the inside of a rotary cylinder, for the purpose of taking ap some of the quicksilver and dumping it
into the liquid mass of the " tailings," so as to mix them thoroughls into the liquid mass of the "tailings, ", so as to mix them thoroughl and to bring every particle of gold in contact with the quicksilven;
and also in arranging said floate with hooks on both ende to prevent the quicksilver running offidewass,]

29,838.-J. T. Williams, of York Borough, Pa., for an Improvement in Lamps:
I claim the employment, in combination with a lamp that is sup-


29,839.-D. Wolf and H. Wolf, of Lebanon, Pa., for an Improvement in Corn Planters:
We claim the arrangement of the conical canp, $M$, flanclied per-
forated toothed

[This invention relatcs to an improved seed-distributing device, Wherebs the con may be dropped or discharged from the hopper with regularity or in an uniform manner, and the device rencras 28,840.-D. 'T. Woodrow, of Cincinnati, Ohio, for an Improvement in Furnaces:
I claim. in combination with an outer casing, $A$, the fre.box, $B$,


28, 841.-W. E. Wormell, of Gcrmantown, Tenn., for an Improvement in Plows:
I claim the arrangement of the tri-lateral surf nce, $n^{*}$, inclined
shares, $C$, voldboards, $A$, and atandard, $B$, as and for the purpose shares, clam tholdboards,
shown and described.
ad rally known as "shovel plows"-thoso used in the cultivation of rally known as "shovel plows"-thoso used in the cultivation of
southern crops, and designed for cultivators cals-that is to say, for erndicating weeds and loosening the coil around or between growing eradicating weeds and loooen soil and forming a furrow. The object plants without turning the soil and forming a furrow. The
of this invention is to effect a more thorough pulverization or working of the soil than hitherto with an implement of much less draught than all those of previous construction, and also to obtain a self stampling implozient and ont of greater durability.]
29, 842 .- E. H. Angamar, of New Orleans, La., as-
signor to himsclf and Tobias Marcus, of New York
signor to himscif and Tobias Marcus, of New York
City, for an Ymprovecment in Cane-coverers:
I claim the combiration aud arrangement of the twin adjustable
covering plows, $P$, with the adjustable scraper, $S$ substantially as covering plows, $P$ P, with the
and for the purpose specified.
29, 843.-Joseph Hardey (assignor to O. Chamberlain and W. IL. Babcock), of Moline, Ill., for an Improvement in Pumps:
 [This invention relates to that class of plows which are connected o a mounted frame containing a driver's seat, and are generally the reads anky or carriageplows. The invention has for its object whercbs the device masbe adapted to its work so as to plow or form a furrow of greater or less depth as occasion may require, and also adnpted so ns to be readily drawn from place to Dlace.]
29, 844. -Peter Louis, of New York City, assignor to himself and Hiram Wandel, of Castleton, N. Y. for an Improved Valve Gear for Steam Engines: I claim the arrangement of the two connected adjustable tappet
nieces, I I n $n$, in connection with the valve yoke, $C$, and rocker, $F$
$G H$, substantill AH, substantiall as and for the purposc described.
And I nleo claim, in combination with the nbove-described ar
angement of tappet pieces, the spring, $j$, applied in connection with rangement of tappet pieces, the spring, j, applied in connection with
the yoke and the rocker, substantially az and for the purpose speci-
[This invention consists principally in the combination with a oke counected with the valve or valves emplosed forthe induction and cutting-offthe stcam, and with a rocker deriving motion from the minin shaft of the engine and operating within and upon the said
goke to open the valve or valves at the proper time for the induction of steam, of two adjustable tappet picces fitted to the yoke, for the purpose of belng operated upon by an arm of the rocker to efect the closing of the valve or valves, and consequent cutting-off of the stcam at such points in the stroke of the piston as maybe desirable.] 29,845.-J. W. Truax (assignor to himself and O. J

Smith), of Richford, Vt., for an Improved Head
Block for Sawmills :
I claim the toothed segment, $K$, and arm, $I$, provided with the
wheels, $M$ and $G$, bar, $I$, provided with the swingins
 haft, $F$, and the segment
for the purpose set forth.
[This invention consists in a novelarrangement of partsfor gaging the lateral movement of the $\log$, so that the latter may be readily adjusted previous to the commencement of
stuf" of uniform thickncss from the los.]
29,846.-Lewis Whitchead and S. P. Kettle (assignors
to S. P. Kettle), of New York City, for an Improved
Spring Mattress:
We clinin, first, The combination of the brace, 2 , constructed a
described, with the apring, 1 , substantially as and for the purpos
described, with the epring, 1 , substantials as and which the pprings
set forth, The combination with the slate, 5 (upon whic
Second,
are securred), of the beveled intermedinte block, 6 , and the hinges by
which the sald blocks and slats are connected, substantially as and for the purposese setforth.
with the slats to which they are attached, and with the intermediate blocks wlich connect the lower one of these plats to the next one
below it, when the head pieces, ge, ne so beveled as to nuderlie epecified.
29,847.-Sylvenus Walker (assignor to himself and S.
S. Hemenway), of Boston, Mass., for an Improved

Trace-fastener:
I claim covering and protecting the projecting head, D, of the
whiffetree on the outside of the tag, by shield pie ce, C , in the man-
29,848.-C. Williams (assignor to himself and J. F
Deffenbacker), of Weston, Mo., for an Improvement
in Beehives:
I claim constructing the feed npparatus o o that a n uniform quantity
of food will always flow into the troukh, said trough having : pprof food will niwass flow into the trough, said trongh having a pir
forated cover for the bees to feed through, in the manner and for the
purposes set forth.

49,849.-G. W. N. Yost, of Yellesw Springs, Ohio, as signor to himself and J. F. W atson, of Edwards
Depot, Miss., for an Improvement in Cultivators:


RU-1SSUE.
Clark's Patent Steam and Firc Rcgulator Co., of Ncw York City, assignees of Nimothy Clark, of Bedford, N. Y., for an Improvement in Safety Apparatuses for Sream Boilers. Prtented August 21, 1847 :
I ciam the emplosment of a flexible vessel substantially as de-
scribed, when the ins ide of snch vespel is combined and connccted sith stcam boilcr to be expanded by the steam generated therein,
and the outside with the mechanimm which operates the damper, or
it to its cquivaleat, for regulating the draught or blast of the furnace,
gibstantially as and for the purpose specified.

## Extensions.

T. W. Harvey, deceased, late of New York City (W. A. Harvey, administrator), for an Improvement in Machincry for Cutting Wood Screws. Patented August 18, 1846 ; re-issued Jan. 4, 1859
I clam, first, The emplogment of a pair of spring pincers which
reccirc the blanks one at a time and presents them to the jaws point
oremost, substantially as deacribed. Sccond, In combination with the mandrel and jaws, or equivalent Sccond, In combination with the mandrel and jawe, or equivalent
means for receiving and holding the grew blanke, the emplogment
of a punch and driver foringerting the Dlank to the required disof a panch and driver for inserting the blank to the required dis-
tance, substantially as deacribed.
Third, Third, The combination of the pincers for transferring and pre-
senting the blank to the fas, or equivalent therefor, with the
nunch or driver, substantially as described, for driving the blanks nunch or driver, substantially as described, for driving the blanks
out of thie pincers and into the jaws, as aet forth.
Fourth, he combination of the movable reat with the movable cutter head, subet ntially as described, and for the purpose of giving
suppret to the blank while under the operation of the cutter, and to support to the blank while under the operation of the cutter, and to
relieve the blank and get out of the way so soon as the cutting opera
ion is completed and this is chime tion is completed; and this is claimed whether the cutting operavion
be performed on the head or any other part of the blank.
 siding on the piece, between the check pieces, B', with the rc-
spective adjutments thereof, combined, arrnnged and operati ng so
as of efif ect the setting of the eool, substantially as set forth, N.B. - The manner of operating the griping dies and of eeparating
the blang in the hopper and convcing then to the feeding fingerg,
being similar to those described and uscd in the machine for cutting being similar to thote described
the threads, are not claimed.
T. J. Sloan, formerly of New York City, now of Paris, France, for an Improvement in Wood Screws.
Patented August 20, 1846 ; re-issued Feb. 22,
1848; again re-issucd Nov. 23, 1858:
I claim, first, Making the core with $n$ couical point, substantialls nearly so, pubstantially ns and forthe purpose specified. Second, Making the core with a conical point, substantially as de-
scribed, in combination with the thread formed on such conicn point of a gradually less depth as it approaches the apex of the core,
and with the geveral convoltinonson fice conical point nnd on the body
at equal distances apart, substantialls as and for fied. Thin , , Third. Making wood screws with the eore of a conical shape along
that part of the length of thic screw extending from where the thread begins on the ehank to where it becomes of full depth, substantially
nsand for the purpose epecified. Found for the purpose epecificd.
Fourth, Making wood screws with the core of a ciylindrical, or
nearly cylindrical form, nnd with a conical point, in combination nearly cy lindrical form, nnd with a conical voint, in combination
with the thread of equal pitch nlorig the conical point sind bods, that ia, with all the convolutionsait cqual distancess apart and of gradually
leas depth from the base to the apex of the core, substantially as de leas dept.
ecribed.
Wm. Howe, deceased, late of Springfield, Mass. (Joseph Stone, administrator), for an Improvement in Truss Bridges. Patented August 2R, 1546 :
leam widh first, The manner in which I have combined the arch by menns of the regulating screws that are made to bear on the arch
benm or upon the bearing blocks or wedge pieces, $c$ c, so as to effect the same purpose.
Second, I also claim the manner of sustaining the bearing of the
braces on the string pieces by passing the metallic bockets, $\mathbf{E}$ E
 nnd the nute, F, opernte on the upper and lower e nds of
and are not effected by the shrinkage of the wood-work.

## Fid等  mit  

Correspondents sending communications for publication in our columus are requested to a void writing on both sides of a shect of paper. This fault, though common to persons unaccus tomed to writing for the press, gives great tronble to the printe (eepecially in long articles), and, when combined with illegibility of hasdwriting, ofen causes interesting contributions to beregret fully consigned to our waste-paper basket.
I. \& K., of Ill.-The I'atent Office has decided that where two partics apply for a patent jointly, and a caveathas bee previously filed in the name of onlyone of the parties, the $\$ 20$ paid into the Office at the time the caveat was filed cannot be applicd towards the government fee, although the invention mas be preciscly the same as the one described in the cav at.
F. G. W., of La.-If you wish to gain a great deal of information in regard to the patent laws and practice of the Office in cramining inventions and cranting patents, and also concerning transfers and other information regarding the management an sale of patents, inclose two three-cent stamps, and order from this office a supplement of the Scientifio Amimioas.
J. McG., of Ga.-Two of the specimens of minerals which sou have sent us resemble lumps of iron slag; the third is principally composed of lime. It would cost considerable to mak a quantitative analysis of them; but, if you desire this, we can recommend jou to a competent chemist.
S. C., of N. Y.-There is no patentable novelty in your alleged improvement in mowing machines. The device you claim is already secured under McCormick's patent. We think sou can secure a patent for your seed-sowing machine. The arrangement H. G., of Miss.-If you will send on your Letters Patent. Judge Mason will examine into the validity of your claims, and engrest
you desire.
G. H., of Va.-If your model is ready, please to send it on to us by express; and do not fail to inclose a careful description of the m and write to you our views respecting your chance for a patect.

