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37,728.-Manúacture of Carpet Lining.-S. M. Allen, Boston, Mass.
I claim the improvement in the manufacture of fabrics for under-
laying carpets, \&c., the same consis sing in permanently combining

stantially in the mode hereinabove described.
37,729.-Fence.-B. F. Allison, West Dayton, Iowa
I claim, first. The arrangement of the double-8houldered rec
 the end battens, $a^{*}$, and with, secondary battens, $a^{\prime} * *$ and keys, h, all
constructed and operating substantially in the manner and for the constructed and operating sub
purpose hown and described.
Second, The employment or purpose hown and described.
Second, The employmant or use of a clamp, E, with central recess,
e, incombination with mortises, , in the end ba tenten, and with sec-
oud ary batlens and keys, $i$, all as and for the pur pose spec if ed. [The object of thisinvention is to produce a light and durable fence which can be easily put up or taken down, and it relates to an improvement in that class of fences the panels of which are arranged in a zig-zag line, and which are commonly termed worm fences.] 37,730.-Churn.-Charles L. Bottum, Dansville, N. Y.: I claim, first, The use of the angular dasher B, as seen in Fig. 1 ,
and its various modifications, as shown in Figs. 2 and 3 , with or wihh:
out the adjustable rod, $f$, substantially as set forth and for the purpose described.
second, 1 claim the use orf the angular dasher, B, with its modif. Second, I claim the userf the angular dasher, B, with its modifi-
cationsin combiuation with the rod, f , the adjustabiestandard or ful-
crum, D, the lever, $\mathbf{C}$, and the churn, $\mathbf{A ,}$, substantially as described. 37,731.-Feed-water Heater for Steam Boilers.-Richard C. Bristol, Chicago, Ill. : I claim, first, The combination of plates perforated to a greater or
legs axtent over their surfaci, with shell or case of feed-water heaters
of stesm generators or boilers, for the purpose set forth. or steam generators or boilers, for the purpose set forth.
Second, The combination of the bent tube or its equivalent, with
a feed-water heater of steam generators or boilers, for the purpose set forth.
Third, The cornbination of the well.bent tube and feed-water heat-
or of a steam generator or steam boiler, substantially as and for the purpose set forth.

## 37,732.-Elevating Mill-stones.-A. M. Bruckart, Brunners-

 ville, Pa.:I clime, the scrow, H, provided at its lower end with two oppositely
projecting hooks, $\mathbf{c} \mathbf{c}$, bevel wheel, $\mathbf{V}$, pinion, $G$, and winch, J , in com.
 hooks, d d, when the whol
for the purpose specifed.
[The object of this invention is to obtain a simple device to facilitate the operation and to lessen the time and labor necessary to the hansharpening their cutting surfaces. The invention consists in a certain combination of parts whereby the above-mentioned results are effected in a most satisfactory monner.]
37,733.-Water Wheel.-N. F. Burnham, York, Pa. I claim the ring, D, provided with the flange, , and ar ananged in re-
lation with the opening, h, the scroll and rim, $f$, of the wheel, to op-
erate as and for the purpose herein set forth. [This invention relates to an improvement in that class of water wheels which are placed on a vertical shaft; are enclosed within a scroll and discharge the water at the center, and which are commonly termed center-discharge wheels. The object of the invention is to so as to avoid or prevent all re-action, and also to prevent the wearing of the bottom of the scroll and consequent leakage by the action of the wheel.]
37,734.-Calash or Folding Top for Carriages, \&c.-Ira
 [This invention consists in constructing the top of a carriage in such a manner that it may, when not required for use, be folded down compactly, an beas of the occurat of the seat, and also be capable least with the view of the occupant of the seat, and also be capable
of being unfolded or raised to a greater or less degree, as occasion may require.]
37,735. -Cellular or Tubular Boiler for Evaporating Pans.--D. M. Cook, Mansfield, Ohio:
I clamm, frist, A cellular or tubular biiler, substantially as described, adapted for application to a shallow evaporating pan, substantially as
described and fort the purpose set forth.
Second, The combination of a boiler with deep cells or tubes, a fur-
nace and a shallow evaporating pan, substantially in the manner denace end a shallow evaporating pan, substan
scribed., Constructing the cellular or tubular boiler with cooling or
Third,
extending sides; and also applying it to the throat of a furnace, sub. extending sides; and also applyingit to the throat of a furnace, sub.
stantially in the manner and for the purpose set forth. 37,736.-Evaporating Pan with Cellular Boiler.-D. M. I claim, frst, A cellular boiler and a shallow evaporating pan united
substantisly in the manner and for the purpose described. substantially in the manner and for the purpose described.
Second, The arangement of the directors, d d d d ${ }^{\prime}$, in combination
with the cellular boller and shallow evaporating pan, substantially as and for the purpose described.
37,737.-Evaporating Pan with Tubular Boiler.-D. M. Cook, Mansfield, Ohio :
Iclaim, f rst, A shallow eva porating pan constructed with a deep Iclaim, first, A shallow eva porating pan constru cted with a deep
bonder, When the boiler is divided into cells by means of tubes which
formen fame fues, substantially as herin decribed. Second, The arrangement of the directors, de , with respect to the
combined boiler and shallow evaporating pan, substantially as and
for the purpose described. 37,738.--Support for Artificial Legs.-Phylander Daniels, 733.--Support fo
Le Roy, N. Y.:

I claim the shoulder saddle, C, provided with friction rollers, c c,
or which passes the strap,,
Oimb, secured at its ends to the artificial
Hme parpose of suitably supporting the same and allowing

## the free and eagy motions of the body ating substantially as herein set forth

 37,739.-Clothes-dryer.-Daniel M. Devoe, New YorkCity: City
I claim
I claim the arrangement of the semi-circular slotted case, $A$, pro-
vided with eprings e, on top, and with a continuous stop,
equtvalent, or ita equivalent, on the botton, in combination with a serias of radial fold-
ing bars, b, all constructed and operaring in the manner and for the
purpose shown and wn and described.
[This invention consistsin the arrangement of a semicircular-slotted case provided with springs or spring-catches on top, and with a con
tinuous semicircular stop, or with a series of stops at the bottom, in combination with a series of radial folding bars in such a manner that, when said bars are turned up, they are perfectly protected agains dust or other impurities, and they are retained by the spring catches and prevented from turning down spontaneously, and that one or more of said bars can be
it may be dosired.]
37,740.-Illow.-J amea M. Dick, Buffalo, N. Y.

 37,741.-Beehive.-James Donnel, Davenport, Iowa : I claim the drawer, C, made in the manner dencribed and arranged
in relation to the bive and comb frame, as set forth, so sto ventilate
the con the comb, and, at the samee tim
catch the refuse from the hive.
37,742.-Pack Saddle.-Jac ob Dunton, Philadelphia, Pa. : I claim, frrst, A pack saddle consisting of two disconnected, bars or
pads, $\mathbf{C} \mathbf{C}$, attached respectively to two cases or panniers, A A', conpads, C attached respectivelv to two cases or panniers, A A A', con-
nected together by any suitable means, substantially as herein de-
scribed and for the purposes set forth. necting links, $B B^{\prime}$, and upper case, $A^{\prime}$, when the whole are con-
structed structed andarranged in the manner herein shown and deacribed, so
that the connecting links of the lower cases shall serve that the connecting links of the lower cases shall serve to prevent
longitudinal displacement of the noper one, as explained.
Third, The pockets, DD ${ }^{\prime}$, in the described combination with the
 IThe leading feature of $M_{\text {ovelty }}$ in this invention is the application
of a pad or saddle bar to a pannier or cases of any suitable form adaptof a pad or saddle bar to a pannier or cases of any suitable form adapt-
ed to be slung in pairs across an animal's back.]
37,743.-Cotton Gin.-Francois Durand, Paris, France. Patented in France July 18, 1862: I clainn, first, In combination with the feeding rolls and brush, the
carrying and crushing rolls, il', for takng the coton from the feed
rolls to the brush, and att ${ }^{\text {ane }}$ same time crushing the seed therein, substantially as described
Second, Iclaim in combination with the traversing and rotating
arrying rolls, $i \mathrm{i}$, ine intermittently-feeding rollis. ff , so that while carrying rolls, it', the intermittently-feeding rolls. ff, so that while
the rolls, il', are not receving cotot the feedrolls shall be in a state
 rolls, i, the drum, $k$, and revolving beaters or blades,
operating to mate a and
purpor substantially as described and for the forth,
$37,744 .-S t o c k ~ P u m p .-W a r r e n ~ A . ~ D u r r i n, ~ M i l l e d g e v i l l e, ~$ Ill.: the combination of the inclined endless apron, A A, and
 manner delineated and specified
37,745.-Apparatus for Cooking with Gas.-Warren L.
Fish, Newark, N. J.: I claim, frst, The berein-described gas-heating and cooking appa-
ratus, the same consisting essent1anly in the combination of a cylnnder, or its equivalent, closed at the bottom by a pertorated plate, and surrounding one or more jets of gas, as shown, with a chtmeney ar
ranged to operate substantially in the manner and for the purposes
set set iorth. In combination with the cy linder surrounding the flame or
Seccond,
fiames, perforated boitom and chim ney, I claim the makiog of the fa mes, , erforated bottom and chim ney, I claim the makiog of the
said cyllder of a transparont materia, or providing $1 t$ with one or
more windows, substantially in the manner and and for the pu rposes set forth.
Third, also claim, in combination with the cylinder surrounding
one or more flames, and closed at the bottom by a pertorated plate, as one or more flames, and closed at the bottom by a pertorated plate, as
described, of a heating vessel with a central fue,
stitute shaped as the to con described,
situtut the
set forth.
37,746.-Composition for Lubricating Wagon Axles, \&c.James P. Gay, Cincinnati, Ohio
I claim the imp roved wagon tar herein described, consisting of the
ingredients speci fied combined substantially in the manner and in 37,747.-Bung Socket and Plug for Barrels.-Stephen J Geoghegan and William Ulmer, New York City We claim the socket, A, and plug D d' adapted to apply to the stave
C, nando sink even with the exterior surface thereof, substantially as
nd with the effect herein set forth. 37,748.-Suspended.
37,749.-Mode of operating Weather Strips.-James B.
Gray, Hudson, Wis.: Gray, Hudson, Wis.
claim the combination of the eccentric, , (whether used on one
or the other, or both jambs of thedeor way, with the strips, cand ${ }^{\text {a }}$ by means of the rod or wire, $k$, substan tially a s and for the purposes
hereinbefore set forth. sec ond, I also claim the washer, $m$, in combination with the eccen-
stic.
forth. made, constructed and used as and for the pur poses herein set
$\qquad$
37,750.-Gang Plow.-Jacob Haege, Shiloh, Tll. :
I claim, frst, The attachi ng of the plow beam to the axle, A, by
meansof the stirrup or loop, $Q$, pin, $S$, and chains, $d^{\prime} d^{\prime}$, and bar, T

 lowed to become detached rom the axie or carriage when the former
comes in conaiact with any obstruction which may lie in their path.
Second, The rotary cutters, I, when ppaced ona screw-rod or shaft,
H, and secured thereon by jam nuts, i, and said shaft hung in the H, and secured the reon by jam nuts. i, and said shaft hung in the
arms, $G$ G substantially as and for the purpose piecifed.
Third, The combination of the bar,

[This invention relates to an improved gang plow designed more es pecially for western or prairie use. The invention consists in an improvement in attaching the plow beams to the moving gear or carriage whereby the plow, when necessary, may be readily elevated by the ble of being detached from the carriage in case of the plow coming in contact with an obstruction of anykind, thereby preventingthe breaking of any of the parts, or the causing of them to be subjected to any undue strain.]
37,751.-Sugar Evaporator.-Robert' Hamilton, Franklin,
Ind.:
I claim, first, The arrangement of first and final boiling pans, B $C$
C and $F$, chimneys $G$ and $H$, and damper, $I$, substantially as and for the purposes set forth.
Second, The described arrangement of hinged and removable final 37,752.--Portable Book-case.-Ezra Haskell, Canton, I claim the series of removable shelves. $C$ D, \&c., composed of
pieces, b c d , which, when two shelves are placed togetherform a bo as represented in $F$, when , in two shelves are placed together forma
substantially as de scribed. 37,753.-Seeding Machine.-George D. Haworth, Decatur,
111.:
as shown, to admit of the scrapers being passed laterally over the
surfaces of the wheels,, , when necessary, and not be in in contact
with the later when not desired for use, asherein set forth [This invention consists in the employment of a rotary coulter TThis invention consists in the employment of a rovary coulter that weeds and other obstructions which may be in the path of the that weeds and other obstructions which may be in the path of the
furrow shares may be readily passed over and farrow shares may be readily passed over and not allowed to collect
around the shares, and prevent the discharge of seed therefrom. The invention further consists in the employment or use of scravers plied to the machine and arranged in such a manner that the wheels on which themachine is mounted may be readily cleaned and the scrapers applied to the wheels only when necessary.]
37,754.- Corn Planter.-C. W. S. Heaton, Belleville, Ill. : I claim, first, The employment of two alternating slide valves, in
connection with separate channels, substantially as and for the pur
pose set forth. Second, The arrangement of the holes in the valves and the arrange-
ment of the tubes, on a rhomb instead of a square, for the purpose
set forth. Third, The combination of the tooth or share, two valves and a
series of tubes or channels, substantially as and for the purpose set Fourth, The employment of weight boxes in connection with a oov-
erer, the whole constructed substantially as and for the purpose described. The arrangement of the devices above claimed in connection
Fittht the frame, AA, goose-neck lever, slotted rockshaft, all construct
with the with the frame, AA, goose oneck lever, soloteder rockshation inl connstruct
ed and operating substantially as and for the purpose described. 37,755.-Board Measure.-Austin D. Hoffman, Bellville I claim the dial wheel, B, having several circles differently gradu-
ted, in combination with the indices, E ; and severalscales or eol umns of fogures, all arranged to measure different lengths of lumber 37,756.-Percussion Fuse for Shells.-B. B. Hotchkiss ,756.-Percussion
Sharon, Conn. :
I claim a percussion hammer or striker constructed substanthally as
erein described, having a hard exterior and a soft interior and base,
ce the purpose 37,757.-Driving Power for Spinners.-M. G. Hubbard and A. J. Smith, Syracuse, N. Y.
a. We claim the construction and arrangement of the parts in such
manner as to inc rease the pressure on the shaft. $C$, by its own re sistance and the driving power operating together, for the purposes 37,758.-Gold-miners' Washing Pan.-Thomas Kendall, Sen., San Francisco, Cal.
 cribed therein
37,751.-Apparatus for determining the Form and Size of the Head and adapting the Hat thereto.-J. F Klein, Trenton, N. J.
I claim a composition constructed substantially as described, to
whit, so that it can be used to take the formo and size or the thead, and
then to bhape it (lhe hat) to fil the head. 37,760.-Fancy Looms.-L. J. Knowles, Warren, Mass. : I claim operating the heddles by means of cranks capable of be-
ing iarned ndependently of each other to the opposite extremes of
their throws, asindicated by the pattern chain, or its equivalent, subtheir throws, asindicated by the pattern chain, or its equivalent, sub
stantiall yas described.
I also claim operating movable shuttle-boxes by means I also claim operating movable shuttle-boxes by means of eranks
so arranged as oo be turned indepenendently of each other from one
exireme of their thr extreme of their throws to the other, under the dire ation of a pat
tern chain or its equivalent I also claim the rotatinglifter and depresser cylinders, operating
as set forth, for the purpose described. as set forth, for the purpose described.
I also clam the crank wheels, ce constrncted and operating sub
stantlally as described for the purpose specified. I also claim the gear, $k$, and segmental gear whee, b , in combina-
tion with a rotary iitter and depresser cylinder, tor the purpose set
forth. forth
I also claim the eam, s, upon the shaft of the whe,$k$, in combi
nation with the led ge, $r$, upon the segmental gear, $h$, for the pur I alsoclaim loosening up the harness cords by means of the vivent
ing guide rolls, or their equivalents, for the murpose described. ing guide rolls, or their equivalents, for the marpose described.
I also opo claim connecting the drop box with the mechanism by which
scribed. 37,761.-Pie Stamp.-Herbert Marshall, Dracut, Mass. : I chaim the combination and arrangemen to the revolving handle, manner herei
37,762.-Clothes Frame.-J. P. Mayhugh, Leitersburgh; Md. :
I claim, The use of downwardly-folding arms in combination the arms to fold within a smaller space.
 ranged and operating in the manner and for the purposes specified
[The peculiar features of this invention are, that it affords, when in use, a large area for hanging clothes, without being elevated to an inconvenient hight at any part, and, when not in use, folds into a very compact form. 1
37,763.-Puzzle.-J. U. Mueller, Detroit, Mich.
I claim the employment or use, in a puzzle, of two different sets
of triangles, A B, which are of such a shape that two sides of each triangle ot one set are equal to two sides of each triangle of the
ther set, andi the three angles of each triangle are differen from each other, and the angles of each triangle are different
from of the triangles of one set are
diferent from those of the other set, substantially as and for the
purposeherein shown and described. [This invention relates to that class of toys 'in which, by means of several pieces of wood of diff erent colors and different shapes, a variety of figures or designs can beformed.]
37,764.-Breech-loading Fire-arm.-Charles Perley, New York City :
I claim the swinging breech or chamber, $d$, in combination with for the purgoses speecined.
And in combination with the foregang, I claim the adjusting screw, 1, hemisphericalor conical projection, $m$, and the inclined 37,765.-End-thrust Bearing.-Charles Perley, New York City:
I clait the collar, d a and balls, ii, arranged and applied as set
rth, to take the end thrust of the propellershaft, as specified. 37,766.-Traveling Battery.-Charles Perley, New York City :
I claim tre traveling battery specified, provided with the V-shaped
end e and inclines, $e^{\text {, as }}$, eet forth. end, e, and inclines, $e^{\prime}$, as eet forth.
I also claim the arrangement of the movable platform sections,
 37,767.-Hose Coupling.-Charles Perley, New York City :
Ihe claim a hose coupling having the hinged clasp, c , and freceiving the fited with
thanges, 1,2 , in the manner and for the screw, f, and receiving the flanges, 1,2 , in the manner and for
the purposes setforth. 37,768.-Steering Apparatus.-Charles Perley, New Yor
City
I claim the arrangerpent of the horizontal shaft, ${ }^{\text {g, pinton, } k, \text { and }}$ I claim the arrangerperti: of the horizontal shaft, g, pinfon, $k$, and
wheel, within and sustained by the casing, c , as and for the purposes set forth.
I also claim the horizontal wheel, $f$, in combination with the rud.
der stock, when fitted substantially as specified, so that the ruldder it
free toworre end wise without disturbing or altering the position of thee to work end wise wit
37,769.-Ram for the destruction of the Enemy's,Ships.
Charles Perley, New York City:
I claim, first, The stoppocock Yor cocoks, d d and e, applied at the end of
the vessel below the water ine in combination with the movable
rem

and combined with thecirenlar corating radge and the cannon applied to

 h, oontainedin the vessel, but not attached thereto, for the pur poses
and as specified.
37,770.-Closing Doors.-Charles Perley, New. York claim the saddle plece, $i$, receiving the weight cord, in combination with the rellers, $\mathrm{e} \mathrm{e}^{\prime}$, and acting to close the door, in the manne
and as specified 37,771.-Discharging Explosive Shells from Balloons.Charley Perley, New York Oty
ta claim the employment of a divided basket or reeptacce, $\begin{aligned} & \text { uus. } \\ & \text { tained by a gas bag, and carrying the bomb or other article to be }\end{aligned}$
 seet forth. 1 claim a bomb shell, or its equivalent, attached $t o$ and conVeed by agas ba, in combination with a automatio
necting the said bomb at a given time, as set forth.
37,772.-Ventilator.-T. T. Prosser, of Fond du Lac, Wis. a pane of glass or othertrans sparent substance and applying thereon a morable diss of a
stantially as set forth.
37,773.-Combination of Globe and Chimney for Lamps. Ilaim. B. Requa, Jersey City, N. J. :




37,774.-Button.-P. E. Richardiere, Paris, France
 rein the face of the button.
[Thisinventionconsists in a button having formed in its interio ne or more bars orpartitions over which the thread, by which it is on the front of the button. This button passes without being exposed horn, india-rubber or any materiat Which is plastic under some con ditions and capable of being molded or shaped, or it might be mad of metal in one piece or of two soldered or otherwise secured to gether.]
37,775.-Cultivator.-E. H. Sawyers, West Grove, Iowa :
 [This invention relates to an improved machine for cultivating those crops which are grown in hills or drills, such as corn, potatoes and the like, and it consists in a novel arrangement of devices whereb him to guide the machine so as to follow the sinuosities of the rowsing to cultivate with equal facility and efficiency on both sides of straight or crooked rows.]
37 776 .-Seeding Machine.-U. H. Shockley, Litchfield, Ill. claim the combination, in the manner herein shown and de-
scribed, of the shaft,, , toggle, $H$, the seed suldes, $G G$, aud lever, $A$ rame, $A$, all as herein set forth
(This invention consists in operating the seed-distributing appa tus by a rotary movement only, whereby an exceedingly simple and eflicient device is obtained for sowing seed either in drills, hills, or heck-rows.]
37,777.-Shirt Stud and Sleeve Button.-Henry Simon, I claim the improved stud or button described, composed of a she of sheet metal with a backing of enamel, the whole article being sub
stantially such as specified. 37,778.-Cooking Stove.-D. L. Stiles,'Rochester, N. Y. : diverging toward the outer corners at he topod the oven, sothat the the heated ari, in equal columns, is concentrated at those corners as it
rises, in combination with the interior flue plates, $f f$, and movable
division plates, b $b$ in elevated oven stoves, for the purpose of equal.
 Iclaim the arrangement of the loose perforated thimbleles., , in in com.
ination with the stationary heated air tube, $i$, substantially as and
for the purposes shown and described tor the purposes shown and described.
37,779.-Mosquito Frame.-L. S. Thompsen, Brooklyn,
N. Y.: N. Y.
be increased or decreased in length to fit the window, and receivin the netting or gauze, and in combination therewith I claim the join
at the angles for the purposes specitied. 37,780.-Revolving Shelf.-Silas Vernoy and Nicholas Overfield, Meshoppan, Pa : I claim the posst, A, notopeded or receessed, as shown, and having the B $B^{\prime}$ allarranged as shown, to form a a new and improved article of
manufacture, , or the purpose specified.
37,781.-Draught Regulator.-Henry C. Turner, Boston Mim the combination of the register, $\mathbf{D}$, the damper, $\mathbf{E}$, and the division plate or partition, $G$, operatinges set forth, for the purpos
7,782.-Sight for Fire-arms.-James Warner, Spring field, Mass.

37,783.-Hook for Fastening Garments.-G. A. Watkins I claim a fastenmg for india-rubber and other blankets and gar
ments designed for military and army use, composed of a hook and in eyelet attached permanently to the shank, a, substantially as her
shown and described. [This invention consists in attaching a hook to the blanket or gar ent by means of an eyelet, whereby a simple and efflicient fastenin s obtained.]
37,784.-Sleeve Button.-Wm. H. Wilson, Providence,
R. I.: I claim the combination of the two posts, a b, the bar, B, moving in
aplane parallel with the head of the button, the elastic arm, $\mathrm{C}^{\prime}$ and a plane parallel with the head of the button, the elastic arm, $\mathrm{C}^{\prime}$ and
thed.
fejojection, $f$, the whole operating substantially as herein speci$[$ Th
[This invention consists in a certain novel arrangement of a bar in
comblination with two projections on the back of the head of the but ton, and certain means of fastening the said bar, whereby it is made ing the edges overlap each other, and provision is made for inserting glass in the back of the button if desired.]

37,785.-Money Safe for Travelers.-J. A. Engelhard (as-
Signor to himself and George Hartman), St. Louis I claim the safe, A, with its pockets, BD E, and straps, gk or m n , 37,786.-Hydrant Valve.-J. W. Guernsey, Tiopa, Pa. assignor to himself andH. A. Guernsey, ough, Pa.:
I claim in comployment of the double-way cap, $E$, constructed a nd chamber, $A$, all in the manner herem shown and described. 7,787.-Coupling Head for Railroad Cars.-Robert M
Hughes, Oxford, Pa., assignor to J. A. Blake and H Wood, Philadelphia, Pa.
I claim, first, The combination of the coupling head, A, and link, $D$
wheu the latter is permanently connected to the formerby the hook ed projection, $i$, and pin, $m$. or their equivalents, and when the head 1 so formed in respect to the link as to allow the same to be raised oo
owere, the whole being constructed substantially as and for the Second, In combination with the said coupling head, A, and link, D,
I claim the catch lever, Bung to the head and arranged a nd oper-
ating substantially as and for the purpose specified.
37,788.-Ice Calk.-Daniel Krauser (assignor to himself,
P. Stichter and I Thompson), Pottsville, Pa. I claim the heel frame, A, in combination with the fiat thate, $C$,
when the latter is so attached to the former and arranged in such re
lation therewith as to a dmit of being placed directly beneath the hee when the spurs or points, f, are required for use, and admit of being when the spurs or poins, f, are req
turned over into the hollow of the s.
stantially as shown and described.
[This invention consists in having a series of spurs attached to plate, which is connected by a joint toa frame or clamp so constructed that it may bereadily attached to the heel of a boot or shoe, said ame or clamp having a spring attached to it and all soarrangedtha he plate which is provited with the spurs will be capable of bein late, when the spurs are not required to serve the above office, b apable of being qurned overin the hollow of the sole, so thatthe ppurs will be entirely out of the way. For information respectin Pottsville, Pa .]:
37,789.-Cultivator.-P. B. \& L. C. Reynolds (assigno
to th
Ill.:
I claim, first, The arrangement upon adjustable beams, BC , of purpose of adjusting twoor more pairs of
the manner and for the purpose described.
Second, The arrangement of the bent sustaining bars, FF, side
beams, $\mathbf{C}$, and slots, bess, in the manner and for the purpose de cribed. The arrangenent of the frame, A BCD E, swingle tree, I
Third, The
rraft rods, J J, adjustable hangers, $K K$, perforated lever adjusting raft rods, J J, adjustable hangers, $K$ K, perforated lever adjustin sustaining bars, FF, and slots, $b$ o $\&$ the whole constructed and
operating together in the manner and for the purposes described. 37,790.-Machine for Planishing Paper.-John F. Schuy

Pa.: assignor to Wm I claim the use of the smooth planishing roller, $\mathbf{E}$, in combination
with the pressure roller, $D$, when a number of sman longitudinal ridges are formed on the latter roller as set forth for the purpos I claim the auxiliary pressure roller, $K$, of the form described in
combination with the upper and lower rollers, $D$ and $E$, for the pur-
pose specified.
37,791.-Device for Feeding Paper to Cutting Machines.
John F. Schuyler (assignor to Wm. E. Lockwood)
Philadelphia, Ya.
I claim the clamp composed of plates, $D$ and $E$, the cam lever, $G$
or its equavalent and the pawl, $F$, the whole being constructed sub or its equivalent and the pawl, $F$, the whole being constructed sub
stantially a s set forth, and operating in conjunction with a rack, $B$
as speoifed. 37,792.-Apparatus for Bending"and Folding Paper Col ler (assignor to Wm. E. Lockwood), Philadelphia
Pa.: assignor to Wm. E. Lockood, Philadelphia I claim, frst, A trough, $Y$, to which steam is admitted In combin-
ation with the endless traversing tapes, $x$, the whole being a
ranged and operating substantially as set forth for the purpose spec Second, The roof, $w$, with its lining, $y$, of oiled silk, or its equiva x , subst antially as and for the pu rpose set forth, apes, substantially as set forth forthe purpose specified.
Foust
 Fifth, I claim the reciprocating blade, J, adjustable led ge, 7 , fold
ing rolls, $F$ and $G$, and table, 4, the whole being arranged and operat
ng as and for the purpose herein set forth.
$7,7: 13$.- (rinding Mill.-Amos H. Searfoss (assignor, to
Anna Marie IT
claim constructing a vertical mill with ite I claim constructiog a vertical mill with its bed stone secured, and
held to the frame work in the manner described; combined with a
ceeding screw, and feeding apparatus arranged, constructed, and reeding screw, and
37,794.-Steam Gage.-Thomas Shaw (assignor to him self and Philip F. Justice), Philadelphia, Pa.


37,795.-Steam Boiler.-Samuel Steinmetz"(assignor to Andrew Riersen), Chicago, Ill. :
I claim, first, A steam boiler, constructed with a known portion
D, of it e exterior surf ace or shell, more vielding than or the purpose of carrying off any excessive pres sure which can
possibly occur, the said yielding portion being held and controlled
substa ntially when raised from tts seat and thus prevent disastrous consequence Third, The combination of the vield ing head, D, levers, I1 I2 I3 I4,
spring hooks. J1 J2 J3 J4, and returning spring, H , all constru cted, rranged, and operating substantially as herein shown and described. [This invention does not take: the place of the common safety
valve, but effectually prevents explosion in the event of an increase of pressure too great or sudden for the saffety valve to relieve.]
37,796.-Grinding Mill.-Awsbent H. Wagner (assigno to himself and Chas. Kaestner), Chicago, Ill. C cain the peculiar construction of the vibrating frame, M, having
four bearing by which means the stationary stone,
self verticany and horizontaily ho to the runing stone. I claim the pirots, J J, grooves, KK, for holding the stone, I, Then
combined with my dev ices for holding and shaking the shoe, R, and the floats or a gitators, $V \nabla$, arranged and operating as deseribed 37,797.-Snow-scraper.-Joel Hood, Milwaukie, Wis.


Second, I claim the stirrup, $\mathbf{L}$, in combination with the
means recited in the above first claim, as herein described.
1,415.-Yellow Metal Nail or Spike.-Samuel L. Crocker
Taunton, Mass. Patented April 17, 1849. Re-issued Taunton, Mass. Patented April 17, 1849. Re-issue
Aug. 1, 1854 : I claim the new article of manufacture herein a bove described, of heating the metal to redness, and in such state cutting and head.
ing itin annil machine and subsequently treating substantialily as
described meaning by the term yellow metal a metal composed of copper and zinc, in the wroportions in which they are ubually com.
bined im the manufacture of the well-known "Muntz sheathing
metal." 1,416.-Burning Fluid.-Levi L. Hill, New York City Patented June 16, 1858 :
I claim, first, The use of caoutchousine for imparting greater voda-
tility, a we well as greater stability to my compounds. $I$ wish to be dis Second, $I$ claim as $m y$ invention the liquids herein described Nubiand, oils, A BCDD, having the composition and properties sel aind
orth, to be used singly or in such relative proportions and admixtur s may a ppear necessary to accomplish the purposes set forth.
Third, I claim passing a current of atmospheric air over o
trough the described mistures or their equivalents of hydro-ca hrough the described mixtures or their equivalents of hydro-car
ons, fluid and more or less volatile or rendered so, by the mixtur bons, huid and more or less volatile or rendered so, by the mixture
or by the application op heat and using the mixture of air nad the
vapors of the hydrocarbon for producmg light or heat or both. 1,417.-Carbureting Air.-Levi L. Hill, New York City Patented Dec. 20, 1859 :
I claim, first, Charging air with hydro-carbon vapor by means, of
an apparatus composed of a vaporizing vessel, bellows or blower, aid endent air pipe substantially as pipe, m combination with an ind Second, Combining a current of atmospheric air direct from a bel
ows or blower aud capable of being regulated as to pressure and quantity, with another current of airg that bas been passed overe ond
througha more or less volatile hydrocarbon flidid and utilizing by
combustion the mixture of air and hydro-carbon vapors thus formed or gee eratine mixture of air and
1,418.-Pans for Evaporating and Purifying Saccharin unc.-Cornelius Jacobs, Columbus, Oho: Patente Aug. 6, 1861
ating substantially as described. pan with transverse partitions ope Second, Making the partitions adjustable substantially as and fo
he purpose described. Third, The speciifed. sonstruction of the lower edge of the part Fourth, The adjustable sirup-discharger in combination with a
Faporating pan, substantially as set forth. 1,419.-Inkstand.-Orlando K. Jadwin, Carbondale, Pa.
Patented Nov. 23, 1858 : I claim, first, Supplying ink to the pen-cup of an inkstand solely e supplied in said cup.
Second, I claim a closely fitting plunger, c, In combination with a
well or chamber, b, substantially as and tor the purpose set forth. Well or chamber, b, substantially as and for the purpose set forth. ure of the bot tom of a plunger upon the ink to be supplied to said
cup, I claim forming the bottom of such plnnger with a cavity sub
stantiall stantially as and for the purpose set forth.
Fourth, I claim so apppying an ink or pen-cup to the plunger of
ountain-inkstand, that when the pen-cap is charged with ink nk tain-inkstand, that whe the pen-cap is charged with ink, th
nk will remain therein, though the plunger be elevated out of the
owl of the inkstand. 1,420 (A.)-Car Spring.-Richard Vose, New York City
Patented March 11, 1862: Patented March 11, 1862
I claim the combination or interposition of a packing of elastic
gum or its equivalent between the cois of a a spiral or heilcal metal
ic spring substantially in the man gum or
lic spri
forth.
len

1,421 (B.)-Car Spring.-Richard Vose, New York City Patented March 11,1862 :
Inetain the use of longitudinally indented, grooved, or channeled, 1,422.-Cotton Gin.-Mary Jane Brown, Brookifn, N. Y. admistratrix of the estate of Hiram W. Brown. de ceased, late of Mellville, N. J., and assignor to her self and Jeremiah Johnson, Jr., and Franklin H. Lum York City, the assignees of said decedent. Patente March 23, 1858
stripping plate in their relagion to the grating of the teed-board, sub-
stantially in the maner and for the purposes set fcrth. Second, The employment in combination with the roller, B, strip-
ping palate, L, and pressure plate, , , of the yieding or vibrating feed oard, having its grating formed ot alternate sets of rods o, and $n$,

1,721.-Pistol Handle.-Daniel Moore, Brooklyn, N. Y, :
EXTENSIONS.
Carding Engine.-Jeptha Dyson, Philadelphia, Pa. Pa
tented Feb. 20, 1849: tented Feb. 20, 1849 :
I claim the cylinder, A, surrounded or clothed with a spiral fllet of
metal eeth, in form of wire; or with teeth of metal of the form and
description mentioned and des description mentioned and described in the 4th specification as ar rangedand employed in the 3d and th th specifications, in combination
with the main cylinder, C, and with the cylinder, B, as with the main
cylinder only to stripand clear the latter by a self-acting contrivance Whilst the carding engine is in operation.
Ialso claim the cyllinder, B, in combination with the cylinder, A, and the main cylinder, C , as applied to
former and to deiiverthem to the latter
Machinery for Separating Flour from Bran.-Issache Frost \& James Monroe, Albion, Mich. L.etters Paten
dated Feb. 27, 1849. Re-issued March 13,1855; again re-issued May 11, 1858, and also again re-issued Feb 25, 1862:
eatures hereinbefore severally described and severally the essential and for the purropsesespecififed in the several numbers.
Second We also claim the combination of the essential feature herinbefore severally tescribed and severally numbered 1,2 and and 5 ,
or their equivalents substantially as they are described; the pur pose of the combination being substantially as set forth in number 5 .
Third, we also claim the combination of the essential features
ereinbefore severally described and severally numbered 1,2 and 6 , er their equivalents, substantially as they are described; the pur-
Fourthe combination being substantiall as set orth in number 6 . efore severally described, and severally numbered 1, 2,6, and 7, or heir equivalents substantially as they are describ
Fifth, wembination being substantially as set forth.
Flaim the combination of the e
and 7 , or their equivalents substantially as specified; the purposes
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dependent upon the final result.
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## 4hatice

. K., of N. Y.-In referring to articles which have ap peared in the Scientific American, it would save us much trouble If correspondents would menti on the pages instead of the dates. Your artcle is well written, but of no generalinterest to our class
C. B. R., of Mass.-Colonel Bissel, who has charge of the engineering operations for cutting the canal to isolate Vicksburgh, is a practical engineer, and is well acquainted with excavating machines. If they can be applied to his purpose, he will, we think, notraid
J. F., of Ohio.-The chloride of calcium ismade by dissolving marble in muriatic acid, then evaporating the free liquid and fusing the solid product. - It is a white crystalline substance, and absorbs water rapidly from the atmosphere. It is employed to dry gases and abstract water from alcohol. It must be kept in a sealed bottle or it will become quite damp.
M. P. H., of N. H.-Molds made of common clay will re main plastic for a considerable length of time after being formed and they may be hardened almost like stone by heat. They requirs to be dried slowly or they will crack. A little glycerine mixed with period. By referring our polds notice the subscription price of the Scientific American.
J. S., of Ill.-Glass tubes only are suitable for barometers. They may be of any diameier, provided they are smooth and equa In the size of bore. Crude mercury will not answer for filling them The method of purifying mercury for barometers is described in most treatises on chemistry. Neither tin, copper or mate with these metals.
J. B., of Pa.-The way to make a good lubricating oil for clocks and fine machinery is to mix common sweet or sperm oil with its own weight of alcohol in a vial, agitate it occasionally for a few hours, allow it to settle and use the clear. Pure glycertion not congeal in
H. S. R., of C. E.-We cannot give you more information respecting the "photographicfcamera" than is obtained in the ad verticement to which yeu refer
L. P., of Mich. -The volume of D. Kirkaldy, containing an account of his experiments with iron and steel, is not republished in this
R. S.,
R. S., of Mo.-The enamel gloss upon shirt collars and bosoms is the result of practical skill. The linen must be wel starched, then a clean iron, hard pressure and friction upon the
cloth, will produce the gloss. clot, of N B
W. E., of N. B.-Machinery for scutching and preparing Alax for spinning to make cloth, is not manufactured in this vicinity The best machinery for preparing spinning flax, that we have seen, was made at the works of Sir leter Fairbairn, Leeds, England. The plant which you have sent us is the common milk-weed. Its fiber is beautiful, but very weak. It may be rendered suitable
C. E. K., of Mo.-The principalingredient in potter's clay is silica. The common kinds consist of about 60 parts of silica, 30 of alumina, 1 of iron and 1 or lime. The iron and lime are im purities. In making pottery the clay is ground, then molded or baked in a kiln heated to a lire carefuly dried and afterward
T. R. H., of Mass.-We have seen frictional gearing successfuly applied to as smallmachines as hay*cutters
R. H., of Md.-Address Mr. F. Storer, chemist, Cam. bridge, Mass., respecting his experiments with alloys.
O. L., of N. H.-We dont know what kind of sand you use in molding your castings, therefore cannot say whether it is good or not ; if the castings are rough, the facing you use isnot suit able; fine fiour, charcoal and black lead, are used by molders for this purpose. If your patterns don't draw, the draft must be bad, or perhaps there is some glue about them that, by getting damp, causes the sand to adhere. Finels-sifted loam is the best material for molding smooth castings.
F. C. W., of Wis.-Your engine will work up to about 20 horse.power. You will require ifteen square feet of heating surface for every horse-pgwer. If your boiler contains that amount you will have enough. If not, not. From the dimensions you have sent us, your boiler appears large enough to drive two such engines work at, and of the whole matter
A. E. T. Jr., of Ohio.-The composition for priming percussion caps consists of fulminating mercury, 3 parts, by weight; chlorate of potash, 5 parts; powdered glass, 1 part. This powder is very dangerous. Another fulminate for percussion caps consists of the chlorate of potash, 6 parts; sulphur, 3 parts; powdered glass, 1 part; charcoal, 1 part... You will find a very full description of the mode of making percussion caps on page 392, Vol. IV (new series) of the Scientific Agerican.
A. W. B., of N. Y.-Nitric acid is employed to ettch steel plates for engraving. Those parts of the plate not to be etched are covered with a varnish made of resin and wax. Mechanical draw ing is taught in the Cooper Institute.
C. A. B., of Mass.-A ball fired vertically will descend with the same forcewith which it was projected, minus that which is absorbed by the resistance of the atmosphere.
E. B., of Mass.-Steel wire is used for clock bells. Apart from the "surroundings" of wire bells in clocks, the wire itself miserable music.
A. S., of N. Y.-Hard india-rubber is polished like the fine metals. No oil is used in the polishing operations, as it tends to sof ten the india-rubber.
W. M. F., of N. J.-On page 384, Vol. VI of the Scientific Americhn, you will find a description of a projectile on the same
principle as yours. We do not think you could obtain any patent principle as yours.
on your invention.
S. C., of N. Y.-Fire-clay tiles are manufactured at sev* eral works nearthis city, but we know not where tiles similar to those used in England for malt-kilns are made. Z. T. W., of $\cdot$ R. I.-Your sketch represents a coil of pipe heated by steam placedin a vessel for "tryinglard." You inquire
if a patent can be obtained for the improvement. This mode of if a patent can be obtained for the improvement. This mode of
heating boilers by steam is at least half a century old, and is not therefore patentable. Try again.
G. T. C., of Mich.-All our soda ash is imported. You state that the manufacture of this substance may be rendered a prefitable business in a salt country, like that where you reside. This depends on the cost of sulphuric acid, which is required in its
manufacture. At present soda ash could be manufactured at less cost near the sea-board than in the interior of the country.

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O. R. S., of N. II.; H. B. M., of N. Y.

