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Pamphlets containing the Patent Laws and full particulars of the mode of applying for Letters Patent, specifying size of model required, and much other information useful to inventors, may be had gratis by addressing MUNN \& CO., Publishers of the Scientific American, New York.
55,799.-Mode of cutting Boots.-John Adams, Kolinmo, Ind.
I claim as a new article of manufacture, a boot produced as
follows, to wit, by cutting the foot and le, portion ouc of a sinfollows, to wit, by cutting the foot and leg portion ouc of a sin-
glepiece of leathicr, the counter or lici piece being cft outt
and then constructinig the uppers of the boot fromsinid foot and
 scam to the rfont edocs of the counter and frumthence liown to
the shank of the hoot, said horizontal and vertical side scams serving torasten the separate outside connter-picece of leather
over the onening whicharas left in entting rtic foot and leg of
the boot, all substantially as and for the purpose described.
55,800.-Grain Separator and Cleaner.-Wil-
liam M. Arnall, Sperryville, Va., assignor to him-
self and W. II. Brownell, New York C'ity:

arr, E, torether with the aldjustanle lrosthes, a, a, a, and divid-
ing board, $P$, substantially as and for the purpose herein set
forth.
forth, , 2 , throat, $G$, with its gauge-boarch, f, rollers, F, cylinder.
E, and fan, $D$, arranged and used as and for the purpose speci-
fied.
55,801.-Device to prevent Boiler Explosions. - Alfred $\Lambda$ rnold, T'enaply, N. J.

I claim, st, The morle of preventing stcam boilcr explosions,
sulstantilly as hercin set forth. 2.l, The construction and arrangement of the devices neces-
sary to carry the mode into operatioit, substantially as de-55,802.-Egg-beater.-Frederick Ashley, New York City
I claim the grooved or screw threaded slide or slecve, E, in
combination with the plain shart, A, having a fixed stud or pin a, and a beater, $B$, arrangedtorcther and © perating as and for
55,803.-Water Wieel.-Sainuel W. $\Lambda$ yres, Monticello, Ind.
In comblination with the spiral scroll, A, 1 claim the double
whecl, $\mathrm{B}, \mathrm{C}$, when so arranged that the water shall be discharg. Whecl, B, when wo arranged that the water shan be discharg-
ed from the scollt through the uppr section, towards the ccn-
ter, ter, and thence passing into the lower sectionl, dischargred from
the center through the periphery, substantially in the manner

55,804.-Horse Rake.-II. A. Bailey and A. R. Burclick, Racine, Wis.
zrooves, i, and retainced on the rate- provicled withlips, the and
 lonscly on the axle, A, and operitedl ly means of levers hy the
driver from his scat, (.for the purpose of automatically rains
the rake to discharge its load, substantially as shown and dethe rake to
scribed.
55,805.-Roof of Buildings.-William W. Beach, New York City
I chain, ist, The use of mica or mincral isinglass in shects or and ornamental, substantially in the manner and for the purpoye hercin set forth.
$2: 1$, Ornamenting
nit
the mica, sulstantially as set forth the plates or thicescribed. with mexible cement, substantially as set forth thercing. with fexibe cement, substinntialy as set forth hercin.
4th, The combinition of micia with wood, slate, or other
cquivalentsubstances, substantially in the mauncr and for the cshercin set forth.
55,806.-LaMI'-Jacob II. Beidler, Lincoln, Ill. I claim, 1st, The method here in described of creating an as.
cending current or air to teed the nime, by means of stam gencrated by the caloric emanating fiom the inuminating flame
 the purpose described. 55,807.-Grater and Egg-beater.-William A. Bemis, Spencer, Mass.
I cin im, 1st, The combination with the lower hale R, of the
body of the beater, of the rerno value frame, D, provided with
the cutting wircs, a, substantiully the cutting wires, a, substantially as and for bine purposes set ser
forth. forth. In comhination with the egg-beater, I claim the grater
2d, In,
moving in quides on the bory of the e. eg-heiter, the whole be-
 pus ennetrncted and arrangy
55.809.-Machine for firaming Matches.-Jacob Bentz, Brookiyn, N. Y.
I claill, 1st, In comb thation with the gopperved hed and hopsubstantially as described.
dut, The constuction of the grooved bed in two parts; the
front part heing hinged to the rear lixed part for the purpose of fring surung down below the plane of the fixed part when re-
hitired to remov broken splints, slivers, or other obstructions durct o remov broken sphints, slivers, or other obstructions
sultiantial as describerl
3:t in compination wit the grooved hed, I chaim the gnides 4th. In combination wibl the plnn.eer frame and the firont slifing frame whichapp.rits the splint frame, I caim the rock shaft and system of paw.s and levers, whereby the down-tier
motion of the siding frame is eommunicated thereto by tic
bact motion of the plunger frame.

55,809.-Stump Extractor.-John W. Blodgett, Plymouth, Ind.:
Ic laim, 1st, The comhination and arrangement of the posts,
C. and foot-boards, E iud N , substantially as and for the pur-
 Jerer. Kin in mhination with whecels, A, foot.
sulustaulially as and for the purposes set forth.
55,810.-Utilizing Steam.-John M. Brosius, Liberty, Va.
I claim the arangement, with a stationary depot or water
atilion cussin, or hie lueomotive boiler, substantully in the hanater and for the pur'pose described.
5j,811.-Cotton-seed Planter.-Frederick H. Brown, Chicago, Ill.:
Incian, ist, inn a cotion-sced, ppanter the combination of the ,
 ranged and operating substautially as speciticd and shown and
for ine purposes setforth.
 and operatiluy as and for the purposes described
55,812 . - Mode of constructing Vacuum Vessels for Eivaporating, etc.-Duncan Bruce, Rossville, N. Y.
I claim the method, substantially as herein described, of strensthen ing and
purposes set forth.
5j,813.-Hammer for bending Couplings.-John T. Bruen, New York City

 sucecsive operationg of the hanuner, aplied, arrantyed, and



55,814.-Lock.-Henry and Samuel W. Budd, Phil$\underset{\text { I cham, }}{\text { adelphia, }}$
$\frac{\mathrm{I}}{\mathrm{I}}$ clam, list, The bolt, B, and its spring, d , in combination with the slididg block, F, Find plate, b, or its eqnivilent, ille
whole being constructed and operating substantially as and for

 .
50,815 --Brusif for Boiler Flues.-Charles II. Busi, Fall Riven, Mass.
 eratinst as hercin set fiorthand described.
5ju,816. - Ralliead Watele-elevatore-William II. Butler, Chicagn, Ill.
 densation of steam, or coited with such resistant oun one on
both sides, substautially as aescribed and for the purpose mentinncd. claim in combination witit the follower and steam pipe
the rubber packing, I, is described. 55,817.-Step-laddeli.--E. P if Capron, Spring.

 pin, i, arranced to ororiate in eombini nation with he ladders, A 55,818.-Treating Orees.-Charles F. Carpenter, Louisvi!le, Ky
I chim the mode of using stcam of any temperature for the

 stantially the same.
55,819.-Water-indicator for Steam Genera , Tons. - Franklin Chalfant, Lancaster. Pa. I claim, Ist, The vibrating conlumn or cylinder, F, in con-
nction with a stcam boiler, A., whicu cmployed for the purpose spociticed. claim the soapstone disks, K, when appliced substan-
tially in the manner and for the purpose set forth. 55 820.-Ice-cream Fireezer.-John R. Champlin, Laconia, N. H. :

 ditits. T and L, as and for the purposeset rorth
 suhnetantially as (lescriliect.

 set forth.
55,821.-Pump--Robert Cochran, Morrison, Ill.

55,822.-Pump for Deep Wells.-Robert Cornelius, Philadelphia, Pa.:
Lelaim the combination or an outcr case with apertnes, an
inctron
int
55,823.-Door-beli, and Burglar-alarm.-Elliot H. Crane, luarr Dak, Mich.


 notched base-plate, c, swining pawior arrn, T, and thinh hal

55,824.-Horse Hay-fork.-Thomas C. Craven Albany, N. Y
I claim, ist, applying a hook or barb, h, to the hollow point ot ot
a harpoon liay-tork, so thit this hinok shan work looselv willin Kial dinint, and propected therefroul by the depression ou of a rou,

which hre adapted to serve as a locking device, substantially ats
deecribed.


55,825.-Churn.-F. J. Crissey, Jepslures, Via I claim the arrangenicict and counhination of the center
diasher with ty.whec at top and propeling oord on the shatt, that the shaft lis onerated swiftly with in in ward and tiverse ict
tion, as herein described and for purpoces set torth.
55,826. - Cultivator. - John. Custer, Sandusky,

 55, 827-Marine Compass.-Samuel Custer, Salem,
Va.:

 apointer plated
itt
3d.wo hee ales.
and way contric with the nain compass-car $\mathbf{l}$ or its fiame, tor securing a
55,828 - - Roller-feed for Caiding and Picking Maciinses.-James Dempster, Nangatuck, Comn.:

 marchine, substantially as described and for the purposes se
55,829 .-Har-rack for Wagons.-Danie! Dennett, Buxton, Me.
I claim the strectchers, $\mathrm{b}, \mathrm{b}, \mathrm{b}, \mathrm{b}$, cut in two at d , d , in the man
ner and for the purpooses specitied.
50,830.-Car for transporting Petronevm.J. Densmore, Meadville, Pa., and G. W. N. Yost, Corry. Pa.
We claim the comhination of the two-tank car with the one

 chanical construct ion sulstantially the same and which will
produce the same results.

55,831. - Car for transporting Petroideum. J. Densmore, Meadville, Pa., and (. W. N. Yost, Corry, Pa




55,832. - Car for transporting Peitrolevm.James Densmore, Meadville, Pa., and Amos Dens more and G. W. N. Yost, Corry, Pa.
weo claim, 1st, The one tank, B, square or onlong square of way car, A, by means ot the cloats, E, and the liont






 same, and wuich will produce the same results.
55,833.-Maciing for planing Moldings.Thomas Dickinson, Newark, N. J.


55,834.-Apparatus formaiging Papper-fuler, for

- bleaching and for other l'uhioses.-John W. Dixon, Philadelphia, Pa.:

B, the diam, st, The compination of the digester, $\Lambda$, the man-lole

55,83:j-Apparatus for making Paper-hujephon Wood, Straw, and other Materials.-John W. I)ixon, Philade! phia, Pa.
 while being made to circulate by the pump.
55,836. - Process of making Paper-puip fiom Wood, Sthaw, and other Materials.-John W. Dixon, I'hiladelphia, Pa.

 snlsstances by circuating a mighy-heated solution of atumin
ate ot soda through the mass to be pulped, substantially as dc
55,837.-Harvester.-John A. Dodge, Auburn,








55,838.-Pocket-book Protector.--Alonzo Drum mond, Newark, N. J.
 B, with the lever, D, and piece, C, camping, $c^{\prime}$, ${ }^{\prime}$, in the manner
 the purpose described. clasp or hinge, E, slot, e, and knob, $\mathrm{d}^{\prime}$, constructed and oper atius substantiality as set forth.
4th, The spur, F , dog, G, , sldd, f , lever, D , and knob , $\mathrm{g}^{\prime \prime}$, in
combination for operating the spur, substantilly as set forth. 55,839.-LANTERN.-A. M. Duburn, Chicagro, Ill. :

55,840.-Corn Harvester.-Abraham Dyson and Willian N. Macqueen, St. Louis, Mo.
I claim, , 1st, The rotary cutters. C', arranged at the front end
of the machine, with the plates, $U$, gearing, and the racks and pinion, substantially as slown and described, to admit or the





55,841.-Brick Machine.-Josiah S. Elliott, East Boston, Mass.

解

 arms, c, c, and toothed segment, J. on shart. I, to to thed seg, parpose sepecianed. arranged and operated substantially as shown
and described, for insuring the proper filling of the carrier, as
and set frithe sweep, V, arranged and apphed to operate substan-
tialty Tin the manner as and for the purpose set torth. 55,842. - Dress-elevator. - Henry Essex, West Haverstraw, N. Y., and Job Johnson, Brooklyn, $\underset{\text { We }}{ } \mathrm{Y}$.

55.843.- Вroom Heap.-S. S. Evans, El Paso, Ill. : I. claiim an improved broon, forned by combining the ring, and with the chass, D, and corn, C, substantially as descrived
55,844.-Hydraulic Spindle and Turning Apparatus for Draw-bridges.-Philip - L. Fox and George P. Herthel, Jr., St. Louis, Mo.:
 escribedand shown.

 s, E, and the pualp, F, all acting substantially as and or the

55,845.-Mode of making Tin Fruit Cans.-John
M. Francis, Walds, Ohio

55,846.-Table-leaf Support.-George Fyfe, Ottawa, III.:


55,847.-Feeding-wiieel for Sewing Maciiness, -Anton Galleth, New York City
 combined anle
55,848.-Rolier and Corn-stalk Cutter.Roland K. Gaskill, Mendota, Ill.
The claim, seing , he combination or the roller, $\mathbf{A}$, and knife, ${ }^{\text {II }}$, he knire shallifill with the y for ward mo vement of the roller,



55,849.-Bnby-jumper.-William Gibson, Fort Wayne, lnd.

 post which will rotate where it is erected between two fixed ob.
55,850.-Hand Corn Planter.-William Gilbert, l3ardstown, Ky .
I claim the hand seed planter, constructed, arranged, and op-
eratinr substantially in the nuanner desclibed for the purpose
set forth.
55,851.-Fruit Basket.-Isaac C. Gleason, Middletown, Conn.



55,852 .-Lacing for Boots and Shoes.-Charles Goodyear, Jr., New York City:




piece of wire, the ends of which are bent into eyes standing a
right angles to each other substantially as hereins et 3id In combination with eyelets constructed sustantially
ns
herein described, I claim the employment of rivets traversing one of the eyes of the lacer and either or hoth thicknesses of ath, The employment in cominination with lacers and rivets,
as heretofore described, of a folled leather welt, binding, or
 sherein shown and described.

55,853.-Lacing for Boots and Shoes.-Charles Goodyear, Jr., New York City
Yyclam, ist, The method herein described of appying lacins
 aidrings, as and for the purposes hereinshown and described
 the edge or to the face of the welt or unper, at right angles the purposes hereindescribed.
3d, in combination with ring for forming the lacing eyes as described and for the purpose of holding the same in their
proper positions a set
Tht



55,854.-Bjckle.-J. F. J. Gunning and Isaac T. Meyer, New York City:
We clam a buchke made of one piece of metal, wire, or other jaws, $\mathrm{b}, \mathrm{c}$, substantially as and for the purposes set forth. Liquids.-C. H. Hall, New York City
 or thepurposese fernith. .
 ther manner whereby a scraper is used for the purpose speci-

 steam is zeneratcl hy nassing the vapors of oilor or hier liiduills,
being distiled, through a vessel containing waters, or vice




 6inh, Thereceived. L, in combination with tubular condenger,

 fron' residuch, or any on herequivalent tecenk, wherecty a re,
fort or still is freed of its residuun by the force of a jet of
 yy treating it with steam and water, sunstantially in the man-
ner described and for the purpose set forih.
55,856. - Broom-head. - Martin Haneline, Clear Creek, Ind.
I clas m, 1st, The wooden fra me, A, and the metallic plates $B$,
co nstructed and cointiued su bstantiall y as described and for


55,857.-Butter-worker.-William I. Hart, Med-

 And in conncection with such a c cembination of parts, I claim
the heater surreunding the churn, essentially as set forth. 55,858.-Boot or Siroe.-Gilbert Hawkes, Lynn, Mass.
I claim, 1 st. $A n$ inner sole, A, formed of a textile fabric, to be
used cither with or withouta a siffening preparation, as set iorth


 by machinery of an inner sole of texile material, sulustantially
55,859.-Neck-tie Fastening.-John G. Hitchcock, New York City:



55,s60.-Maciinne for cutting Fly-nets.-Austin D. Hoffman, Detroit, Mich. :

I clain, 1st, The combination of two or more puillotine ing the leither which numovect in a direction transverse to the

 yerticarly movigg
leather therefrom.
55,861.-Maciine for Fine-cutting Tobacco. Elijah Iolmes, Lynn, Mass.:

55,862.-Lamp cleaner.-Benjamin F. Horn, Bos ton, Mass.
I Claim my iniproved lamp chimney-cleaner as made with the
oop-sping,


55,863.-Button-hole Sewing Machine.-James
A. and Henry A. House, Bridgeport, Conn. :
we claim, st, Working a button-hole automatically ana on
hoth side without turning the cloth bythe devices, substan
tianly

 paw, and jog-bar, substantuany as for the purpose bit th, The combination of the scroll cam ratchet. whele, the
sweep bent-lever, and jog-bar, to space the stiching, sulbstan






 pate, with the a a justable clamp, when so arranged that hoth
shat move to methe
as set forth.
55,864.-Button-hole Sewing Machine.-James A. and Henry A. House, Bridgeport, Conn.
below the bed-plate of sewing nuachinies, substantialilly as and 2d, sewing hutton-holes automatically, piving the goods a


 thhe The combination of a jog-bar, a pawl-lever, and toothed
wheel with the cloth-holder, substantially as and for the pur
 ing beam, L, with the eet forth.
and for the substantially in the manner
6th and for the purpose set forth al jnstable slide with the feed-de.
bth, The combination ofran and
vice and cloth-holder, substantially in the manner and tor thie
 pose sef froth.



55,865.-Button-hole Sewing Maciine.-James A. and Henry A. House, Bridgeport, Conn.

We claim. 1st 0perating the bnton-10le mechanism from the
 3.t, The revolvabie, reciprocating feeding-plate, combined
with the vilrating vedplate, substantially as and orthe pur-
pose described
 ly as and for the purpose set for thi ghe the center-plate, the block-

 the or less than a right angle to the selvage, or parallel there


 plate hy spring half-nuts, su he fecing-serew with the bed-plate
setorth
11th, The combination of the and adjustable plate on the switch cilluplate, substantially as
and ror the purpose set forth


 nstable lever and stitching plate, sultstantially as and for tue

 for the

55,866.-SEWing-machine Clamp.-James A. and Henry A. House, Bridgeport, Conn.

 55,867.-Knife and Scissors Simarpenel.-M. V. B. Howe, Ashburnham, Mass.

E, andim the combination of holder, A, having angular notches,
E. 55,868.-Truss.-N. W. Hubbard, Fulton City, Ill.
 with a main springor
ly as herein described.
55,869.-Puncturing Maciinne for making Pat
terns.-Samuel Huffman, Carthage. Ill.
I claim a machine, when so constructrd, with a puncturing
pointin combination with a spring, and when the pactine en tire is movalle when in use. as is a prin or pencilt raciny-point
sulstantially as herein described and forthe purpesil hereen set orth
55,870.-Car Coupling.-Hiram Hughes, Savona N. Y.

Iclaim the combination of the latch, B, with its catch, C , and
pendant, d , of the form shown, na ine pivotell bar. D oprerating incompinntion with h fini
and or the purpose hertinspecified.
55,871.-Fertilizer.-Joseph and Abraham Hursh, Phiadelphia, Pa.:
I Clinim the application nf ochre as a fertilizer, in cither a raw
55,872.-Grinding Mill.-John Hutchinson, Three Rivers, Micl.
I caim the slip coupling in comhination with the central
glaft having tirrers and lue hopper, urrunged and operating as
described.

55,873.-W Wsiling Machine.-Andrew Irion, Fem me Osage, Mo. Ante-dated May 14, 1866 : I claim the combination of the wheels, B, C, C', and crank-
shat, D, with the rubbers, $F^{\prime}$, and box, $A$, as and for the purpose
sit torth Rit forth.
55,874.-Fence.-Theodore E. King, Painesville Ohio:
 2, and herel interticking each other consecutively, for the pur
laping or
pose set forth. pose set forth.
2, The plate as shown in Figs. 3 and 4 , and constructed as
specified, the same consisting of the addition to the foregoing


 Srojecting plandoperating as nercin sct iorth,
 pose specinced.
with, The arljustable eatch, as slown in Figs. 14 and 15 , provided
acre woblt, W, and projecting stuct, X in combination with the oncening, $Y$, of the post, and constructed and arringed
as and for the purpose set forth,

55,875.-Water Wheel.-Louis Kratzer, Balti more, Md. :
, arrangement of the wheels, A, B and C. so as to make use of the whole body of water in its descent to the level
below, andits action in passing off, as herein set forth and de-
scribed. 55,876.-Farm Gate.-Joel Lee, Galesburg, Ill. : I claim, 1st, The friction rollers, $\mathrm{A}, \mathrm{A}$, when used as set forth and described.
the, Tho arrangement of rollers, $A, A$, wi th the roller, $B$, and
the roller supt, $C$, all arranged as set forth and described.
55, $8^{\prime \prime} 7$.—Harvester Rake.-Edward J. Leyburn, Lexington, Va.:
Iclaim, ist, Combining a rake with a revolving reel in such
manner that the ralise sliallil receive a rectilinear movement across the piatform at every rcvolution of the reel, and with-
out stopping the movemut of the later, substantially as de-
scribed. scribed. Supporting and guiding a rake-staff, D, by means of a re-
dolviny rect in such manner that the rake sla
vell cevolve with thereclafter the termination of each raking stiokc, and then mearly so to the line of dranent, substantially as described.
nd
3d, supporting and guidine the rake-staft y menns of a slot.




 ing and vibrating, substantially as licrein desc ribed.
Gthi Incombination witha revolving reel and vibratlng rake,
I clalm pivoting the rake to its staff, substantially as described. Thh, Providing for moving the rake to the outer end of the
recl previousty to the action oo the fiedearm, bi, upon the
standing giain, sutbstantially as described.
 structed and contro
purpose described.
55,878 - CAN-OPENER.-O. J. Livermore, assignor to himself and Clark, Lawyer \& Co., Worcester, Mass.:
I claim a can-opener, constructed substantially as above de-
scribed.
55,879.-Tag or Label for Express Companies, etc.-E. A. Locke and L. IIeüser, Boston, Mass. : and b, when unt the by the folding of or the curc ent of a over one and with
b, and perforated through the refniorcement of the folds for reception of the lanand.
Also, in combination with a tag and band a projecting un. clinched eyelet secured to the band by the confinement of its
head or flanch betweenthe adjacent surfaces of the parts eye.
loted torether, to secure the tar to the band the evelet cted together, to secure the tar to the band, the eyelet being
chusheldin positionfor application and securement of the opthus held in positionfor application and securem.
55,880. - Burning-fluid. - David Mansfield, Oshkosh, Wis.
I claim a burning-fluid for illuminating purposes which is
composed of the several ingredicnts mixed together in about the propnitions herein mentioned
55,881. Carding Maciine.-James McDonald, Detroit, Mich.
I claim, 1 st, The useof a thin shell in the place of the thick and
wooden one herct of tion with the roller for the purpose of taking the wool from the
roll-dofler at once without comb-crank or intermediate roller said shell being set closer up to the roller than here tofore, and
made adjustable nearer to or far from the roller at will. made adjustable nearer to or far from the roliner at will.
I also claim, as a component part of sid improvent above
described, the insertion of narrow bits of wool-cards (the teeth described, the insertion of narrow bits of wool-cards (the teeth
of which should be terife sliorter than and set contrari wise to,
the ordinary card-tecth of the roll-doffer) in the spaces of the or whichsinary card-teeth of the ropl-dorfert in the spaces of the
the ordinder heretof ore left suitable and unfurnishe with cards
roll or teeth, and the change above prescribed in the size of the pul.
leys, by means of which pulleys the band of the machine turns
the roller and roll-doffer.

55,882.-Gate for Forebays.-J. J, Meeker and Levi Cartright, Columbia, Pa. :
We claim the flexible gate, B , constructed and operating sub
stautially as and for the purposes set forth.
55,883.-Fence.-S. H. Mitchell, El Paso, Ill. : I claim, st, The stakes, B, D, connected by bolts, , in combithe upper ens or the stakes, B, are conncetcd by bolts, $E$, sub.
stantiant as and for the purpose specince.
I also claim the covering of the notched ends of the slats, $F$, of I also claim the covering of the notched ends of the slats, F, of
the pancls with sheet-metal or strap-iron, c, substantially as and Ifurther claim the securing of the panels so as to prevent a
vertical movement or the same by means of a screw, b, or its vertical movement ot the same by means of a screp, b, or its
equivalent, applied as shown, when used in combination with
the notched ends of the slats. F, of the panels, substantially as described.
55,884.-Well-boring Apparatus.-David Morris, Bartlett, Ohio I claim, , ,st, A Alrill having two or more winss, w, with their
cutting edges constructed and arranged as herciu described and
 purpe sexplained of the circular frame, A, coggedrim, $C$,


and adjustable block, $L$, the whole being arranged to operate
in the manner and for the purpose set forth.
55,885.-Flour Packer.-John Musser, Frizellburg, Md.:
I claim the movable evers, E, operating on the vertical stampers. G, with the upright revolving cyllnder, the when ar-
ranged, combined, and operated as herein described and for the
purpose set forth. purpose set forth
55,886. - Apparatus for agitating and heating Substances.-George Nebeker Wimington
 with a steam boiler, substantially as aud for the purpose de-
scribed.
55,887.--Sugatr-Mold,-Frederick Nishrfitz, Wil liamsbure, N. Y.:

 two pars nf find by meaus of a wrap piey of who, sudetau
 to preved the writ
tially as hescribed.
.55,888.-Sugar-mold Tip.-Frederick Nishwitz, Williamsburg, N. Y
I claim, 1 st A separate and separable tip for sugar-molds constructed and operating substantially as describen.
2d, Clamping the bodiv of the mold bet Ween an inner metallic 55,889.-Eye-water.-Michael Noll, New York City:
I claim the herein-described eye-water, composed of sulphate
of zinc and the white of anl egg dissolved in distilled water substantially as set forth.
55,890.-Mill Sieve.-E. D. Norton, Bradford, Pa. formed of an improved screen or upper sieve for a fan-mill their end sto the side. bars of the frame. A, of the sieve, and so the reare e of of the adjacent stifip and that the concavities, b?
of ench strpp shanl be in the same vertical plane with the con-
vexities, b2, of the adjacent strips, substantially as herein de. vexities, b2, of the adjacent strips, sub
scribed and for the purposes set forth.
 Md.




## 55,892.-Carbon Battery Connection.-Aaron

 S. Ogden, Newark, N. J.:I claim surrounding the junction of the Wire, A, with the
platina, and portion of the anid wire, A. with the covering. B,
or its enuivalent also the combination of the car bon wit or its e equivalent ; also the combination of the carbou with the the
said covering, $B$, and platina, $D$, substantially as described and said covering, $B$, and platin
for the purposes set forth.
55,893.-MyDRAT.-Irmes Old, Pittsburg, Pa. I claim, 1at, Connecting the operative partio of the hydrat to






 55,894.-Lifter for Stove-covers and Culinary Vessels.-Joseph Old, Reading, Pa. I claim the described universal lifter, constructed with hooks, other being prol onged iuto a handle, ${ }^{\text {, , In the than mer and for }}$ mane
the purpose specified, as a new article of manufacturc in design and purgure.
and
55,895.-Drill Coupling.-Edward E. and Charles T. Packer, Philadelphia, Pa.

We claim a section having an external screw-thread and a re-
cess, in which is apring spine or father, in combination with a sectionnaving a socket with an internal screw-thread and a
slot adapted for the reception of the end of the said spline or slot adapted for the reception of the end of the said spline or
feather, the whole being constructed substantially as and for the purpose specified.
55,896.-Sheep-rack and Holder.-Enos Page, Streetsborough, Ohio:
Ic laim the adjustable sides, B, B, lips, b', b, and grooves, a,
artin combination with the cleat, D, and buttons, D, arranged
as and for the purpose set forth as and for the purpose set forth.
55,897. - Book-Holder. - Owen B. Parker, Woodville, Mass.
I claim the combination as well as the -arrangement of the tivo
bars, A, B , their lips, a, a, b, b, and leaf-holders or arms, $\mathrm{D}, \mathrm{D}$,
with the elastic ban $\mathrm{s}, \mathrm{C}, \mathrm{C}$,
I also claim the conbination and arrangement of the brace-hole
and loop el stapo or 1 bbon, with the two bars, A, E, and theirlips, I, also , the elastic connections, C, C, and arma, $D$, $D$.

 $\mathrm{D}, \mathrm{D}$, the hars, $\mathrm{A}, \mathrm{B}$, their lips, a, a, $\mathrm{b}, \mathrm{b}$, and elastic $\mathbf{c}$
C , C , the whole being as and for the purpose set forth.
55,898.-Medicine to cure Cholera, etc.-Anna E. Parrott, Norfolk, Va.

I claim the medicine prepared substantially as herein de-
scribed.
55,899. - Corn-sheller and Bean-thrasher.
Benjn. P. Pendexter, Mechanic's Falls, Me.
cts, m, and hooks, n, on the outside, with the toothed bcater, $D$,

being constructed, connected and
for the pur-poses herein described.

55,900. - Water-closet. - Barton Pickering, MilIon, Ohio:
I claim, st, The arrangement of the vessel, A, seat, B, and valve,
cthe whole constructed substantially as described and for the purposes set forth.
B , in Th vearrangement of the gring, f , and bar, p , to hold the seant posin averticat position, and the valve, C, in a ne arly horizontal
nosition, substantially as described and fort he purposes glecificd. 901 -_Skate.-J. M. Plimpton, New York City I claim, 1st, The construction of the plates, $B$, and hangers, $\mathbf{C}$,
arranged and applied to the stock or foot-stand, to operate in the manner substantially as and or the purnose set forth.
$2 d$, The key
F provided with the slots,, , 1 , and the button, $G$,
 3d, The sirings, p, applied to the screws, n, which secure the hangers, c, to the plates, 1, for the p, prpose of preventing vertical
or upward and downward phay of the hangers. and controlling the or upward and downward play of the hangers. and controling the
turning titing, or ranting of the stok or foot-stand as set forth.
4th, The clamps, H , composed of two parts, g i, for holding the reversible runners, I.
sth, The reversible ruincrs, arranged substantially as shown, for the purpose specifie
55,902.-Hgrse Hat-fork.-Isaac T. Price, Lees ville, Ohio:
I claim, st, 'The combination and arrangement of link, $\mathbf{C}$, hook,
H , catch, $G$, and trisger, $\ell$, substantially as and for the purpose
 and prongs, $p$.
55,903.-Locomotive Lamp.-James Radley, New York City :
I claim the combination of the lamp with the oil-tank by means
of one or more small oiltubes incased with a non-conductor of caloric, arranged and constructed in the manner substantially as
described. 55,904. - Engine Head-Light. - James Radley New York City
I claim, 151 , The foundation piece, with its recess and covering pranged and constructed that the inclots may tue conveniently braz ranged and constructed that the parts may be conveniently brazed
together iustead of being soldered thereby rendlering the lanp
more safe and permanent, substantially as licrein shown and described. 2d, The wiok-pinion and its spindle, in combination with the re-
movable stuffing-box, arranged and coustructed substantially as described
55,905.-Mowing Machine.-Amos Rank, Salem, Ohio:
 and below, the shatt, $b$, substantially in the manner and for the purd, The combination of the hanger, E, constructed with the open
stirrup, EV, and the rear hanger, F , all constructed and arranged
substantially as described. substantially as described.
3d, Constructing the front hanger, $, E, E \prime$, so that it can be at
tncled to the top of the lon Eitudinal beams, $A$, and at the same tached to the top of the lon gitudinal beams, A, A, and at the same
time will serve as a supinort for the two shafte, $\mathrm{c}, \mathrm{b}$, in the manner
subs tan tially as shown and described. substan tially as shown and described.
th, stantially as shown and described.
55,906.-Fence-gate.-F. Raymond and A. Miller, Cleveland, Ohio:
We claim the cord, h, adjustable case, $\mathrm{e}^{\boldsymbol{f}}$, and shcave, e, in com
bination with the gate, A, arm, F , when arranged and operatin 55,907,-Window-sHade.-Henry Read, Ypsilanti Mich.
I chain the combination of the stap les or rings, $\mathbf{C}, \mathbf{C 2}, \mathrm{C} 3$, or
their equivalents, conds, $\mathrm{E}, \mathrm{E}$, secured to a tassel, D , either weightel or not, whin arrangcd and connected together and to a win.
dow-urtain or slade so an to operate thereon, substantially as and
or the purpose described. or
55,908--Corn-Planter.-W. E. Rich, New Providence, Iowa:
I claim, 1st, The hinged bars, $D, D$, provided with the rollers, $i_{\text {, }}$ and boxes, $G$, in connection with the wheels, 1 , haviug sced-cells
b, made in the and ro s, c, attached with weights, fat thicir up
per ends, all arranged to operate in the manner substantially as per ends, all arranged to operate in the manner substantially a
and for the purpose spccificd. add for the purnose silccificd.
2d, The hoes, $F$, attached to the rear ends of the bars, $D$, in com-
bination with the sced-drop ping mechanism attached to said bars, D, fo 'the purpose set forth.
3, The rollersi, II, I, in combination with the seed-dropping me-
chaniem and covering-hoes, substantially as and for the purpose 4th, The astarl:ing of the rollers, i, to arms, b , pivoted to the substantially as shown and described for the purpose of adjusting 55,909 , A UTOM
5,909.-Automatic Machine for Lighting and extinguishing Gas.-H. Stone Richardson, as signor to himself and E. P. Russell. Manlius,

I cldim, 1st, The setting-wheel, C,in combinationwith the hands,
the purposes sct forth.
2 d , The match cylinder, $G$, constructed and operating substan-
 and plate, J, substantially as and for the purposes set forth. 0
 substantially as and for the purposcs sct forth.



55,910.-Reaping Machine.-E. P. Russell, Manlius, N. Y.
Ially as and for the "purooses set forth. or its equivalent, substan${ }_{2 d}$, The dumpect-reel, 11 , in combination with the side-dumper, 0 , substantially as and for the purposes set forth.
 in the manner described.
5th. The device used for tripping the side-dumper, substantially in the manner describel.
55,911.-Medical Compound.-W. F. Salie, Bowdoinham, Maine:
I claim a medical compound composed of the everal ingredicnts as and for the mixed gether in about the proportions described,
55,912.-MaCHine for making Horse-siof Nails.
-George W. Sargent, Fairhaven, Mass., and Jjen-
jamin P. Rider, Chelsea, Mass.
We claim, 1st, Operating the hammers, $\mathrm{C}, \mathrm{C}, \mathrm{C}^{\prime}, \mathrm{C}^{\prime}$, by means
of the sliding connecting, ineces, D , and cam, F, substantially as
aud for the purpose specified.
Also, the adjustable boxes, $G$, in combination with the cam-shaft.
Epeconnectine pieces, D, and the hammers, as and for the purvose
sped,

55,913.-Railway Switcr.-Charles H. Sawyer Hollis, Maine
 constructed. arransed, and operating as herein set forth and deacribed.

55,914.-Automatic Gate.-J. H. Schenck, Chicago, Ill.:



 seribed.
sthh, In combination with the reciprocating platform and the
nanges, substantially as described and forthg
55,915.-Apparatus for producing Extract of Hops, Etc. - John Schneider, Williamsburg N. $1 .:$

Claim the siphon-tube, E, in combination with the tightly-
closed vessel, $A$, which is provided with a horizontal partition


55,916.-Manufacture of Car Wheels.-J. Scoville, Buffalo, N. Y.:
I claim the combination of spiegeleisen and iron in the manu-
facture of car whecls, in the maner her
55,917.-Picture Nail.-Frederick J. Seymour,
Wolcottville, Conn.
I claim an orramental. picture nail-head made with a screw
tor the nail, in the manner specifed. 55,918.-Drilling Maciune.-Frederick Shaller. Hudson, N. Y.:
 stantially as herein speciffed. of the machine, all a rranged sub-

55,919.-Machine for cutting Window-shade SLATS.-P. P. Simmons, Davenport, Iowa:
 manner and for the purpose describeliberintrs, D, cutrer-arbor,

55,920 - Garbage Box.-James Joseph Slevin, New York City:
 lind in sidit top, so that the said to p with its door covers the gar-
 scribed
dod Thic construction of the garbage box with two horizontal
doors, to form parts of the side wall, the smaller within the doors, to form parts of the sidewall, the smaller within the

 tuth, The combination of the garbage box witha drain grating
fetending upt or near its top, st ithat the liquid matter may
drainfrom the surface of the garbage, wherever that may be, as described.
fith the combination in a arbage box of the following parts.
firm
for the tor form part of the sidewalk or the street, and oneside eonstructed
tof orm part of the curb of the strect, as described.
55,921.-Gang Plow.-Joseph D. Smith, Peoria, Ill.: )
I claim, 1st,Arranging the gang of plows between the forward
and the rear points of sup oort of the carriage frame 10 which



 forrarar part or of said frame being elevated or depressed at pleas-
ure sulstant tially as descri bed
 ing or falling, I clain, the gravitating , catches, d , d , or their





55,922.-Top-sail Reefing Rig.-Wm. G. Smith and Daniel Hooper, New York City:



speciified.
55,022.-LACING FOR Boots A
A. Sprague, New York City:





55,924.-Bоок-Holder.—David J. Stagg, New York City:
C claim the arme, C, C, secared in the cleat or strip, B, by
sciews, b, band provided with pivoted fingers, D, at their outer


55,925.-Stand, Desk, and Book-holder.-David J. Stagg, New York City


55,926.-Portable Fence.-Jno. K. Staman, Miffin, Ohio
I claim the braces, d, d, and counter-brace, ${ }^{\text {d }}$, in combination .

55,927.-Needle for Sewing Machines.-Monroe Staimarl, New Britain, Conn.
I claim the employment of the needie as described, in combl.
 sewing-maciline needile a, eccentric with reteren
c , substantially a sand for the purpose described.
55,028.-Washing Maceine.-Henry H. Staples,
Woburn, Mass.
 with the rubber, the tub, and the series of rollers
such tub, the whole being substantially as specilica.

55,020.-Meansifor Fish to pass over, Dams.Daniel Steck, Hughesville, Pa

 whole being constructed and arranged in connection with the
cnd of the cam and with the bank of the stream; substantially
as described and for the purpose set forth.

55,930. - Horse, Rake.-Henry, Stimmel. Aanton, Ohio:
having a slot, " $K$ ", therein, with the screw, " $H$, in connection
 55,931.-Stop-cock.-Herman Strater, Jr., Roxbury, Mass.
I claim in a stop-cock providing its plug with elastic yielding
filling, substantially as and for the purpose described.
55,932. - Wrench.—George C. Taft, Worcester, Mass.:
It claim the arrangement of the nut, I.in combination with step, J, constructed and operatiog in the manner and for the
purpose herein describe
5,
55,933.-Buckle.-D. S. Thompson, West Haven, Conn.
I claim the combination of the frame, A, with the tongu e, $B$, of the frame, the whole constructed are hanged arranged to operate

55,934.-Churn.-W. H. Tillou and S. Shumway, Le Roy, N. Y.
We claim the gear or cog-wheel, $D$, constructed with curved
cogs or tlanges on the side of its rim, substantially as hercin de scriber, in combination with the cog-wheel, C, of the dasher-
handle, B, ior the purpose of frequently reversing the motion
55,935. - Carpet-stretcher. - E. W. Twing, Springfield, Mass.
 b, socket, c, and set-screw, a, or its equivalent, in combulination
with the shafts, $A, B$ of a carpet-stretcher, substantially as
specified. specified.
R, The rounded head, $C$, in combination with the levers, A,
B, 55,936.-Broom-HEAD.—James Wasson, Fairwater, Wis. :
I claim, 1st, An improved broom-head formed by combining B and C , constructed substantially as herein described and for
the purposes set forth, said haves leing held together at the O and E, constructed as des cribed, with the parts or halves, $B$ and C substantilly as and for the purpore set forth.
3d, The conbination the halves or
parts, $\mathbf{B}$ and $\mathbf{C}$, substantially as desed qpiked and for for the purpose set
55,937.-Tobacco-Press.-W. H. Watson, Yonkers, N. Y.:

I claim, 1st, The inner or secondary box, constructed and operating, subs tantially as described, for the purposes set forth.
2d. In combination with the same,
plate and clame thamps, when the same shail be constructed, combined, plate and clampsp, when the samee me shà
and operated substantially as shown.

55,938.-Apparatus for Oiling Jotrnals.—James I. W eaver, Temperanceville, Va. :

I claim the combination of the vessel, $c$, and pipes, $d$ and $e$, with for the purpose set forth. 55,939.-Stove-pipe Drum.-Harvey G. Whittaker, Brattleboro', Vt.: Irumaim the combination of the internal drum, $\mathbf{B}$, intermediate drum, A, and external drum, C, with the pipes, D, E, F, G, when
the parts are constructed and arranged in the ma nn er and for the
purposes herein described. purposes herein described
55,940. - Sash-SUPPORTER. - Martin V. B. White, Troy, N. Y.:
I claim the employment of the arm-piece or rod, $c$, having the thumb-piece, 1 , thereon and the opposite end thereof so constructangularrecess, E, eachl being a arranged and combined in the man-
ner substantially as herein degcribed and set forth

55,941. - Measuring-funnel. - A. H. Whitney, Portland, Me.:
I claim the combination in a funnel of the graduated scale, the
stop-cock, the tlange and air vent, allas and for the purposes speci-
55,942. - Harness-hook. - J. J. Wilkins, Virdeu, Ill. :
I claim the hook, A, provided with the transverse opening or
hole, $n$ and the horizontally
oprojecting cars, a, constructed and 55,943.-Railroad Switch.-John A. Williamson, Lafayette, Ind.
I claim the combination of the bridge, A, tapered guide, B, and
tapered oar, c, when the latter is securely pivoted to the guide,
g. and all constructed and arranged in the manner and for the
purpose herein specified.

55,944.-Die For cupping or raising Articles of Metal. - Samuel R. Wilmot, Bridgeport, Conn.:
I claim the att achment of the blank-holder, B, directly to the
bed-plate or fixed die, $\Lambda$, substantially as herein sct fortli for the
purpose specified.
55,045.-Boring Machene.-Benjamin T. Young, Charlestown, Mass.
I claim a grooved cam constructed with inclined sides, in comb
nation with a cone-traveler.
55,946.—Weigiling-car. - Joshua II. Zinn, King ston, Tenn.:
I claim, 1st, The arrangement of the levers or frame, $\mathbf{B}$ and $\mathbf{C}$ gether, and with any suitable yeighing-lever or beam in co ulina tion with the inside box or casing resting at each end upon such
frames, $B$ and $U$, substantially as, descrijed and for the pur rose
specified. ${ }^{\text {The }}$ shaft, $P$, having cam-ghaped disks, $R$, so arranged as
to lift the inside box from the weigling-levers or frames, for the purpose set forth.
55,947.-Maciine for hulling Coffee.-Rober Anderson, Brooklyn, N. Y., assignor to S. O. Ry der, New York City
Ing coim the combination in a machine for hulling and polish ing coffee of an obliquely ribbed wheel, E, rotating within
sit rify conical toothed concave, A constructed as described
nit a series of wings, G, rotating within a horizontal taperin ain a series of wings, G, rotating, Aithing a hortizontaltapering
or conical case, A, the whole arrangel to operate substantially
as herein set forth for the purpose specifted.

55,948.-Broom-IIEAD.-J. D. M. Armbrust, assignor to himself and Jacob Freetly, Apolloborough,
Pa. Pa.
I claim the metanlic band composed of thin metal and fur-
aished with slots, in combination with the strengthening picces ind bolts and nuts as and for the purpose described, alsoctho
combination of the movabte cap piece andthe handle slotted at combin ation of the movabse cap pitce andthe ha nille slotted a
itslower end, forthe passage of the bolts constructed as de-
scribed, and for the purposes set forth.

55,049.-Apparatus For Carbureting Air.-
Franklin H. Brown, assignor to himself and James
F. Griffin, Chicago, Ill.

I claim, , st, The Combination of a serics of revolving buckets F, and a hollow stationary slant, G, provided withthe openings,
a and b, arranged aud operating subs ntially as and for the
 a stationary hollo wshaf, a, when providearith the partítion ing as and forthe purposes shown and described.
3d, Incombination with a carbureter, Ac arranged above th bu, Incombination with a carbureter, A, arranged above tho
burners, claim the employmentor a devic for compressing and forcing air into e the same, substantially as and for the pui.
poses herein specified and shown. 4th, The employn ment of an automati cally closing valve, V, in
combination with a close carbureter, arranged above the buin ers and a device for compressing and forcing air into the car-
bureter, and a weight or its equivalent, for operating the same substantially in the manner and for the purposes specified
55,950.-Apparatus For Caibureting Air.-
Franklin H. Brown, assignor to himself and Jas.
F. Griffin, Chicago, Ill.

Ii claim, 1st, The combination in one device of two or more 2d, The arrangement of the pnes of a carbureter in two or more independent sets, in coilisiaztinn with devices ior drawing set sinultaneously, su bstantialy as specifine and ghown. substantially as and for the purposes described.
4th, Proviling the inlet tube, N, with a cap, $P$, arranged as
shown and for the purposes set forth. shown and for the purposes set irth.
sth, The combination and arrantement of the deflector, $V$, with the inlet-pipe, $N$, substantially as specified and
and shown.
55,951.-Composition of Matter.-Lewis Francis, assignor to himself and Cyrus H. Loutrel, New York City:
I claim combining glue, gly cerine, and silicates, with or with.
out saccharine matter, to .orm anew and useful composition of
55,952.-Grain Separator.-John Green, assignor to himself and James W. Barker, Norwalk, Ohio :
 hd, The double inclinere ends or the upper screns, i, of the
shoe, F, F, in combination with the side openings, m, $i$ the
shoe-boxes, substantially as and for the purpose set forth
55 953.-FAstening FOR FRUIT CANs-George Hammer, Newville, Pa., assignor to himself D. J Brougher and Wm. A. Middleton, Harrisburg, Pa.: tacherl to ears, $e$, or lugs, c, substantially as shown und de-
scribed.
55,954.-Butt Hinge.-James C. Hyde, assignor to D. S. Thompson, West Haven, Conn.

I claim a hinge, the two parts of which are formed and united,
substantially in the manner herein set forth.
55,955.-Metallic Seal Envelope.-Ralph S.
Jennings, assignor to himself and Norman G. Kellogg, New York City :
I claim, 1st, The metallic seal applied to envelopes in their
manufacture, substantially as and for the purpose described.
 set forth.
55,956.-Clothes-SPRINKLER.-John L. Kendall, assignor to himself, R. H. Trested, and Lewis Hurst, New York City:
I claim a clothes-sprinkler, composed of a conical vess el, A,
hande, $B$, neck, $C$, and nipple, $D$, aa a new article of man ufac-
ture.
55,957.-Fire-alarm.-C. D. Kubach, assignor to himself and W. W. Clay, Philadelphia, Pa In claim the casing, E, with its piston, $G$, pin, w, nnd spring, $t$, scribed alarm mechanism, or its equivalent, the whole being
constructed and operating substantially as and for the purpose constructed
described.
55,958.-Mode of setting Stationary Steam Boilers.-Caleb S. Nelson, West Troy, N. Y., assignor to himself and Henry I. Seymour, Troy, N. Y.:

I claim, ist, The annular chamber or surrounding chamber, s,
the manner and for the purpose substantially as herein described
and sut forth.
2d. The fuspending of the stationary steam boiler, $B$, within
the brick aren or mason work, $\Lambda$,surrounding the sime so as to form an air-chamber, a, inmediattely upon and over the uppe surface of suchsteain hoiler so as toprevent the escape of heat
in themanner andfor the purposessubstantially as herein de scribed and set forth.
55,959.-Piciser-arm for Looms.-George W. Pat erson, assignor to himself and H. M. Payne, Newburyport, Mass.
I claim, 1st, The picker-arm, constructed and arranged for

3d, In a picker-arm and in combination with an inclosing
3d
Incli, a hercincteseribed, I clain uhe triction-loller when of an
 shell, as hereiustiown and set forth.
55,060.-Cfiurn and Ice-cream Freezer.-Thom as W. Pomeroy, assignor to himself' and Wm. J Layman, East Hampton, Mass.
I claim tive combination of the cylinder, $C$, with the casc, $A$
 nad of $\Lambda$, and either with or withont thic fect, c, to rest on the the
fattom of $A$, substantially as and for the purnose specifled. 55,961.-Mop-IIEAD:-Louis C. Rodier, Springfield Mass., assignor to himself and Henry Hammond Ante-dated Dec. 26, 1865
claim the jawa, B and C, having fingers or teeth, for the purpose hercin specined, when combined with the hande and
ring, in in such nlunner an tor orma anoor mop, the whole being
arranyed substantially as hereindescribed.
55,062.-Liquid-cooler.-Joseph R. B. Schwarze, assignor to himself and Daniel Pfeil, Washing ton, D. C.
I clanim the cliamber, C, provided with a pipe, B, and arranged
or attachnicnt to the faucet by the coupling, E, as described and represented.
j5,903.-Platform Scale.-F. M. Strong and Thomas Ross, assignors to Joan Howe, Jr., Brandon, Vt.
We claim, ist, The combination of the levers, $c, c$, and the
links, $k, k$ with their upper and lower bearings, in, $i$, and the econdirylever, $D$.
in is and for the pprpose described. shi, The combin nation of the poise, s, lever, $p, x$, graduated
pate, , and anovablestop-pieces, $w$, as and for the purpose described.
55,964.-Car-brake.-James Temple, assignor to himself, John Schock, and IH. E. Miller, Selinsgrove, Pa.
I claim the combination of the rock-shafts, D, arms, fif, and
55,005.-Nut Tapping Machine.-Frederick Vot teler, assignor to Jacob W. Holenshade, Cincin nati, Ohio
I claim, st, The combination in a tapping machine of taps
or right and lett-hand nuts, arranged and operating substain-
tially ais described.
tially as described.
2d, The combination of two or more taps with a mechanism
or adjustinr simultaneously a and to each, arranged and oprating substantially as described.
25,966.-Pencil-case.-D. T. Warren, assignor to himself and Amedee Spadone, New York City :
i, claim the arrangement of the lead-holder, a, shart b, tube,
c, straight slot, d, stnd or ;

55,967.-Water-closet.-Darius Wellington, assignor to Cornelius Wellington, Boston, Mass. I claim, 1st, The arrangement of the shaft, $\alpha$, slotted plate, ,
arm, i, and rod, $k$, for supporting the pan hy the connection be-
twecin it and the operating rod, substintially as described Also combining with the gujp eq- pipland pan the fexible air - ball or chamber, operating to seal tie pan, substantially as
set forth.
Also, in combination with the hopper, a, the divided nozzle
 in A) with the fliunte, p, and stand, , substantially as described.
 the int terposed packiog,
oj,963.-Knitting Machine.-H. L. Williams, assignor to The National Knitting Machine Company, Seneca Falls, N. Y.
Pclaim, 1st, The combination of the cogs, $k$, $k$, with the lags
onstitutink the form
und arc and with the gear-whecl by which inf arc driven, snbstantially as specificed.
gi, The combination of the curved guid, G, with the form, B ,
nd j5,969.-Manufacture of Artificta
, Wilinanufacture of Artificial Stone.claim, 1st, The manufacture of and
I claim, 1st, The manufacture of artificial stone, bricks, and
tiles, or other lard naturial, by mixing and using the sulphate
of iron or other similar metalic sulphates or othe similar mix of ii, on or other similar metallic sulphates, or other similar mix.
tures of acils with metallic bases, and the several materials hcreil-t)cforedescribed, in combination with cements and silica, 2d, The npph1ceation of the coloring matters before named in ombination with the siica anio other materias.
3d In the manntacture of bricks and tiles from plastic materi-
Is, the application of the naterials specified for the pu:puse of


55,970.-PetroleUM Tank.-Paul Jacovenco, Bucharedt, Wallachia
Ing petaim the hercin-described and other oils, the satus con preserving or storcent i, cyininiers, the nace between then being divided by a indrer hy means of apertures, as describeth, in combination with
pipes arrangedfor opelation as auclforthe purpose set forth. 55,971.-Hot-air Engine.-William Reintein, Barcelona, Spain :
I claim, 1st, The arrangement of the support of an atr ensine
so that the axis of the motor cylinder shall be vertical, in the manner and for the purposes set forth.
ad, The countination and arrangement of a tubular boiler in
the place of the dome which serves asat furnace in the Ericoson the place of the dome which serves as a furn
machine, as and for the purposes described.
55,972.-Corswt - E. Hambujer, Detroit, Mich.
With a continnous or connected back, forming a lap or gore
when the lacings art drawn to tighten the garment around the
person
2d, In combination therewith I claim the skirt supporting


## RE-ISSUES.

2,202. - Liquid-cooler. - Adalbert Fischer, New York City. Patented May 15, 1866
I claim the movable heads, le, with annular rcersses. a, in combination with one or more bolts, F, annular cylinder, $\Lambda$, and ves-
sel, b, all constructed and operating substantially as and for thu
purpose described. purpose described
2,203. - Straw-cutter. - Warren. Gale, Chicopee
Falls, ilass. Patented March 7, 1854


 above the said fixed knife in proportion to the increased dietance at
which it is ad insted aivn f rom the knife to give a longer cut and vice versa, substantially yas liercin set forth.
2,204.-Harvester.-William K. Miller, Canton, Ohio. Patented July 2, 1861:
I claim, Ist, Thie pulleys at or near the lower end of the inne I also chitim the single endiess bcit or chain passing from the


2,205.-Harvester.-William K. Miller, Canton,
Ohio. Patented July 2, 1861:
I claim the bent levers, s, photed at the heel of the shoe, and
extending to a point between the driving whecls, and thicnce conncececte a evernearthe driver's seat or stand,for the per
pose of raising the outerend of the finger beam, subst pose or raising the outerend of the finger beam, substantially
as described.
2,200.-Harvester.-William I. Miller, Canton, Ohio. Patented July 2, 1831


2,207.-Method of warming and ventilating Buildings.-E. Y. Robbins, Cincinnati, Ohio, Patented May G, 1862:
 In connection with the arring ement for the introluction at the
botton

 pipes, mortar, etc.,of the radiator, W, Fig. 6, all substantially
as sct forth.
3d, In case of warming the apper rooms by the waste heat of 3d. In case of warming the nper rooms py the waste heat of
the fre in the 1 ower story, 1 ciaim the arrangement of an iuncr sinoke.flue within the brick fue or chimney.E. Fig. 3, and the between this innersmoke.fue and the sides of the chimneyin.
wardsunder the fioor of the upper room for warming it, or any

 rad iating power shall increase assthe distance from the firn face
orsourceof heat hicreases and as the temperature of the uir

 wiil acquire, a suffient de gree op hardness), placed in and ment for hating itby bot.water pipes or steam pipas, placeed
maderthe tiles or otber material of which said radiator may be
formed.

2,208.-Water-proof Gaiter Shoe and Boot.The Goodyear Metallic Rubber Shoe Company, Naugatuct, Conn., assignees of Thomas C. Wales Patented February 2, 1858:



## DESIGNS.

2,340.-Envelope.-Samuel Rayner, New York City.
2,341.-Trade-mark.-Levi Sohl, A. J. Sohl, and David Gibson, Indianapolis, Ind,

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## Improved Gage Cock

The common try-cock for steam boilers is similarin construction to the faucet, or is operated by a button in the line of the barrel, the pressure of steam or a spring returning the valve to place. The engraving illustrates an improved gage cock which is easily understood. A represents the front of the boiler into which the cock is screwed. B is a hollow screw plug to admit the steam or water, which, by the movement of the lever, C , is discharged through the pipe, D. E is a stuffingbox, or cap, provided with a projection, with rule joint, to receive the end of the lever. The plunger, $F$, fits the chamber, so that its movement for ward closes the aperture in front of the delivery pipe, and obviates the necessity of close packing.
The operation is pcrfectly simple. By a pressure on the lever the valve, $G$, is opened, and on the removal of the pressure the coiled spring returns it to place, if there is no adequate pressure of steam. The view is that of a horizontal section, and can be understood by any mechanic.
Patented through the Scientific American Patent Agency, May 15, 1866. Address, for further information, Frederick Henke Scranton, Pa .

## Improved Journal Bor.

The waste of oil by the overflow of journal boxes, the annoyance of drippers, and the loss and inconvenience by the upsetting of the oil receptacles,comprise together a source of much trouble and vexation in every manufactory using shafting. Added to this is the time required daily in proper at tention to the journals of shafting. A self-lubricating box, therefore, which requires but little attention, and which obviates the necessity of using dripping tins, would be a valuable improvement.Such is the design here illustrated.

A, Fig. 1, is the case of the box, and B, Fig. 2, is the lower half of the box proper. It will be noticed that the case or shell projects much further below the shaft than the cap, C, does aboveit. The space between the bottom of the shaft and the innel lowersurface of the shelr is an oil receptacle, $\mathrm{i}^{\prime} \mathrm{u}$ tended to receive the lubricator. The cap, C, is the top of the box proper and is lined, as is $B$, with Babbitt metal or other anti-friction material. The hox is not so long as the shell, leaving a space at either end, which is covered, at D D, with a hood held in place by a movable pin passing through the top of the bead, $\mathbf{E}$.
These end hoods or caps can be removed at will to examine the bearing and replenish the receptacle or reservoir.
This is the general construction of the box and its parts. The means of lubricating are wicks, shownat F and G . Through the bottom of the box, B, are


SELF-LUBRICATING JOURNAL BOX.
three or more cylindrical holes, connected with a semi-cylindrical score, to receive round wicking, which passes through the holes, and, by capillary at traction, raises the oil. To further insure perfect lubrication, a piece of flat-braided wicking or other suitable material, is laid along on the ridge at $G$, and connects by cored ports, shown at G and H , following the contour of the box, with the reservoir. Any overflow of the oil passes out at the ends of the box the Galaxy
The Galaxy possesses many features that are novel and pleasing, and not the least is the Editor's peculiar department; he brings up the rear of the book, and styles his lucubrations Nedule-not a happy name, for they shine with no faint light, but with a steady and abiding radiance.
We publish on another page an article on the Spectroscope, by Prof. Draper, which is taken from the Galaxy, and our readers will thus have a chance to taste its quality. It appears every fortnight in a brilliant dress of brown and gold, and is already a permanent institution in the world of magazinedom.

## University Law School.

On Tuesday the 19th ult., the graduating class of the Law School of the University of the City of New York were admitted, by the Supreme Court, to practice as Attorneys and Counselors at Law. The examination of the students occupied the greater part of five days, and was held before a committee appointed by the Supreme Court of this State. The commencement exercises were held in the large chapel of the University on the evening of the 19th, and the degree of Bachcllor of Laws (LL. B.) conferred upon the graduating class.

We understand that Prof. J. N. Pomeroy, Dean of the Law Faculty, intends, in addition to the usual course of study, to introduce a course of instruction in Patent Law. This will be a new feature in our law schools, and one which we hope will be successful. The practice of patent law has grown to be a distinct and important branch of the legal profession, and any one attempting to practice it needs to be well instructed.

It is in contemplation to build a new and costly Executive Mansion on the high grounds east of the Capitol, and turn the White House into a fire-proof building for the State IDepartment.


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