

ISSUE D FROM THE UNITED STATES PATENT OFFICE or the weer ending october 28, 1862.
Reported offrially tor the Scientific 4 neerter
Paterts, Pamphlets giving full particulars of the mode of applying for Pypge size of model required, and much other infor or ation usefult
nventors, may be had gratis by addressing MUNN $\&$ CO., Pubiliberi of the Scismyitio Akrxican. New York.
36,760.-Ethan Allen, of Worcester, Mass., for Improve ment in Back Sight for Rifles
olaim plate, $A^{\prime}$, and disk, B, construc
I olaim plate, $A^{\prime}$, and disk,
and for the purpose set forth.
36,761.-C. H. Amidon, ot Greenfield, Mass., for Improved Wringing Machine
I claim, in combtnatione with a turning shaft, $G$, that serves as a
$s$ haft and brace both, and the rising and falling crossbars, E , the ar
 out producing undue a pressure an the on there
the purpose herein set forth and explained.
36,762.-C. M. Atkins, of Pottsville, Pa., for Improvement in the Construction of Railroad Cars I claim the cast-iron brackets. D. When applied to the inner sur
faces of the angles or corners of the car bed or frame, and used in connection with the external
the purpose herein set forth.
[This invention is designed to strengthen the framing of railroad cars by causing the ends of the timbers, which comprise the car bed to be secured much more firmly together than hitherto, so as to of fectually prevent the springing out of the side and end pieces of the car bed.]
36,763.-George Bailey, of Buffalo, N. Y., for Improvein Presses for Stamping Tickets, \&c. I claim, first, The combination with the inking ribhon and pawls,
of two shifting levers or other equivalent devices, so arranged in res pect to the plate or arm to which sald pawis are atitached as to effect
the shifting or reversing of the direction of travel of the inking ribbon, in the manner substantially as described herein
Second, 1 claim, in combination with the stamp ribbon, a set of numbering or dating type wheels, arranged and oper ribon, a set of numbering or dating type
ating substantially in the man ner set forth.
36,764.-A. C. Bouk, of Clinton, Iowa, for Improved Mode I of Rafting Logs aud Timber :
I claim the application of booms tor ratting logs and timber in any
waters, so as to save the timber rafted from loss either by boring eve. waters, so as to save the timber raf ted from loss eit her by boring eve.
ry log or by obstructions liike bars and snags, thussecuring the timber
rafted and transporting the same without diminishing either quality or quantity.
36,765.-L.D. Bunn, of Morristown, N. J., for Improvemen in Corpse Preservers:
claim the arrangennent of the cooling board, C, with head piece, a,
combination with the body chamber, $A$, ice box, $D$, and air cham ber, E, all constructed and operating substantially in the manner and
for the purpose shown and described 36,766.-G. W. Buss, of Boston, Mass., for Improvement in Wagons :
I claim, first, supporting the wagon by means of the lever or levers
and spring or springs, arranged with regard to each other and to the and spring or springs, arranged with regard to each other and to the
axde, ubstantially as described. so that the spring or springs shall be
acted upon at such a point of the lever as receives comparatively the short est play or motion, as set forth.
Second, In combination with the lev
$r r_{r}$ as described and for the purpose spectified , crossbar, 11 or Third, In combination wih the lever or levers, it, and a
$\mathbf{3 6 7 6 7}$.-D. M. Cummings, of Enfield, N. H., for Improve
ment in Adjustable Hames : I claim, frist, The combination of the clasp, $D$, and its projections, b b, with the face plate, E , and its indentations, a a a a, constructed
and operating as above set forth.
Second, The combination of the terret, C , with the clasp, D , as above described.
Third, The combination of the face plate, $L$, with the clasp, $D$, and
the terret, $C$, constructed and operating as above set forth. 36,768.-J. C. Day, of Jersey City, N. J., for lmproved Hammock Cot :
I claim the portable army hammock cot constructed and arranged
substantially as described and shown.
36,769.-David Dick, of Meadville, Pa., for Improvement in Apparatus for Mineral Oils as Fuel
I claim, first, The employment in a mineral oil furnace of pumice
stone or orther equivalent porous incombustiole material, through
which the oll flows, and upo the surtace of which it is burned sub
 employed as fuel, with a water space surrounding the same, substan-
tially in the manner described for the purpose of prevening theover-
heating of the furnace, and the consequent generation of gas in the frebox, as set forth.
Third, The combination in a mineral oil furnace of a water cham-
ber, a firebox, and a series of air flues, substantially in the manner and for the purposes described.
Fourth, The extingination of an exingher plate with a firebox
and air tubes, substantially as and for the purpose specified, and air tubes, substantialy as and for the purpose specifed,
Fif th. perforating the extinguisher patate. as described, for the pur-
pose of perniting the escape of the gas, and preventing the entrance pose
of air
36,770.- John Dickinson, of New York City, for Improve
ment in Apparatus for Dressing Mill Stones
 to produce the results hereinefefore set forth.
Second, I Ilso claim the combination of the graduated scale, $\{2$, and
adjustabie stop b2 with the lever, T , and scroll cam wheel, $I$, for the adjustable stop, b2, with the lever, L , and scroll cam wheel, 1 , for the
pr rosese hereine hefore se forth.
Third, I also clain the use of the raised ledge, c2, on the upper side
forth.
Fourth, I also claim the use of the two strips of steel, f2, as a shield
for the seting of the diamond in dressing mill stones in combination
 lower. sutace of the double guide way, so as to form a channel for
the shiexts, ti, to beadiusted in, in combination with the shields, f2,
for the pwrposes hereinbefore set forth. 36,771.-Ambler Edson, of Cambridge, Ill., for Improved
Washing Machine : I claim the slides, $\mathbf{C} \mathbf{C}$

36,772.-Leonard Eggleston, of Battle Creek, Mich., for Improved Mode of Filling. Bags with Grain :
claim the combination of a movable hopper with the manner of

## holding it in the required position, and the m bag to the hopper, substantially as set forth.

36,773.-A. H. Fmery, of New York City, for Improve ment in Projectiles for Rifled Ordnance : I claim, first, The construction and use of a a soft metallic point a
ranged with a sub caliber properte, substantially as and for the pu
pose herein described and set forth. Second, The construction and use of the compound-metallic sabot
arranged with a sub-caliber projectile. substantialiy as and for the
purposes herein 36,774.-Josiah Eveland, of Elizabeth City, N. J., for Im proved Mode of Connecting Fellies of Wheels. proved Mode of connecting Fellies of Wheels :
I claim having the sockets, $\mathbf{C}$ C', provided respetively with a ta
pering dovetail tenon and a tapering dovelail recess, fitting and oper pering dovetail tenon and a tapering dovetail recees, fitting and oper
ating together in the manner herein shown and described, so as to
form a tirm but easily separable connection between the ends of the form a arm but easily separable connection between the ends of the
fellies and prevent all lateral and inward spreading or bending of the
felly ends, ass set fort [The object of this in
The ober of ont on is to obain a ooupling for connectin together the ends of wheel fellies, in such a manner that they will
not be liable to be depressed or forced inward under the weight to which the wheels may be subjected when attached to the vehicle, and at the same time admit of being very readily applied to the fellies, form a firm connection and one capable of bein
greatest faclity in order to form the cornection.]

## 36,775.-Geo. B. and C. B. Garlinghouse

Ind., for Improvement in Harvesters
We claim, frst. The conical or conoidal coupling hinge, $K K^{\prime} \mathrm{L}$
and set screws, F
F, 'a harvester in the manner and for the purposes set forth.
Second, The branched poitman, m m maving conical or conoida gudgeons, $K^{\prime}{ }^{\prime} \mathrm{K}^{\prime \prime \prime}$, adiustable in, the line of their common axis, with
n corresponding sockets in the cutter bar by means of a sorew, in corresponding sockets in the cutter bar
or its equivaleut, substantially as set forth.
36,776.-J. T. Gilmore, of Barton, Ohio, for Improvement
in Machinery for Training, Staffing and Fine-dressing
of Mill Stones
I claim, first, Specitically, the employment of the arm, S , with its
do veatiled guide,
structed and the socket slide and set anerating as and, f and g , con-



 and lever nut, y, the whole constructed and operating as described
and for the purpose specifed.
Third, I claim the mode described for attaching the machine to the
bed and runner stones by means of the branched straps and grapbed and runner stones by means of the branched strap
pling arms. secured as described for the purp sese set forth
Fourth
 secured by the screws, , and g, as described, and operating in combi-
nation with the horizontal
specified.
Fifth, I claim the peculiar arrangement for using and controlling Fifth, I claim the peculiar arrangement for using and con trolling
the diamond, in combination with the said arm. S , tee parts constitu
ting said arrangement being formed of the stock, j, diamond handle i, ploted to said stock at $m$, spring, $u$, hookked finger, o, lever, p, and
handle,, , constructed and operating as set forth and for the purpose specified.
Sixth, $\begin{aligned} & \text { claim attaching the arm, } \\ & \text { socket slide, with its and screws, } f \text { and } \text { g. to the circular plate, } F \text {, said piat }\end{aligned}$ having a shoulder, t, as shown in Fig, 9, and using the same in com
bination with the sleeve, $D$, and hollow journal, $A$, as described and ination with the slee
for the purpose stated.
36,777.-Benj. Gonzales, of Goodland, Ind., for Improved Chest and Table for Bread-making :
prisedin the method of opening and closing the flour chest, Eom chest, E, by lowering and raisiug the molding board, A, the relation
of the flour chest, E. meal chesto B, and moding board, A, the rela
tion of the side depositins, $\mathbf{v}$ B, and molding board, A, and the mode of attachment of meal ches
B , to flour chest, E , in the manner and for the purposes described. 36,778.-B. F. Gossin, of Cincinnati, Ohio, for Improve Railroad Rails
 vices substantially equivalent, he whole being combined and ing together, as set forth.
Second, I claim the yielding supports,
of the biank, in the manner set forth.
36,779.-Sebre Howard, of Elyria, Ohio, for Improvemen
in Breech-loading Fire-arms
I claim, first, Combining the barrel and the stock of my improved
fire-arm with each other through the medium of the hollow breech piece, $B$, which has an oblong opening in the side thereof or the tem
porary receptinn of a metallic cartridge; but this I only claim whe the said cartridge is driven forward into the chamber of the barrelo
the fire-arm and is then provided with an unyielding recoil block b
 stantially in the manner herein set forth.
Second, 1 also claim opening and colosing the lateral aperture in the
breech piece of my improved breech-loader by means of the tubular
pist breech viece of my improved brech-loader by means of the tubula
piston, E , which fits accurately within the bore of the main compart
ment of said breech-piece, and is operated therein in a longitudina ment of said breech-piece, and is operated therein in a longitudina
direction, substantialy in the manner herein set forth.
Third, I also claim operating the tubular piston. $E$ by means of the Third, I also claim operating the tubular piston. E, by means of the
levers, F and G, in connection with the slot in the under side of the
tubular portion of the breech piece, B, substantially in the manner tubular portion of the breech piece, B, substantially in the manne
herein set forth.
Furt, 1 also the the arrangement of the trigger, e, the bridle,
the sear, ce, and the sear spring, i, with each other and with the ham the sear, c, and the sear spring, , with each other and with the ham-
mer rod, H, tbe mainspring, b, the tubular piston, E, and the levers,
F and $G$, substantially in the manner and for the purpose herein set
Firth. I also claim the arrangement of the set trigger, $g$, and the
Fliding pin, $y$, with the sear, c, and the ever, $F$, substantially in the
 by slipping a portion of the butt of the former within the mouth, o
the later and then securing said connection by means of the ears, the later, and then securing said connection by means of the ears,
and w, the hinged loop, h, and the set screw, m, in the manner herein
repred Seventh, I also claim combining toothed and movable valve-plug, $g$,
with the heed, O, of the tubular piston, E, and with the valve seal
within the same, in such a manner that a slight degree of inward pressure upon sald valve plug will produce a perfectly tight joint a
that end of the saidtubularpiston, substantially as herein set forth. 36,780.-J. M. Grosh, of Shaefferstown, Pa., for Improvement in Harvesters
substantially, as and for the purpose described. ${ }^{\text {I }}$, The Second, Widening the claws of the dinnining device between thetr axis
and their inner curved edge, sibstantially as and for the purpose de scribed. The arrangement of means specified for opening and closing
The clidaws alternately, as set forth. 36,781.-Thomas Hunter, of New York City, for Improve ment in Portable Shields for Riflemen
I claim the portable folding armature $\mathbf{S}$, made of thre or more
shot-prof sections. A B C, connected by hinges, a b, substantially as
described, so that the same can be used as an armature, table or bed stead, in the manner specified.
And I also claim the application of the rest, $F$, in combination with
the section, $C$, of the armature, $S$, as and for the purpose set forth. [The object of this invention is to produce a shot-proof armature o shield, which is capableot being carried from place to place and put upon the desired spot with ease and convenience, and of protecting their rifles while taking aim, said armature being constructed in such a manner that it can readify be folded up when it is detigned to move
the same from place to place, and that it can be convertedinto a bed stead or table, as occasion may require ]
36,782.-Daniel Hussey, of Nashna, N. H., for Improve ment in Bobbins
I claim the double-coned bobbin or spool,' made as described, and
the formation of the mass of roving thereon, in the improved manner
substantially as sjecified 36,783.- Huchins, of Norwich, Conn., for Improved Camp Bed:
I claim the folding frame, a, in combination with the pillow, $n$,
rod, , a nd legs, dg $j$, arranged substantially in the manner and for
purpose described. 36,784.-J. H. Jones, of Dayton, Ohio, for Improvement in Separator and Smut Machines
I claim, first, A scouring cylinder, which answers as a concave
or a smut or grain clearing machine, whose inner circumference or a smut or grain clearing machine, whose inner circumference is
dressed with a scrsw or spiral scouring surface, substantially as and
 fecond the comber, whose blades, J J, and wings, dd are arranged
and, of a berate in the manner and for the purpose substantially as de. ncribed. The sieve and frame, $\mathrm{J}^{\prime} \mathrm{J}^{\prime}$, so constructed and arranged on a
Third, The Third, The sieve and frame, J J', so constructed and arranged on a
mut or grain-cleaning machine that the frames supports and acts as
prings to the sieve, substantially in the manner and for the purpose described. .
Fourthe combination of the screw concave, the beater, the
trunks, M , suction spout, H H, fan, D , sieve, $\mathrm{J} \mathrm{J}^{\text {a }}$ and shaft, B
 36,785.-W. H. Jordan, of Roseville, Ind., for Improve ment in cultivators:
raised and the plows, $J$ ', when arranged so as to be simultaneously
or bar, $J$ la sin show of the bars, I $G$, connected by a rod or bar, J, as shown, in connection with the laterally adjustable frame,
A, connected with the axle, E , and all arranged as and for the purA, connected
[This invention relates to a new and improved oultivator for plow ing those crops which are grown in hills or drills, such as corn otatoes, $d \mathrm{c}$. The objent of the invention is to obtain a cultivato thi plows so arranged that they may be lifted from and adjusted in the ground more readily than those hitherto devised, and also ave the draught pole so arranged that the line of draught may hereby placed under the complete control of the farmer, so that h nay readily guide the machine to conform to the sinuosities of th rows of plants, and also readily raise the plow above the surface of he groundin turning at the ends of rows.]
ment in Mode of Attaching and Detaching Whiffle trees
 36,787. - John Lees, of Racine, Wis., for Improvement in Churns
I claim the construction and arrangement of the dashers, No. 2 No.
3, connecting rods, No. 3 No. ${ }^{\text {, attached to triving whel, No. I, }}$ the
whole constructed and operating kubstantially as hereinbefore set orth.
36,788.-C. McGinniss, of Chicago, Ill., for Improvement in Smut and Separator Machines
I claim, first, In combination with the surrounding perforated in
 Second. Arming the scourer, $G$, and the vertical ribs, $g$, and uppe
head of the cylinder, $G$, with ovalform proiections, $k^{\prime}$, as described Third Providing for, the unito form distribution of of the denain in in it
assage from the shoe. $U$, to the shoe, $V$, by means of inclined dis passage from the shoe. U, to th $e$ shoe, $v$, by means of inclined dis
ributing channels or their equivalents, on the bottom of the shoe, $U$ sbstantially as described.
Fourth. The combination of the slotted adjusting rods, $\mathbf{w} \mathbf{w}$, and
Hinges, u u, substantially as and ior the purpose described. hinges, $u$, substantially as and for the purpose described.
Fifth, The combination of the fereening shoes, U a and $V$, with the slotted adjusting rods, wi w, and hinges, us, the whole arranged and
operating substantialiy in the manner and for the purpose described 36,789.-John Platt and William Richardson, of Oldham England, for Improvement in Cotton Gins:
We ciaim, first, The two alternately reciprocating blades, ch, con-
structed and arranged to operate in combination with each other and
with the roller, a, and breast, b, of the McCarthy cotton gin, in the explained. Second, The employment or use of combing or carding instruments,
substantially as herein described for opening the materialpreparatory a its presentation to the ginning mechanism, a b c.
Third, The transering comb, iv construct as described, and
employed to present the material in tufts to the ginning mechandsm. a bo, substantially as and for the purposes set forth.
Fourth, The elastio or yielding connecting rod, $o$
Forate the comb, $u$ v, substantially in the manner described.
36,790.-N. W. Northrup, of Greene, N. Y., for Improve ment in Combined Car Wheel and Car Axles
ination with the tight wheel, E, in the manner and for the purpos
36,791.-Glendy Moody, of Falmouth, Maine, for Improve
ment in Machines for Spreading and Turning Hay:
I claim, first, A reciprocating bar, M, with forks, $L$, pi ${ }^{\text {oted }}$ to it,
nd operated by means of cranks or other equivalent eccentric move nent, substantially as and for the purposes set forth.
Second, The combination of a carriage $A$, with sui
earing and a series of independently reciprocatine torks, $L$, whic receive a united reciprocating motion from a series of cranks or
pquivalent eccentric means, substantially as and for the purposes set
forth Trth.
Third, The cross bar, N, with its slots, i , and loops, i, or equivalent
neans, in combination with the uprights, g g, for the purpose of ad justing the forks, substantially as described.
Fourth, The swicelling eyes, f, in ocombination with the bar, $N$, and
pivoted forks, L, sulvstantially as and tor the purpose set forth. 36,792.-G. A. Poppy and C. H. Colegrove, of Rochester Ohio, for Improvement in Water Elevators:
I claim the compound clutch and brake, $G$, in combination with he spring lever, L, weighted pawl, F', and pulley, C, when these part are cons
set forih.
36,793.-N. B. Powers, of Lansingburgh, N. Y., for Im
proved Composition for Sizing for Use in the Manu facture of Floor Cloths, \&c.:
I claim the employment or use of a sizing compound made of the
within described ingredients mixed together in about the proportions
specified. This consists in the employnd composition of blood and lime, either alone or in combination with other ingredients, to be applied to canvas used in the manufacture of ool oil cloths, or to other textile fabrics or paper.]
36,794.-N. B. Powers, of Lansingburgh, N. Y., for Im proved Composition for Sizing and Steeping Floo I clain the employment or use of a sizing compound made of the in
redients herein specified, and mixed together in about the propor tions set forth.
This invention consists in the employment as a sizing compoun of ther ingredients, to be applin, either alone or in combinalos use in the manufacture of floor ofl cloths, or to any other textile fabric or paper.]

36,795. John Price and William Lewis, of Danville, Pa. for Improverent in Piles for Railroad Rails:
 points of its fianges and the n
purpose shown and described.
[An engraving and full description of this invention has been pub , Me Bi
36,796.-M. B. Riggs, of New York City, for Improve I claim, first, The construction of the finger with a cavity, $E$, so ranged as to permit the fastening of the stationary catter, J, so described; and also, so as t. secure nearly equal thickness to the walls,
sides and parts of the finger throughout, as and for the purpose
hereinbeforedescribed. Second, I elaim fastening the blade, J, beneath the cutter bar, in
the manner set forth and for the purposes specified. 36,797.-J. B. Roach, of Elizabethport, N. J., for ImI flimpene combination of the two inclined pieces, B : , and adI ctining the combination of the two inclined pieces, $\mathbf{B}$ C, and ad-
justing screws, jg, with each other, and with the valve seat, a a and and
back, b b, in the manner herein shown and described. 36,798.-Gregory Roth, of Cincinnati, Ohio, for Improvement in Candle Molding Machines
I claim the arragement of the stationary perforated racks, $\mathbf{B ~}^{\prime} B^{\prime} B^{\prime \prime}$ and the perforated slide, C, udapted to retain and center the candle
while permitting the descent of a full-sized tip mold, substantially as
set forth.
36,799.-Thomas Rowe, of New York City, for Improve-
ment in Machines for Crushing Linseed, \&c.:
ment in Machines for Crushing Linseed, \&c.
I claim introducing the substance to be crushed through a channel,
e passing down throug the center of the vertical shatt, Gand dis:
charging through the aperture, f, between the crushing wheels, E ,
36,800.-John Rynearson, of Farmington, Ill., for Improvement in Harvesters I ceati, frst, In the described combination with the vertically
curved latiorm, G, the rake, H, pivoted to and projecting horizon,
tally forward from the rake arm, i, by which it is parried in a vertical
orbit, all as herein shown and described. orbit, all as herein shown and described.
Second, The guide, L , and spring, h, operating in the described
combination with the piroted rake.-head, H, to present it in the
proper position to gather the grain, and afterward retract it thereproper position to gather the grain, and afterward retract
from.
Third, The fere
 Folvirt,
Fing rake, $H$, 1 , substanally as and for the purpose explained.
trans Fifth, A platform constructed of vertically curved slats placed
transersely of the matchine at sufficent distance apart od admit the
points ot the rake teeth bet ween them, when used in combination with the rake, $H I$, revolving in a vertical orbit, all as herein shown
[The prominent feature of novelty in this invention isa raking de vice, so operated and regulated as to remove the grain from the plat form, in compact even gavels without scattering.
36,801.-Daniel Sager, of Albany, N. Y., for Improve ment in Self-Acting Wagon Brakes :
I claim the brake block, X , formed as shown and fitted to resolve
reeiy upon an axle from the extremity of the brake bar, for the purfreeiy upon an axle from the extremity of the brake bar, for the pur-
pose set forth.
The mode of construction by which the brake-block is fitted and pose set rorth.
The monstruction by which the brake-block is fitted and
secured upon the axle, to wit, the combination of the orifice, $M$, the

36,802.-James and A. W. Sangster, of Buffalo, N. Y., fo Improvement in Lamp Chimney Fastenings: We claim the stationary lip, I, the movable lip on the lever, F, the
spring, E, the thumb piece, $K$, and the aperture, V, arranged in the
manner and for the purpose herein set forth
O803.
36,803.-David Saunders, of New York City, for Improve ment in Machines for Cuttin Y and Planing Metals: $e^{\prime} e^{\prime}$, actuated by the shafts, $\boldsymbol{I}^{5}$ and 6 , and gearing connecting the
the same, in combination with the table, $g$, applied as and for the purposes specined the shart, $h$, and wheel, $h^{\prime}$, in combination with
second, claim the said plates, $c$ and $d$, adjusted as aforesaid, and applied in the
the sind
 stantially the manner specibed, so as to providef or inclining the second
bed, 1 , as and for the purposes set forth.
Fourth, I claim the arrangement of the gearing, 131415 and 16 , for slide, u, as set forth.
Fifth, I claim the slide, $u$, applied as aforesaid, in combination wit the tool stock, x, and rottary lever or cutter, $y$, fitted and acting as and
for the turposes specified. 36,804.-O. Sherwood, Jr., of Independence, Iowa, fo Improvement in Grinding Mills
uponit, and arranged as shown in in connection bed-stone, c, place the spindle or
sbaft, B and the upper stone or runner, so as to be operated throug shaft, B, and the upper stone or runner, so as to be operated through
the medium of the brigge-tree, $G$, for the purpose herein set forth. tones for the purpose of causing them to grind finer or coarser a may be desired, and consists in having the bed-stone arranged in such a manner that it may be raised and lowered on the spindle, while the a rotary motion only.]
36,805.-J. D. Smedley, of Chicago, Ill., for Improved I claim, first, The arrangenent and combination of the trough : grate, A, and the airreconditetingn pind and B B B, substantially as described
and tor the purpose above set iorth. Second, The arrangement and combination of the trough or grate,
A, the arr-conducting yipes, B B, \&c.,. and the'supppy pipe. D, with its
gage cock I, appended, substantially as described and forthe purpose above set forth.
Third The arrangement and combination of the trough or grate, A
 for the ritriose above set forth.
Fourth. The arrangement and combination of the trough or grate
 Fiftch. I claim so constructing the trough or ser grate, A, narrowin
rom its upper surface and edges at an angle or curve to the bottom from its upper surface and edges at an angle
as so present continually reducing areas of
described and for the purpose above set forth.
6,806.-W. S. Smoot, of Washington, D. C., for Improve
ment in Combined Time and Concussion Fuses for Shells:
I claim, frist, The improvement in the means of igniting time fuses
y combining the windage and concussion primciples, snbstantially as by combining the windage and
and for the purposes set forth.
Second
Second, The 1mprovement in timefusesof providmp them with a
comm mication writh the shell, closed by a sididing falte or prunger
fust above the point at which the fuse ignites, substantially as and or the purposes set forth
36,807.-F. B. Stevens, of New York City, for Improve ment in Surface Condensers
I claim closing the ports of exit and entrance of a condenser or
cooler of a steam engine, and attaching pines leading to the boiler and
to the atmosphere, substantially as described
36,808.-F. B. Stevens, of New York City, for Improve ment in Shields for Surface Condensers :
I claim a guard enclosing a surface condenser or cooler, placed on
he outside submerged surface of a vessel, substantially ald described.

36,809.-F. B. Stevens, of New York City, for Improvement in Surface Condensers: I claim forming a surface condenser or cooler, by a system of
headers, elbows nnd horizontatal tubes placed on the submerged surface
of a steamer, as herein set forth and described. of a steamer, as herein set forth and described.
36,810.-F. B. Stevens, of New York City, for Improve ment in Surface Condenser
I claim, first, Forming a surface condenser or cooler on the outside
submerged surface of a steamer, by placing there one or more thin submerged surface of a steamer, by placing there one or more thin
and fiat passages, containing the steam to be condensed or water to
be coled, and having a lamina of the water in which the stenmer
fio he cooled, and having a lamina
fioatsinterosod between them.
second, the passages so arra
36,811.-James Thompson, of Vevay, Ind., for Improve ment in Churns
$B^{I}$ I claim the arrangement of tome, A, having the flaring crotches, $B$ handle, F, and the tongue, c, which tongue is adapted to couple with
the notched shaft., the whole being constructed and operating in
the manner set forth. 36,812.-A. C. Twining, of New Haven, Conn., for ImIroved Mode of Uniting Timbers: steps, when formed or furnished with teeth or knobs, standing apart
and in rows, substantially as and for the purpose described. above described.
Also the construction and employment of rolled iron strips with 36,813.-Richard Vose, of New York City, for Improve ment in Car Springs :
I claim the arrangement within a suitable casing of one or mor
serisi of volute spings, I I, and a number of layers. H H, of som
elastically- yielding substance, when the requisite number of metallic elastically-yielding substance, when the requisite number of metallic
combining and steadying pates, $\mathbf{D}$ E, are arranged with the said vo combining and steadying piates, D E, are arranged with the said vo
lute spring and elastically - yielding layers, in the manner represented
by the accompanying drawings, and herein particularly set forth. 36,814.-Henry Underwood, of New York City, for Improved Belt Coupling:
 pper, to forman improved belt coupling or joint.
[This invention relates to a new and useful improvement in the ends of machine belting. The invention consists in having the onds of machine belting. The invention consists in having the ng swaged in proper form from a single piece of copper, whereby veral advantages are obtained over the ordinary rivets.]
36,815.-J. M. and W. C. Wallis, of Milton, Iowa, for Im we claim the plunger $\mathbf{D}$, Crovided winters
We claim the plunger, D, provided with the recesses, $g \mathrm{~m}$, in com
bination with the partitions, E, provided with the cut-off brush, $k$, and the elasticplates, Fib, and fixed plate, d, all arranged relativel
with eacco other and within the box, $A$, to operate as and for the pur Wose herein set forth
We further claim the stop, $G$, attached to the plunger, $D$, and pro
 ose set forth.
which are designed for manual operation and consists in a nove arrangement of a plunger provided with a seed-cell and used in connection with a cut-off or partition, spring plates, and a stop, ar ranged in such a manner that the device may be operated and the seed measured, dropped and planted with the greatest facility.]
36,816.-H. F. Wieseck, of New York City, for Improved
Sugar Tablets for containing Medicine
I claim, irrst, The manufacture of tablets of sugar rystals, bearing
numbers in figures of like material, and Second, The process wh ic c completes the manufact ur e, and end ow
he tablets of sugar cryst als with a healing power, by exhausting th air from their capilliary interstices, and then impregnating them with
alcoholtures (remediesin alcoholic form). 36,817.-John Woodward, of Wilmot, N. H., for Improve ment in Gates
I claim a gate twice or more than twice the length of the space used
as passag way, provided with he groved ranlo and fanged rollers
constructed and operating in the maner a ind for the purpose sei rib
,818.-J. G. Young, Jr., of Aubnrn, Maine, for Improved I claim, first, The arrangement of the lifting rods, $\mathbf{E} \mathbf{E}^{\prime} \mathbf{H}$, in com

 ion with the central part, B, screw, G, and nut. ,
when arranged to operate in the manner and for the purposes speci
ied. 36,819.-S. C. Crane (assignor to D. R. Barton), of Roches I claim connecting the frot piece, $B$, and the runer, $D$, of skate
ubstantially in the manner specifed, viz.: by placing the clampin points, e, at one-fourth of the width of the runner below the foo
piece, in combination with the collar, C , when the latter is con pere,
structed as described, and is placed entirely below the low
the foot piece, in the manner and forthe purposes specifed.
36,820.-Smith Groon (assignor to himself and Jacob Canister Shot
I claim a canister shot or shell, go constructed as to shoot forward
the wood or metal plyig. A, war misiles. O , and wadding, E, in the 36,821.-A. L. Poitevin, of Paris, France, assignor to Leo
pold Eidlitz, of New York City, for Application of
Photography to Printing:
ng hereinbefore described, of a plate of glass of phother suitable surfac ng heremberore described, of a plate of glass orother suitable surface
coated with a solution of gelatine which 1s allowed to set or solidity
and is then (either before or after being dried immersed in or ex
posed to the action of a solution of bichromate of potash or other chromate whose base does not produce an insoluble compound with Second, The app lieation in the process of photograp hic engraving in
manner hereinbef ore describe, of a plate or surace coated with
mixture of gelatine and bichromate of potash orother suitable mate, or first coated with gelatine, and then exposed to the action of
the bichromate of potash or other suitable chromate, in either case without the addition of nitrate of silver.
Third, The application fa gol tion of proto-sulphate of iron to the
surface of the photographic gelatine eng raving, before pouring the surface of the photographic gelatine eng raving, before pouring the
plaster upon it, in the process of taking a plaster cast from the gela
ine, as hereinbefore described Fourth. The mode hereinbefore described of metallizing the
of the gelatine before submitting it to the electrotype process.
36,822.-Lewis Powe (assignor to McCurdy \& Co.) of Pitts
Sheet Copper : Sheet Copper : ireating the sheets of copper after they have
passed through the of reducing rollers, substantially as and for the pur pose
36,823.- John Slingerland, of Greenpoint, N. Y., assigno
to himself and J. H. Kelly, of New York City, for Im
proved Window Stop : claim, first. The eombination and arrangement of the movable in
clined piece. D, and the stop, d, or its equivalent, with the elastic


36,824.-Charles Stowell, of Concord, Mass., assignor to himself and W. M. Gaylord, of Northampton, Mass. I claim my improved arrangement or application of the shield, the 36,825. - William Mullally, of St. Paul, Minn., for Improve ment in Pumps :
I claim the combination, of the hollow operating, and discharsing
rod, $K$, hollow diappragm, E $F G I$, Internal valve,
and , chambers, a b, rod, , hollow diaphragm, E F GI, internal valve, J, chambers, a b
and ports, $\mathbf{O}$ fig. the whole being arranged to operate in manne
substantially as and for the purposes set forth. substantially as and for the purposes set forth.
[This is a new and improved form of diant
[This is a new and improved form of diaphragm pump, by which ontinuous stand force and wit 36,826 Giuseppe Taliabue of
36,826.-Giuseppe Tagliabue, of New York City, for Im proved Appparatus for Testing Coal Oil :
I claim, frst, The vessel, $\mathbf{B}$, extending above the stand, $A$, and hav ng holes' in it near the top.
Second, The cap, $P$, with its projections on the outside.
Third, The ring, $Q$, in the cut, $P$, that holds the cover
Tpend, Fourth, The perforated tube, D, that surrounds the thermometer
nd enters the ring, $Q$, allowing the cover, $C$, to stand in any po Fitih, The dome, $\mathbf{F}$, with the opening, L , in front, for applying the
 rthe purposes substantialiy as described.
[An engraving and description of this invention will be found on

36,312.-Eli Thayer, of Worcester, Mass., for Improvement in Plane Angulometers. Patented Angust 26, 1862: I claim the pendulum, moving upon three or more bearings in the
same plane, and carrying upon its top a raduated arc, and its combi
nation with the spherical surfice, and the opening therein, substan ially as se forth and described in the accompanying specification 35,929 .-J. H. Foster, of Pittsburgh, Pa., for Improvemen In Attaching Movable ${ }^{\text {Patented July 22d, }} 1862$
I claim, first, Using a stereotype plate in combination with movable
pe, on a curved surface, by making that portion of the "turtle" egment of a cylinder upon which the base of the type rests, deepe Hanning the face of the the type the the sametype plate, for the the puree of curvature also for
breating a wall or shoulder against which the type may be esecured creating a wall or shoulder against which the type may be secured.
Second, I claim the use of column rules in the formof the segment
of a circle, baving grooves on one or both sides describing the same urve in combination with wedge-shaped "leads" or equinald
 type (arranged for printing on a curved surface) to a greater distance
than the base ther eof, by means of wedge shaped . Ieds" or equiva-
lent device, without requiring the type to be grooved for the purpose of retaining them in place.
Fourth I I claim the use of aserentype plate formed in such a man
er as that the face or lettered surface shall be longer and project ove he lower edge of the bearing part next to the movable type. when
ised upon a cylinder or curved surface, suflicient to dispense with the
 re-issues.
,347-No. I.-P. W. Gates, Thomas Chalmers and D. R Fraser (assignees through mesne assignments to Evaporating Sugar Juices and Solutions by Means of Steam. Patented Nov. 29, 1859
We claim the coorking or evaporating ot sirup and sugar juices by
sing steam coils, in such manner as to produce violent ebullition a he point where the steam frist expends a produce vor of its heat upon the
coils and sirup, and from such point have the ebulition gradually decrease $n$ viopence or to subside-so that the scum or reculent mater
separated from the jiies may be cased to flow toward, and equably
and completely deposit ortside of the side margin or margins of the , Wim or bod
,348-No. 2.-P. W. Gates, Thomas Chalmers and D. R. Whaser (assignees through mesne assignments to Wheeler Hedges) of Chicago, Ill., for Improvement in
Apparatus for Evaporating Sugar Juices and SoluApparatus for Evaporating Su
tions. Patented Nov. 29, 1859:
We claim, frst. The combination of the transverse stops, $F F$, and
the pan, $C$, with inclinedsides, the stops having a narrowfiow pass age equal to the width of the bottom oif the pan beneath them, sub Second, The combination of the stops, F F F, the pan, $C$, and defec
 ubstantially as and for the purvose set forth
Fourth, The combination of the deep prepa

scribed. The combination of the preparatory heaters and cleaners
Fifth, $\mathbf{B}^{\prime}$, and the defecator, $\mathrm{C}^{\prime}$, substantially as and for the purpose de scribed. The arrangement of the two sets of coils, B B, two chambers,
$\mathbf{S B}^{\prime}$ ' $\mathbf{B}^{\prime}$, and the receiving and exhaust steam pipes, h h, and the sirup $\mathbf{B}^{\prime} \mathbf{B}^{\prime}$, and the receiving and exhaust steam pipes, ${ }^{\text {a }}$, and the sirup
coks, $k$, , , ubstantially as and forthe purpose set forth
Seventh, The combination of the evaporating pan, $\mathbf{C}$, steam coils, G $\mathrm{G}^{\prime}$, or their equivalents, inclined side beaches, D , and gutters, Eighth, The combination of the inclined beaches, D D, and the gut 1,349-No. 3.-P. W. Gates, Thomas Chalmers and D. R. Fraser (assignees through mesne assignments to paratus for Defecating and Evaporating Sugar Juices. Paratus for Defecating

## We claim an eraporating pan constructed with a defecating apar ment, for the purpose set forth.

1,350-No. 4.-P. W. Gates, Thomas Chalmers and D. R. Fraser (assignees through mesne assignments to orating Pan for Sugar Juices and Solutions. Patented orating Panfor
We claim an evaporating pan for sirup and sugarjuices, construeted tion of its bottom by rising on inclined planes, substantially as set Second, 'The combination of the pan, constructed as described, and
a laterally-located defecator, substantially as set forth. extension.
arvis Howe, of Worcester, Mass., for Improvement in Boot Trees. Patented O'ct. 24, 1848 I claim the combination of the swivel and turning journal and its
bearing with the frame boot tree and mechanism for distending the parts of the leg, substantially as set forth.
I also claimin the peculiara arrangement of the bo $t$ tree upon its sup

Tax on Salaries of Congressmen.-The tax on the salaries of members of the House of Representatives will be a handsome sum. Each member is taxed $\$ 72$ por year; the Speaker $\$ 144$. The next house will consist of 204 members, and the aggregate sum realized will be $\$ 14,520$ a year. The amount derived from the employes of the house will be $\$ 7,433$.

