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gSUED FROM THE UNITED STATES PATENT OFFICE for the week exdina Jixe 10, 1862. Ictportcd oidicially tor the Scientific American.
*n* Famphlets giviug full particulars of the mode of aplying for
Hitent


35,497. James. Adair, of Pittuburgh, Pa., for Impreve






 35,498.-J. J. Agnew, of M
ment in School Globes


IThis invention consists in the employment or use of textile fabric made cither of mineral, vegetable or animal substances, or of lenther or such textile fabrics combined with each other or with leather, and material, for the purcese of mamn of metal wire or other snitable materia, for the purpe
terat-ele that glebes.]


35,500. -. S. R. Brann, of Hillsbore', Ill., for Imprevement
 all constructed and operating

- This invention consists in commecting the expansion roll with the damper by means of a double crank shatt and spring, in snch a man-
 the damper is once chosel imather whatrats or expands, the entire 3.5,501.--H. I. and C. P. Brown, of Shortsville, N. Y., for Improvement in Grain Drills:
lan tel, in, and adjustabte gaging device, E, substantially in che man-

 low,, , in combmaton with the inlet orifice, f , substantially in the
manmer and the purpose described.
3.5002 . N. T. Brøwn, of ©n@nwa, I॰wa, for Imprevement in Horse Rakes:

TThis invention whates to an improved rake of that class which are
drawuby a horse or team, commonly termed horse rakes. The invenfon concists in the employment of a revolving rake and a stop attach ment applied to a frame, and se arranged that the driver or attendant
$\mathrm{ma}_{\mathrm{a}}$, while either riding or walking, operate the stop attachment with he greatest faclity to cause the rake to revolve and deposit its load,


35,503.-W. E. Br॰wne, of Valley Falls, R. I., for Impreve
ment in Explosive Prejectiles for Ordnance:


 35,504.-T. J. Campbell, of Lincoln, Ill., for Imprevement in Automatic Revelving Ordnance:
action of the cylncler, B . Second, also clatm the luting box Second, 1 also clarm the lubri cating box, o, in combination with the
reciprecatulg swab, in, and ramiod, $n$, substantially as set forth. $35,505 .-\mathrm{P}$. S. Carhart, of
ment in Cultivators
 bar, a, of the trame by a bolt, c, and having its back and connected to
the back bar, a, of the rame by a rack pate, E, lever, F, provided with io toohied segment, i, and an adjustable
nutches, $t$, in the patate, E, to operate as set forth.
thatelass el cutivaturs higleer or lewer, higler or lower, so that the latter may penetrate a
tance into the earth, as circumstances may require.]
35,506.-Gardncr Chilson, of Boston, Mass., for Imprevement in Parlor Stoves :
athachme che separate grate motator as made, not only with a grate or its equivalent, for receiving a key or lever.
Iasol claim the construction ot he ashit mouth frame with a sock-
et for the rect pion of the said


## fire cham. the oven.

35,507.-G. F. J. Colburu, of Newark, N. J., for Lamp Re flector and Chimney Protector:
I clann the arrangement and construction of a metal sheld and re
ector for lamp chimneys in the manner and for the purnose speci I clann the arrangement and constrinction of a metal shield and re-
tector for lamp chmneys in the manner and for the purnose speci-
fied.
 in Pumps
I claink, lirst, The manner described of felling the cylinder : ibuve
 wally as destribed. Seconld The oduction passages, irs t , or their equivalent, so con Sectund, The eduction passages, 1 rs t , or their equiralent, so con
stucted and arranged as to receive the water above the piston, and
consey th underneath and throngh the eduction valve, $\mathrm{i}^{\prime}$, substantially as described.
Third, The tubular piston rod, $F$, and eduction valves, $i$ and $S$, ar

$35,509 .-\mathrm{F}$. W. Dahne, of Swansea, Glamorganshire, Great Britain, for Imprevement for Extracting Copper frem
Ores. Patented in England Sept. 26, 1860: daim the roasting a mixture of copper ore with sulphate of iron
to convert the copper into sulphate and the iron into peroxide, and then separating the sulphate of copper by hxiviation, as de
scribed. 35,510.-J. S. De Haven, of North Springfield, Ohio, for Imprevement in Grain Drills:
I claim the combination of the inclined
 other, as slown and
35,511.-Henry Evans, Jr., of Baltimore, Md., for Impreve ment in Apparatus for Steaming Oysters: In combination with a steam box I cliain the cars and tracks con
structed inud arranged substantially as described. 35,512.-J. U. Fiester, of Winchester, Ohi $\bullet$, for Impreve ment in Cooking Apparatus
I claim the combination and arrangement of the top plate, $\mathbf{E}$, mid-

i:i. F. (i. Ford, of New York City, for Inpreventent
in Window Sash:
 hooks, ind placed ine cavitien in the eddes, or, the sash, admitting of the
ready and complete removal of the sash front he window frame.
second, I clinn tastening the upper and lower sash together by
 ered, and wrotnde from the said sicket and enter and bind within the
nut, K, whicn the sash is to be raised or lowered and protrude from
the said socket and enter and bind wilhin the nit, K, when the sash is the said socket and enter and bind wilhin the nint, $K$, when the sash is
to be secured, all as explaned. 35,514.-William Fradgley, of Greenbush, N. Y., for Im-
 notch, f, in the top of the cylluder, ${ }^{\text {, the cylinder, E, with its groove, }}$,
i, and pin. H, of outer cylider, A, he whole operating together as a
cork 3,515 .-John Gibson and Michael Heberger, of Cincinnati, Ohie, for Imprevement in Hydrants:
 35,510.--Sime Qr Grover and Stephen Putnam, of Newton, Mass., for lmprovement in Coal Sifters
orthig rim, A, the suspention cross, or 1 im, C , aud slaiking handle W, with tiesir appnidags, constructell and, arranged so as to be use 25,517 J. C. H
35,517.-J. C. Hall, of Cincinnati, ©hi•, for Impreved S $\bullet$ fa
C I claim the arrangernent of box, $A$ a $a^{\prime}$, seat, $G$, ledge, $G^{\prime}$, and
hinges, E, hinged anil 1 olding back, $B^{\prime} F$, ine whole forming a con-
vertible cot, settee, desk and table, as described. 3., $518 .-$ - G . Heckrøtte, of New York City, for Impreved
Washing Machine : Washing Machine
I chim the combination of the rollors, b, the cyluder, $D$, and the
spring beings, when constructed and ar angedsubtantially in the
manimer described and for the purpose specified. maner described and tor the purpose specitied.
And I also thamm the application or the rubbing cylinder when con-
tructed with ixed revolvmg loliers, as described, in combination with he concave of rollers, $b$, as set forth.
$35,519 .-$ V. W. H॰uck, of Buffal॰, N. Y., for Imprevement in Crezing Machines
I clairm, tirst, The endless revolving bed, composed of the jointed
links,
line, will corrrespondink to ang are constructed that a transverse surface
rel



35,520.- H. N. Houghton, of Halifax, and C. H. Denison,
of Brattlebore, Vt., for Improvement in Shells for Rified Ordnance
I clam the employment of the screw bolt, F , applied as and for the
marpose specitied, as a fuse tube, substantially as described. [This invention relates to the construction of the bedy $\bullet$ an elongaed projectile of two or more pieces with interposed packing rings, the whole connected by a central screvr boll, which projects through the head of the projectile for the reception of a wrench by which it may be screwed up after theinsertion of the projectile in the gun, for the purposc of drawing the said pieces logether, and thereby so expanding packing enter the ritle grooves in case of the gun being riffed. The improvement consists in the employment of the aforesaid screw as a fuse tube by making it hollow for the reception of the fuse.]
35,521--C. T. James, of Providence, R. I., for ImpreveI claim, in combinationt with the conically - shaned taise of the shot of hard metal, an expansible base piece of solt metal, arran 35,552.-E. A. Jeffery and J. D. Quackenbush, of Corning, We clam, first, The combinention in and arrans:
 G G and F F, in sockets in their espective parts, substantially in the
manner aud for the purpose shown and described. manner and for the prrpose shown and described.
Stcond, The india rubber rings, b b, and perforat
so constructed ald arranged as by their compression te pack not only
the piston, but the joints, a it, of the cylinder, substantiall the pistun, but the
and described.
Third, The passage, $K$. for admitting water to the stufing box of the
piston rod and maintaining it there under the discharge pressure of
piston rod and maintaining it there under the discharge pressure of
the pump, substaniality and tor the purposes set forte
Fourth, In combination with the toregoing, the pertonated tube, F , and casket, $r$, for excluding water rom thtering the cylinder from the
stufing box, stbstantally as set forth.

35,523.-Geørge Jones, of Peekskill, N. Y., for Improvement in Sash Fasteners
 35,524. - Horatio R. Jones, of Addison, N. Y., for Improve ment in Percussion-Cap Priner, for Firearms I claim the spring eatch attached to the rear end of the capping to ve
to hod the trogh or stife in its place, sulvstantally as and tor the pon 35,525. (). S. Judd, of New Britain, Co
Means of Extinguishing Gas Lights : I clamine sectur, c , alpled to the gascock ayd moved ly a spring, 35,526.-J. W. Kingman, of North Bridgewater, Mass., fol Improved Mode of 'Making Buildings Waterproof:

 hepaste, substantially as described.
35,527.-Sylvester Louis, of Rochester, N. Y., for Im preved $M \bullet d e$ of Treating ©ils andFats, for Rendering
them more Useful for Burning in Lamps, Lubricating them more Useful for Burning in Lamps, Lubricating
Machinery and $\bullet$ ther Purposes : Machinery and other Purposes:
 35,528.-Lafayette Louis, of Buffale, N. Y., for Improve I claim, first, The arrangement of a melodeon tube board, includurd
 Secoid, Se combining and arranging a meledeon tube board with iannofinte as that the performer cantinstantly and at pleasure dstocon
nect the melodeon tube board from the pianoforte keys, in the man

 gilating the degree of air pressure upon the meloden teed.s, sub 35,529...W. W. Jyman, of West Meriden, Conn., for 1 m proved Fruit Can
a claim producins, the on
 35,530.--E. A. McAleer and J. Shively, of Canton, ©hio, for Improvement in Weighing Fa ucets:
 Second. The combination of the rear valve, e, main valve, C , with
he spigot, substantidly its and for the purposes set forth. $35,531 .-R$. W. McClelland, of Springfield, Ill., for Im
prevement in Hubs and Journals for Carriage Wheels I claim, first, In connection with a cast.ir on hub made in twe er
 orace and bind the two sections to each other and to the arched par
of the spokes, substanti4ly as described. I also claim, in combination with a castiron hub, sectional, adjusta.
the and removible metal boxes to take the bearings of the journal, ubstantially as and fir the purpose set for th.
I also 1 , inin, in combination will sectional aljustable boxes in th hab, the remperate bearings on the journal of the axle, sulutantially $35,532 .-$ J. W. Merrill and J. H. Rewe, of Beston, Mass., for lmprovencent in Feet-Warming Apparatus:
I ced to the stand, anal made substintianly in the manner and so as to
3.,533.--W. ©. B. Merrill, of Philadelphia, Pa, for Improvement in Coal-oil Burners
 anged within the perforated casing, of a coal-oil lamp burner, at
55,534.-W. ©. B. Merrill, of Philadelphia, Pa., for Im proved Coal ©il Lamps for Railway Cars :
abe, A, and metal base, C, with the propections, E, aud E', or thens quivalents, fir the attachment or suspension of the chinney th the detachable, scirvoir, D, and its burner.
Second, The projections, s, on the reservir, in combination with
the openings, 111 m , on the tlange, $i$, of the base, C , the spr $\mathrm{ng}, \mathrm{e}$, its
 35,535 .-W. ©. B. Merrill, of Philadelphia, Pa., for Improvenent in Lamp Chimneys
claim a lamp chimney, composed of a metal base, A, with an
nnular projection andapted to the burner of a lamp, and two or more and for the purpose set forth. I also claim hillging one or two more of the said pates or ribs to the
base and confining the same at the top, by the attachable cap, $G$, as
specified. 35,536 .—Franklin Miles, of Rechester, N. Y., for Impr••vement in Fanning Mills
I claim compunding the metion of the shoe or shoes when shaken
horizoutally, hy the iddivion of the abryt verticat wibrition
ar


 and holding the same, substamitilly as set forth. ment in Railr $\bullet$ Chairs and Rails
I claim a double-headed rail with the ribs or flanges and shoulders,
with the chair composed of the two jaws, grooves, llanges, slots, and Wrd e chair composed of the twe jaws, grones, flanges, slots, and
wedge shape movable jaw, combined as specified and tor the purposes
set forth. set forth.
35,538 . - J. H. Norton, of Beston, Mass., for Imprevement in Gas Regulators:
I claim the chamber, G, int which the gas is poured from the inlet
pipe, II, in comlnn tion with the valve, f, communicating with tiae pressure chamber, $D$, when said valve, is cormmanded by the quick stantally as specificed.
35,539-M. P. Norton, of Trey, N. Y., for Pest Office
Way-Bill Envelepe : claim a Post Ellice way
35,540.-. nathan Parker, of Biddeford, Me., for Improvement in Churns
I claim the dasher as made with perforations, arranged at an in.
clination to tts taces, to operate in manner substantially as specifict. 35,541.-M॰ses Pond, of Bost॰n, Mass., f $\bullet$ Imprevement clam the upper point of the pipe, consisting of the cup or its
nivalent, with the sand and the collar, $\mathbf{N}$, with its elongated slots, K K K', and the rim projecting into the cinp or its equivalent, all cots,
structed substantially as above spectied and operaing as described


35,542.- Paul Pryibil, of New York City, for Improve
Tension Regulator for Sewing Machines :
 pad. F., constructed and operating substantially as and tor he purpos
specified.

 bination,
set forth.
35,543.-M. A. Richardson, of Sherman, N. Y., for Im-
 the arm, C, and hinged extension, ,', the severail parts being, con.
sruated and arranged to perate in the manner and for the purpose
specifed

| specieied. |
| :---: |
| second,,$~$ |

Second, The use of the lever, a, upen which the botom of the shaft
 Third, The use of the bar, L, lever, M, and scale
35,544.-Michael Ritner, of Vincennes, Ind., for Improvement in Sawot for Projectiles of Riffed Ordnance:
 of consituting a cushion to receive the percussive force of the ex plosion, and adapted to expand
effectually prevent their escape.
[The object of this invention is to permit the use of leaden proiec tiles onguns of large caliber. The sabot is made to act both as a cushion and a packing, and prevents the slugging of the ball either by the heat, friction or percussive force or the gases.
35,545.- Henry Ruth, of Summerfield, Ill., for Improve-
ment in Corn Planters
I claim, first, In combination with the rollers, $L$, the toothed curved
plates, , , arranged in, hinged frame as described.
Second, The cam, $F$, in combination with the valve, $E$, constructed Second, The cam, $\mathrm{F}, 111$
$35,546 .-\mathrm{J} . ~ L . ~ S a t e r, ~ o f ~ C i n c i n n a t i, ~ O h i o, ~ f o r ~ I m p r o v e m e n t ~$ in Planting Machines
${ }_{B}$ I claim the combination of the hollow perforated open cylinders, combined with the obliquely-perforated segmental blocks, D D, and
the cenducting tubes, E E, in the manner and for the purpose sub-
stantinlly as set forth.
35,547.-W. C. Shipherd, of Saratoga Springs, N. Y., for Improved Boot-Crimping Device :
I clamm the notches, ic, made respectively in the tree, E, and plates,
k , of the clamp, G, as slio wn, in combinat ion with the clamp for ned
of the nuts, p , screw rods, $\mathrm{p}^{\prime}$, and clasps, q , all arranged as shown for of the nuts, p , screw rods. $\mathrm{p}^{\prime}$, and clasps q , all arransed
the purp se of securing the crimped leather to the tree.
This invention consists in the employment of a boot-tree attached to a sliding frame, tn such a manner that it may be readily removed
therefrom when necessary, in connection with a crimping clamp and therefrom when necessary, in connection with a crimping clamp and appers and the uppers and legs of boots may be neatly crimped
and then secured to the tree with great facility.]
35,548.-J. N. Smith, of Jersey City, N. J., for Improvement in Repeating Firearms
I clain, first, Ejecting ine charge case laterally from the bore of a
gun, throngh an inpenting made in the side of the bore, in the manuer
substantially as described
gun, tantially as described.
sucond, The employmen
Second, The employment of the carrier, F, or its equivalent for
opening the gun to introduce the charge, substan tially as set torth,
chird, iclaim the arrangement of the feed wheels, $M$, and $N$, the same being connected by the spring, , , and forming a componnd
wheel forbringing forward the charge automatically and with pre. wheelf or bringin
cision, as specified
35,549.-J. N. Smith, of New York City, for Improvement in Coal-Oil Lamps:
stantially as and for the purpose speciited.
1 alse claim the combination of the llexible lifting cup, $L$, and disk,
 its equivalent, substantially as described and applied to the lamp, for
the purposes specified and this I claim whether arranged and applied the purposes specilied, and this I claim whether arranged and applied
as described, or in any other way combined with a lamp to produce
the efliects, and for the purposes set the eillects, and for the purposes set forth.
I alles caim the safety valves, FG G and $K$, applied to the oil pass.
ages, and operating substantialiy in the manner and for the purpeses described.
I alse claim the employment of a retort, for vaporizing the oil at the
burner of a lamp, substantially as and for the purpese specified.

 ranged so as to be cut ortf from, or
substantially as set forth.

Purpses set forth.
I alse clain the
I alse claim the chamber, $W$, arranged and $\bullet$ perating substantially
as and $f$ or the purpese specified.
I also clamm the radiating cone, $U$, constructed, arranged and opera-
ting substantially as and for the purposes set forth.
I also claim the small auxiliary burner, situated within the rarefying
chamber, V, substancially as and for the purposes specified. I also claim the double cone,, arranged and operating in combina-
tion with the manall burner, substantially in the manner and for the
purposes described
I alse claim the register plate, Z, for controlling the introduction of
the drait air and vaporsinto the rarefying and blaze chambers, $V$,
in combination therewith, substantially as and for the purpeses in combination therewith, substantially as and for the purposes
specified. 35,550.-B. F. Southgate, of
proved Sawing Machine
 arranged substantially as shown for giving the feed movement to the
cariages, I, as set forth. carriages, I, as set forth.
that class designed more especially for sawing snull sume that class designed more especially for sawing smill stuil, as for in-
stance fellies for wheels, scroll work and thelike. The object of the invention is to obtain a machine whichmay be used with either one ortwe saws in the same gate or sash, and be provided with a simple automatic feed mechanism, all being so arranged that both saws may as may be desired.
35,551.-James Spear, of Philadelphia, Pa., or ImproveI claim the coubrination of the openings, $b b^{\prime}$, at the bottom of the
or and the opening, a $a^{\prime}$, at the top of the frame when in connection with the mica and metal plate or wire gauze, constructed substantially
35,552.-Albert Taplin, of Providence, R. I., for Improved Burner for Coal Oil Lamps :
$\mathrm{B}_{\mathrm{B}}$.
35,553.-James Thierry, of Aurora, Ill., for Improvement in Machines for Turning of Grindstones
 equivalents, with a \&rindstone-turning machine se constructed that it
will operate by the joint effects of its contact with a grindstone in
motion

35,554.-G. M. Thomas, of New York City, for Improve
Lemon Squeezer: Lemon Squeezer
 respectively with bowls. B C, one fitting
the handles, substantially as described.
[This invention consists in construcling the squeezer of cast metal and of such form or in such a manner that a very clurable, ec॰ nomical
and light implement for the purpose is $\bullet$ btained, and $\bullet$ ne that may be manipulated or operated with greater facility than the ordinary kind in general use.]
35,555.-C. A. Wheelock, of Uxbridge, Mass., for Im proved Steam Trap :
I claim my improved steam trap, as made substantially as bef ore
described, that is to sav, not only with an abuument, E, and with the
valve and stem separate from nuch valve and stem separaite from such abutment, and movable with the
pipe as eplained, but with the valve so arranged as to be closed by pressure of the steam, and the ned by contranglon af to the pipe numder
circumstances, substantialy as above set forth. And, furthermore in connection therewith, I Ilaim my improved arrangement of the
valve sent or the same, and it exhaust passage relatively to the valve
stem and its sturtine bex, whereby he than stem and its sturfing box, whereby he latter is separated or the yalated
from the pressure of the steam of the expansion pipe, as specified. 35,556.-E. A. Wible, of Georgetown, Cal., for Improve-
ment in Preserving Grapes and other Fruit : I claim the packing of fruit sprinkled with powdered alum in layers,
between layers of dry sand, in air-tight boxes, substantially as
specitied. [This invention is stated by the inventor to be capable of preserving grapes in their natural state for a year. The claim describes its na-35,557.-G. G. Wolfe, of Troy, N. Y., for Improvement in Stoves:
I claim the com
I claim the combination of the partition, $F$, with the fire cylinder,
$35,558 .--W$. A. Wood, of Hoosick Falls, N. Y., for Improvement in Harvesters:
I claim, first, Uniting the platform
I claim, irst, Uniting the platform to the main frame by the bent
rod, a, and hinged rod, e, and their appliances, so that the platform
may be raised or. 1 owered on the main frame, substantially as de-
scribed. may be raised or . 0 owered on the main frame, substantially as de
scribed.
I also claim the plate, d, as forming a hinged support to the rod, $e$,
and a means of uniting the platorni and inger bar, substantially and a mea.
described.
I alse cla
 outside wheel supporter, E, and similar adjunting holes in the rod, c,
and a pin or key passing through them, substantially as set forth. 35,559.-A. J. Bowen (assignor to himself, and L. K. Tobacco Pipes : I claim the two tuhes or channels, a, and $b$, in the stem, in
nation with the bowl, $c$, and cup or receptacle, $d$, as set forth. 45,560.-J. E. Everett (assignor to W. Everett and Co., of Dedham, Mass., for Improved Wringing Machine: I claim the above described water-conducting attachment for clothes
wringers, consisting of the conducting bex with its longitudinal parwringers, consisting of the conducting box with its longitudinal par.
tition, $c$ and trongh, D, which may be moved to either side of the par-
tition, substantially as specified. tition, subs
35,561.-J. H. Fairchild (assignor to himself, and C. P.
Stimets), of Highgate, Vt., for Improved Sap for the Manufacture of Maple Sugar
I claim the combination of the cement and box for the specific pur
pose of catching sap or a sap bucket to be used in the manufacture of
maple sugar. maple sugar.
$35,562 .-\mathrm{H}$
35,562.-Hezekiah Conant (assignor to the Willimantic Inen Co.), of Willimantic, Conn., for Improvement in I claim, first, The combination of feeding, holding, punching, pastas described.
Second, I claim the combination, substantially as described, of feell Second, I claim the combination, substantially as described, of feen-
ing, withholding mechanimm or aparatus, and I claim these in combi-
nation with applying mechanism only substantially such as specified or naton with applying mechanism only substantiany such as specined or
in combination with punching out and applying mechanism, substan-
tially such as specified. tially such as specified.
Thirct, I clarim munchingout and applying mechanism substantially
such as described in combination with pasting mechanism, substansially as specified.
Fourth, I claim rocribed, in combination with punching and applying mechantsm,
substantially such as specified. Fubstantially such as specifed.
Fith, $I$ claim the combination of punching with applying mechan-
im each having a mode of
 such as specified
Seventhe I claim in combination a rack, a bolt and a frame provided
with proiections, all substantially such as specified and 0 perating as with proiections, all substantially such as specitied and operating as
described.
Eight, 1 claim in combination a carriage, a rack, and a bolt, sub.
stantially such as described, in combination with a frame having pro.
 Ninth, I claim in combination a rack, a carriage, and a bolt, and twe
pawls provide with proper mechanim, substantialy such as de-
scribed for causing then to act alternately, as specified. Tenth, I claim a feeding trough adjustable toivard and from a gate,
substantiall as described, in combination with a forked gate, whose
range of motion is adiustable, whereby the same holding mechanism range of motion is adjustable, whereby the same holding nechanism
may beadapted to hold and eenterarticles of dufferent size.
Eleventh. In combination with a trough or lower support for a spool or similar article, I clain two forked gates, cach having an indepen-
dent downward motion subtantially as speciiced, whereby articles of difierentdiameterat opposite ends may be more accurately held, when
acting in combnnation with proper mechanism for applying labels or
tickest thereon tickets thereon.
Tweelfth, ICliam in combination ticket presenting, punching, apply-
ing and pasting mechanism, all substantially such as described. 35,563.-George Cook, of Bristol Station, Ill., assignor to
himself and William Scarlett, of Aurora, Ill., for Improvement in Harrows:
I claim, ,irst, Inclining the teeih of a harrow at the will of the ope.
rator, so as to discharge the obstructions accumalated therein, and rerator, so as to discharge the their positions for workiving, without lifting the har-
storn the same
row, all substantially in the manner set forth. row, all substantially in the manner set forth.
Second, The arrangement of the teeth $A$, beams $123 \& c$. , eyes $\mathrm{C}^{\prime} \mathrm{C}^{\prime}$
and $\mathbf{D} \mathrm{D}^{\prime}$, and any sutable force for extending and contracting the Thtr, The empleyment of the lever, F, and links, H , as arranged
relatively to the beam, $123 \& \mathrm{c}$. and to the cyes, C C $\mathrm{C}^{\prime}$ and $\mathrm{D}^{\prime} \mathrm{D}^{\prime}$, and
links, cand d, as to operate as set forth.
 Fifth, I claim connecting the lever, $F$, and the drag link, B, to a
point, E forward of and lower than the center of the front beam 1 , substantiallially as and for the purpose set forth when the parts are
arranged relatively to the several ol her cross beams, $23, \&$., and their Sixth, I clain securing the lever, F, in diflerent positions by means
of he notches, $\mathrm{i} i{ }^{\prime}$, in the posts I , in combination with the other parts, substantially as, rerpresented, for the combination with the other parts,
ly in the several positions desired for working in various soils. firm. 35,564.-J. R. Hyde (assignor to Charles Eddy \& Co.), of Troy, N. Y., for Improvement in Stoves.
Thelaim the suspending of the said boiler, D, at the apper corners
thereof next adionining the stove, by means of the brackets, b b, in com.
bination withe traces, c , proiecting from the said boiler, D, int
the recess, the recess, a, of brackets, b b, so that, by the weight of the water in the
said boiier, it will be brount inte close coniunction to and with the
stove, husconnected withsaid
set forth. Campbell \& Gage), of Waterford, N. Y., for Improvement in Burrs for Knitting:
claim a rotary knitting burr, having removable wings, $A$, held sta.
tionary within oblique radial slots, b, in a huh, c , by means of detacha
ble rings or disks,
of the wings, substantiangaged with and an set forth.
35,566.-Jam.es McNamee (assignor to himself and H. F. Steckel), of Easton, Pa., for Improvement in Register ooms
I ciaim the box, $A$, provided with the numbererl compartments,, ,
, , also placed in the box. $A$, and arranged with the compartments, $B$,
 passages are used in connection with the tumbered compartments, B ,
pilting or moving bottom, $D^{\prime}$, and drawer, E, for the purpose set forth.
35,567.-Stuart Perry, of Newport, N. Y., assignor to C.
H. A. Carter, of New York City, for Jmprovement in Horse Pewers :
I claim, first, supporting the end of the shaft, $B$, in or near the cen
ter nt the main drive wheel, E , for the purpose substantially as de
scribed.
scribed. I alse claim, in combination with a main drive shaft that has upon I alse claim, in combination with a main drive shaft that has upon
its outer end a whel that may run over an uneven track, the hanging
of the opposite ead in a recking or piveted box, to yield thereto, subI alse claim, in combination with a main drive wheel, E, and the bevel pinion, g, the compound pinion, F, composed partially of square
and nartially of beveled teeth, substantially as and for the purpose set
forth.
35,568-George Potts (assignor to himself, Joseph and
William and A. and J. R. Potts), of Yocumtown, Pa. for Improved Washing Machine
I claim, the combination and arrangement of the vat, $A$, links, $G$ G $G$,
rock shat, I, and levers, E E, firmly or rigidly fastened to the rubber,
D, substantially as described, for the purposes set fort
35,569 .-J. M. Sanborn, of Hardwick, assignor to him self and E. M. Gifford, of Wolcott, Vt., for Improved Portable Milk Cooler
I claim the new article of manufacture described, adapted to the
filtering of milk or other liquid through water so as to change its temperature, and to be readily applied to and removed from an ordinary
35,570.-Rufus Sibley (assignor to Samuel Mowry), of Greenville, Conn., for Press for Photographs:
I claim, in combination with the bed and rails, the traveling truck or
carriage, and the ponishing roll, operating in connection therewith,
substantially in the manner and for the purp se described.
35,571.-J. E. Smith (assignor to himself and C. T. and J. Electro-Magnetic Telegraphs : City, for Improvement in claim, the combination of electro-ma
curt substantially as described, whereby the vibrating armature teve of the first or receiving magnet is made to discharge or nentralize the eseape or abnormal curr ents fiowing throngh the second or working
magnets whene thain circuit is open ed in the operation of telegraph
ing, substantialy as set torth ntially as set forth.
35,572.-R. M. Treat (assignor to himself and G.H. Daley), I claim, first, The rigid bars, $\mathrm{d} \boldsymbol{d}$, or their equivalent, extending out rom the back of the turning axle, A a b beyond the rear of the cir cumference of the wheels, for supporting a iong raker with shor
eeth, in the manneer and for the purpuse as describe.
Second, The swinging, adjustable ciearer or discharger, $G$, arranged
scribed.
Third, The raker, $F$, in combination with the curved eccentric rods, g. and discharger or clearer, G, constructed and operating substan

$35,573-$ W. H. Willard (assignor to Sarah E. Willard), of Cleveland, Ohio, for improved Apparatus for A

35,574.-Smith Groom, of Troy, N. Y.,for Improvement in Stoves :
I claim the introduction of highly-heated steam inte the fire cham.
ber, by means of annular chambers or pipes surronnding the said fire cer, bereathe inside thereof, and having thercin apertures throngh
chamber nn thin such steam or hydrogen is admitted into the fire around the
which such outside thereof, whereby combustion is greatly ui
economized, substantially as described and set forth.
35,575.-James McCholland, of Reading, Pa., for Improve-
I claim the chamber, A, with the brancll, c., communicating with the
boiler and branch, bor the water, in combination with the nozzle, B, for the steam; 'the whole bel
as and tor the purpese set forth.
design.
1,604.-G. L. Kelty, of New York City, Design for Tassel
Tops.

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