

ISSUED FROM THE U. S. PATENT OFFICE OR THE WEEK ENDING april 3, 1866
${ }^{\circ}$ Pamphlets containing the Patent Laws and full particulars of the mode of applying for Letters Patent specifying size of model required and much other inormation useful to inventors, may be had gratis by addressing MUNN \& CO., Publishers of the Scientific American, New York.
53,552.-Quartz Crusher.-S. F. Ambler, Tuolumne Co Cal:
Claim the strip or flange, c. attached to the mortar box, A, of a
fooat quartz battery, sub:tancially as shown, for the purposes se
63,553.-Weighing and Measuring Grain.-D. D. Armes, Decorah, lowa:
 the purpose set forth.
second, The self-emptying cups, $m^{\prime}$ ' n ', in combination with the
rods $r^{\prime} \mathrm{r}^{\prime}$, and links. s s, substantially as and for the purpose set
forth,
Third, The arrangement of the shoes, M N, links, s , and rods,
$\mathrm{r}^{\prime} \mathrm{r}$, in combintion with the cups, m' n', , iods li, bar, K , and boxes 53,554.-Safeguard for Watches.-Fugene F. Badgley, Brooklyn, N. Y.:
First, I clainn the artachment to a watch or locket case or a
clamp or ring, wian constructed in the manner and for the purpose as described.
second, also claim the strap or its equivalent, when attached
to a watch or locket case by a clamp or ring, in the manner an
53,555.-Gage Cock.-Phinehas Ball, Worcester $\xrightarrow[\text { Irst. } 1 \text { claim }]{\text { Mass.: }}$
 nd for che purpo es stated.
Se iond The combination the coupling, B, with body, K, hav
ng a water way, I , and port, m , arranged and operating substantially as set forth
Third. The combination with the plug, $P$, of the ports, $m, n$ and
$t$, arranged aid operating substantially as set forth. 53,556.-Carriage Spring, etc.-M. L. Ballard, Ganton, Ohio:
claim the uniting and holling the ends or plates of a spring by
means or a a indeoendent cap, and bote or rivet. made and applited 53,557.-Street Sprinkler.-L. F. Bancroft, Worcester Mass.:
And the botton ting the upper part of the thater reservoir, A, circalar,
and 3,553.-Tool for Trimming Boot and Shoe Heels.-S

1866: Bedell, Red Bank, N. J. Antedate A March 30, 1866:
I claim a tool for trimming bot or shoe heels, having the general
construction and arranze.uent herein described and eit ere witu
ar without an adj istable cucter siock, operated as specified. or wi hout an adj istable cucter siock, operated as specified
53,559 .-Plows. - Alonzo T. Boon, Galesburg, Ill.: or oper tine cither a mole or subsoil poow, substantially in the manner and for the purpose her ein set forth.
S.cond. The standards, B B
S.cond, The standards, B B, eititer of the subsoil or mole plow,
having a series of norches or teeth, b, as arranged and used having a series of norches or teeth, b, as arranged and used in
their connection with the spiral cam and frove of the beam, A,
substantially in the manner and for the purpose as lierem set Third. The arrangement of the brace bar, E , in its relation to the standards, with s.acile bar and connecting rod, do attached to
the bean of the phow. substantially in the mannes and for the pur-
pooe as herein set forth. Fourth, The arrangement of the mold board, $F$, with the subsuil
plow, substantially in the manner and for the purposes as herein
set forth. set forth.
53,560_-Car Coupling.-John W. Boughton, Appleton, I claim the combination of the shouldered tumbler, obliquely set
couping pin and corresponding opening, operating substantially 53,561.-Social Game.-Milton Bradley, Springfield, Mass. Antedated March 30, 1866:
I claim as an article of manufacture, the social game, substan 53,562.-Letter Boxes.-W. H. Bramble, Decatur, Ill. Antedited March 30, 1866 :


53,563.-Manufacture of Bronze Powder.-Leopold
Brandeis, Brooklyn. N. Y.:
I claim the production of grains, serapings, fillnge, shavings or
borings irom copper, tin. ete., their allogs by proper tools, inie a
 means of rollers or stannser with polished ste... or chilled surface,
for the purpose of geting them bryght and brilliant to manufacture
thereirom bronze nowder in any way used for the purpose of retherefrom bronze nowder in any way used for the purpose of re-
ducing titese small fat fragments st still tiner ones, alwass offring
a bright surface.just the same as if the metal hati passed previous throurh all the processes of repeated ham mi in ings, annealings,
rolling , beatings, etc., etc. 53,564.-Drill Cable Meters.-L. C. Bristol, Victor, N. Y I claim in combin ation with the drill cable or its 'quivalent. of
well boriog aparatus, a niter having a tration wheel or pulley,
substantiaily as shown for the purposes herein set 53,565. - Plowshare.-P. H. Bronson, East Avon, N. Y. I claim securing the detachable false point, $P$ to the shares ot
olows, by meang of the screw bolt, s, and the dovetail hacking
lips, ab and c, substantaily in the manner and for the purposes lipg, ab and c, substantailly in the manner and for the purposes
heren set forth. 53,566. - S. Step Ladder.-Charles W. Brown, Newark, I clamm the arched brace of word in one piece, spanning the
ladder trame, substantiaily as specified. 53.567.-Corn Sheller.-William R. Burns, Lancaster, I clainm the combination of the adjustable shelling bar, with its
slots, II I, and the concave, double-inclined botto. Pl P1, P2, writh
its opening, $V$, under the spiked cylinder, $G$, together with the
 ine. when these several paris are arranged and operate
substanclally in the manner described for the purpose spe ified. 3,568.-Carriage.-Clarke T. Bush, Rensselaerville
 53,569.-Method of Extracting Gold and Silver from I claim the manner of using atmospheric indir for the purpose of facilitating the extraction of cold and silver from ores, causing a and consi-ts in in'roluating the said atmospheric of air between the name of the ser erati, g furnace and the ores contain
silver whici are spread upon the hearth of the furnace.
53,570.-Valve Gear for Oscillating Engines.-Henry T Carter. Portland, Me.:

53,571.-Means for Attaching Legs to Music Stools.-
Elijah D. Castelow, Meriden, Conn.:
I clain the combination of the pillar, A A, with the blocis or
peces, C , tio lege. D. any disc, it, when the dovecails are mace to 3 , K. Chase, Charlestown, Mass.:

 lever, M, and slidng rod, N, and the pawls, bb, on the wheels, C
f, or slatit. E all arrangc, and applied to operate in the manner
substantially as and for the purpo substantialy as and for the purpose speci sed.
Ifurther clanm arransing the that E , so that it will have a for-
ward and lackward movement in its bearing to admit of the wheels
 hatt. thus arranged, is used in co nection with heys, d d, of the
hvers, 1 , and the snrings, $K$, with their outer ends attached to
be frame, $A$, or to a fixture thereof, substantially as describe 53,573.-Stair Carpet Pad.-George W. Chipman, Melrose, Mass.
I claim as a new article of manufaciure, the stair carpet pad
onstruct:d or one or mise covered on each site wins sheeds of paper and en veloped in a d dosed
case of textile material. when case of textile materi.ul, when the whole is qualted at several points
hrough all the materials composing the pad. 53,57.t.-Railway Car Coupling.-Thomas J. Christy Noblesvllle, Ind.:
I clain the drop latch, L, when the same is constructed substan-
tially as shown, with pioted slot, p. and inclines. d and i, escl
 oupling, as set forth in the toregoing specification.
$53,575 .-$ (irain Drier. - George Clark, Puffalo, N. Y.: first, i clam a ciosed or air-tignt grain drying kiln or clamber
combined and operating in connecion with aur-heating furnaces and blowing dir pumps or fans, for the purpose and in the manne

or cham, er cor an andiausting air puid air-tight grain drying kiln
manner and for the purpose set forth. Third, Providing, saud aur-ughlt grain drying biln or chamber
havisg an exhausing air pump combined herevith, with valves or doors, wh ich may be opened to admic coid air therein. for the Fourth, The combinatiou with said air-tight drying kiln or cham ber od one or more evaporation escape valves. G, or other equiva
lent device, oprating in the manner and for the puriose suostan-
tially as herein described. Fiith, In the combunation with said air-tight drying kiln or
Fingler, ur with an aux:liary conling chamiter, of a cold air inl
 3,576.-Broom Head.-James O. Clay Hudson Wis First, I claim a brom head or frame consisting of the piece,, ,
avin the socket formed thereon, and the piece, $A$, provided with he arme, a and d, fiting in the openings in said socket, sald plece iecond, Eecuring tiie laadle in place by means of the projection,
c. and the grove,
 Fouith, I claim torming t e teeth on bars, C and D , with their
and faces standing diagoually, as and tor the purpose set forth.
53,577 . - Rotary Plows.-Levi H. Colborn, Chicago, 111.
 the periphery toward the centre, beerinning at or cear the entering
edde, and gridually incretsing toward the leaving edge the same
being a developme:, of the mold board of ihe common plow around second, Attacling



 and unobsti ueted substantially as described
Fith, Connecting the plow shatt the the axle of the driving wheels
by a loose journal, D, so sio tollow tire plow to virrate in order to nass smali stones aud other light obstructions, ubstantally as se
53,578.-Gig Tree.-Edward A. Ceoper, Lancaster N. Y.:
First, The square raised shank, C, on the clack hook, E, and
corresponing mortise in the tree plate, in combinat on with a

 the purpese set fo:th1.
rourih, Rivetning the flap:, M, to the tree plate on each side of the
 cureand hold dre nutin memamer deseribed.
$53,579 .-$ Sed $p r i n g$.-Delos V. Crandall, Canton 1owa:
 53,580.-Mangle and Wringer.-David Cumming, Jr. New York City:
I clam the use of tine abutments, gi, in combination with two or
more rollera, arranged substantially as described and for the pnr $53,581 .-$ Apparatus for Distiling Spirits.-H. G. Day
 surited. The amular steam ciáambers, e D, one or more in com
Second, The ination with the evaporating pan, E sit $\epsilon$ m jacker, d, still, $A$, and
drum, $B$ enstrucied and operation subst, ntially as and for the
durpose set forth ,582.--Bullets for Small Arms.-John G. De Coursey, Philadelphia, Pa

 asainst the rear of to sui.. tube. the whin
structed d 3 set forth, for the purpose spe if 0
fisld, Hanufacture of White Lead.-Clarence Dela-
fille, N. Y.:
lead or its equivalent for this purpose, made substantiolly os de
scribrd, with a solution of the carho nate of putasi, or its equivalen

 nitrate of itead, or its equivale thit pur ose. with a h hit solution of this purpose, without reard
he par the proport ons in whic hthe two oslutions are made, for the pur
pose of producing the whinte lead of commere. 3,584.-Reservoir for Wells.-R. H. Dewey and E. N Tillotson, ittsfield, Mass.: We claim in its application as a buried water reservor in the
oottom of a well, the filtering chamber consistnr ot a per torated
ylinder whose int he central space forming a chaces are filled winh filtering materteral
ind drawn by an ording which the water suppl 53,585. - Door Latch.-Henry L. De Zeng, Geneva claim, First, The silding latch, $A$, and boit, $B$, tantially as specified. Secoud, The cheek latch, F, in combination with the cieat, D, and
atch, A, and bolt, B, all being constructed and arranged substan
tially as set io rth. 53,586.-Rock Drill.--Julius C. Dickey, New York
City: Claim:
I clame central drill bit, B, made to answer the purpose of
rembet forth. 3,587.-Typographic Printing.-John Donlevy, New York City:
I claim. First, The utilizing the spaces between the letters and
 te sections and text, spaces, qua arange alternatelv, or ot otherwise, with
nubstantially as and for the Seposes set fort
second, The use and applicat'on of improved intarlio type, with
hain surfaces, whlich adant such type to artisticanly unite with typ
high spaces, quadrats, and ntilizing lines igh spqces, quadrats, and untilizing t lines, corresponding to, an
when et ep on a level, with the surface of the typc of producing stereotype plates adapted for subsequent ornamenta
ion. Third, The ombination of the type previously described as bas
rolier type, with plain surtace intaglio) tvoe, for the purpose of pro
ducing illuminated and pol Fourth I claim and polvenromatic effoct with fyured-surface the cilimbing liation of plain-surface intaglio types
vith ornamented utilizing inured surface in'aglio types ith or namented utilizing ines, br which is produced a new and use Fifth, I cialm the artistic dissection of any nictor al or decorative

 to reproduced trom the wholer typo-pictorial subject, substantia lly
as and for the purpose.s set forth. 53.588,-Axle Box.-D. H. Dotterer, Ihiladelphia, Pa. I clatm, First, Fitting the sections or nacking or a journal box in
such manner that tiey may be adjusted from the outside or the
bux substantilly as Second, e.estruc dy a sectional packing, o D. so $t$ at the section
 53,589.-Pen for Weaning Calves.--J. B. Dow, Daven port, Iowa. 3,590 .-Process for $\Lambda$ malgamating Gold, Etc.-F. N. Du I claim
If saim tapuse of an amalgam of gold and mercury, substantialiy
forth.
53,591.-Churn.-Daniel Dunton, Brooklyn, N. Y.:
I claim the rotary, dasher. 1 , constructed with an open center, suh
santially as shown, in combination "ith the plates or gatherers stantially as shown, in combination "ith the platesor gatherers, e e,
all arranged substantially in the manner as and for the purpose
specifled.
53,592.-Cultivator.-Solomon Dwight, Rockford, Ill. Ieces, the adjustable rear and middle cross beams, the adjustable side pieces, the adjustable rear and middle cross heams, the adjustable
handles, the swivelling plows, nnd the vielding-spring corn guard
when constructed, arra nged, and operating as described 53,593.-Railway Switch.-Stephen A. Emery and Fred ${ }_{\mathrm{Wa}}$ erick $\Lambda$. Prin ce, Portland, Maine:
We claim. First, The peculiar c.nstruction of the lever, $d$, with
wings, in manner above decrilite or their equivalents.
Second, the peculiar connection with shoulder, r. and kev, in, ind drop lit adjustment manner above described, or the ir equivalents.
Thind, the combination and use ot lever, Dith with ever. fin in con-
nanneer above described of a car or locomotive operating in th 53,591.-Apparatus for Draining Cellars.-Augustus F Erich, Baltimore, Md.:
I claim, First, The combination with the stationary vescel, A, pro
vided with a piop leading from the hydr nt or other water sunply and with a discharge pipe. of the air-conducing pine, E, vessel, H
discharge pipe or pives, $\mathrm{H} \mathbf{H}$, and float, I , subs'antiall as and for the purposes set forth.
Second, I claim the combination of the spring, $K$, with the cock
 53,595.-Medicine.-W. H. Farnham, Sparta, Wis. C.aim the medical compound if the several ingredionts mixed
together or in about the proporions stated, and for the purpos
ppecified. pecifie
53,596.-Steam Engine.-Isaac Ferris, Cincinnati,
Uhio:
 be manter, and for the purpose set forth.
second, In this connec ion the arrant emen of the parts. N R 53,597.- Mash Machine.-.Jacob T. Forrer, Peoria, Ill First, I clainu the combination of the shaft, (i, ur:(ipost, $D$, with second, he combination of the shat, , , with the shatt, (i, nost,
$n$, and tub, $A$, substantially as described and for the purpose set
 Fourth, The combination of the cap or casing, o, with the shafts,
G and B, and with thic post, D, substantia ly as described and for
the purpose set forth 53,598.-Grinding Cylinders of Pajper Engines.-Clinton T. Frost, Medfield, Mass.:

I claim the applicution of the grinding plates, a. to the cylinde
of naper engines it. such mannur that they myy be moved out may require, as hereinbefore explained.
I also cliim the p culiar construction and arrangement of th plate, a. and its suoport, b, that is with the lip, e. and groover, if $f$,
substantially in the manner and for the purpose as above de 53,599.-Rock Drill.-George P. Ganster, New York First, ic
First, 1 claim the combination and ar rangement of the filer, $C$,
rat het wheel. D, pawl,
 struction substant.allv as herenu described. I claim the elasti
rrooved roller. J, constructed and operating in the manner and grooved roller. J, constr
the purposes set forth. 53,600.-Brick Machine.-John George and Henry
Hague, Jackson, Mich.:
We claim the attaching of the grinding or tempering arms, J, of
the pag inill of a brick press to a tubular bar shaft, Fif fited loosely
on the bhalt, B, whic, lias the eresser ant ached and drivns sald


33,601.-Shutter and Blind Fastening.-Charles H. Gil man, Portland, Me.
 53,602 .-Rock Drill.-Lucius M. Gilmore, Janesville I claiin the drill or built tool, P , when constructed and arrange 53,603.-Grinding Mill.-Solomon Godfrey, Peoria, Ill.: I, waim the wombination or the openings. D , and Li, and the fang or the purpose described.
53,30t--Washing Machine.-J. T. Greenwood, Sen., Be
loit, Wis. Antedated March 13, 1866.


53,605.-Stovepipe Damper.-Demas L. Grover, Groton,
 pose specitid
Second. 1 cla
Second, 1 claim the handle, E, and the connecting pin, H, When
construced and arranged in counbination with the plates and sup ports so as to operate in the manner descibed
3,606.-Filtering Apparatus.-John P. Gruber, New
Firs. I claine tie comblnation of an exhasting and forcing air



33,607.-Railroad Station Indlcator.-Parson E. and John P. Gruger. Lancaster, Pa.
 ratchets, $\mathrm{B}^{\prime}$ B2. on the same e hart. 0 that carries the cog wheel, A
whenai.

53,608.-Pihotography.-C. A. Guil nette (assignor to himself and George P. Towle), Boston, Mass.
 lorming parr of such photograph, by means of a cardo or rablet hat

53,609 -Rotary Blower.-Frederick Hainsworth, Chi cago, III.:
Franged ind per inm in cumbination therevith, the hollow shaf or tube With the remov, ble
53,610 . - Preparing Timber for Cutting 'into Veneers. homas Han y, Elua, N. Y.
 or vats of water, substantialy as anen
ธ3,611. - Hominy Mill.- James Hayden, Philadelphia Pa.:
shirst, Ic:aim the combination of the adjustable, slide, w, with the
 ilates, , for reezuiating the discharye oit the eorn through the open. Third, Cossructing the sots, 1, or the cylindrical pieces, H, witb
cuting edges. $m$, for removing a portion of the hull from the

 escribed and for
 ,
63,612.-Vulcanizing Vessels for Dentists' Use.-George E. Hayes, Bufialo, N. Y.:
nn er linius, substantalily as hlererein spectifed an outer shereby on the and an ining seing corroded turough sseam may escape between it and the stell, 53,613.-Steam Engine.-William M. Henderson, Phila detphia, Pa.: der in such manuer thar the roof of the matiu steam ports is iormed
By the bottom of the valve chest, in the manner and for th: pur poses reprrtented The connection of troo piston heads in a cylindrical valre
 Pare parpose stiecitied

 53,614.-Hay and Straw Cutter.-William Henshaw Spencer, Mass.:
manuer descrived, ant slown knif tre drame, o, made in the peculia

 Fourth. The combranion with the front end of frame, $\mathbf{G}$, of the statitu. The combnation with the frame riece, J Jof the arm, $F$, and
table. $K$, when cast together, as slo G, and koiie, d, as and for the purpooies set forth s g, with frame 53,615.- Paper Bosom Machine.-Sylvester B. Hill, st, 1 clisiu forming
the preparect paper through or between roliers, constructed eub stantially asafa tor the purpose set torth
 as se. Horthe combination of an ornamented sectional roller with a
Throd The
solid roller, and tlux torming ornamental paper slluri $\begin{aligned} & \text { ovems, ana }\end{aligned}$
 paper shir tosom, mate subzaillialy in the man.
$53,616$. Fence.-W. D. Hillis, Elgin. Ill.:
s, as described


Third, I claim the mode of fatening the stringers, by means of
their
descriete eunds in the 53,617.-Steam Generator.-Birdsill Holly, Lockport
 , substantially ic with the furnace, $B$, flues, $d$, and water jacko 58,618 .-Stave Machine.-Albert H. Hook, New York Cits
Iclaim the clamp so constructel as to enable the jointing too and the howelint, crozing and cliamering to ts to periorm their
anficupon the stave. withour rempring the etav from the clamp otitice upon the
said clamp bin
here in set tortil
53,619. --Button Hole Cutter.-James $\Lambda$. and Henry A. Fir t. I claim the bidgeport, Conn.
cutter, substantially as de siecond, The cominnation of tho axially adjustable cutter in on aw or the pliers. with the adj. 1stable plate in the oth r jaw of the
ohiers, when both a e remo raile, to cut button holes of vary substantialls as set forth
53,620.-Folding Bedstead.-Tyler Howe, Cambridge port Mass.
 pecified. 3,621.-Water Elevator.-Edwin Hoyt, Stamford First, I clai
an ${ }^{2}$ crank, , constructed a. d arranged sub, tantially as described.
second Thie brake, c . on the end ot the crank
F, in combination with the friction wheel. D pin, E, end plate, B, and windlass, A,

 aurey po. ititen for
tanly an specifeel.
Fourth.
ndi inclinedas as hown, subsstantially as and tor the frution wose specifile

 derank
crant
53,622.-Pen.-Thomas S. Hudson, East Cambridge 53,02.-T
 he cairies, as set forth.'
3,623. -Lamp Burner.-James G. Hunt, Cincinnati First. I
 se cond, The construction, arrangement and combination of the
 Third, The wood buitun. P. in combination with the wicls ad 3 ${ }^{2}$ 1-Brom
$53,624 .-$ Broom Head. John E. Hunter, Mechanics
1 claim the construction of the case for reciving the broin corn
In combination with the toothe jams or
rin
and for tho purpoee eet forth.
53,625.-Process for Making Stecl.-Thomas H. Jenkins, New York City:
malleabie castirion, which has been suh jected while in the heate neltug it in admixture with wrousht iron in $a$ a crucible or equiva 53,626.-Washing Machine.-Watson Kenderdine, Lumberville, Pa
First, I claim the combination of 'he rotrary cyllinder. A, witb it
surface of cone-shaped luted rollers, C , and the adjustable concave
 rods $N$ and L , and cros; bar, M , or their cquivalents, substantially 53,627. - Stop Cock.-Martin C. Kilgore, Washington lowa:

 box of solt metal havial
broove or $V$ in the phly.

## 53,628.-Suspended.

53,629.-Blow Pipe.-N. W. Kingsley, New York City
 53,630 .-Piston for Deep Well Pumps.-Elisha Y. Knee land, Buffilo, N. Y
 purposes and substantialy as oescrive tire or more leather packit:
 Niston are sereverd topectier, the rans will be weces ively pressee 53,631... Process for Molding Articles from Paper Pulp I.Edward H. Kinight, Washington, D. C.

In thies process ot inanipult ting piper pulp and in combinat:on
with the furner, postessivg the tuescribed lunctional char acter.
I clair an air torcing or exliausting device, operating substan
Iclaim in combination with former. construct od to operate sub
tantially as described, an enstic hollow handie proviled with

 ormer inn co.
53,632.-Chamber Bucket.-Wm. W. Knight, Phila-
 53,633.-Fluting Machine.-Susan Knox and W. D Corrister, New York City:
 53,634-Portable Feed Rack-Casper W. Lamb, Co lumbia City, Ind.

53,635.-Seed Planter.-James N. Lane, Bethel, Ky.



53,636.-Purifying Isinglass.-Jesse Lewis and Isaac
Stanwood, Gloucester, Mass. , Mass.
 orth.
13,637.-Hinge.-John R. Lomas, West Hayen, Conn. I claim a hinge constructed substantially as berein set for
53,638 .-Tag Needle.-Uscar Low, Chelsea Mass: f clai m my imporved tagn needere, matle substantially in the manner
and tor the purpose as above set forth 53,630.-Car Coupling.-Alpheus 4. Lusk and Samuel
A. Wells, Wooster Ohio $\underset{\text { We cli }}{\text { Al }}$
We elaim a prujection atthe eye of the hook to prevent it from
ralling entrely back so that it will couple in any position.
53,640. - Manufacture of Steel for Safes.-Walter K.
Marvin, New York City: c:aim as new Now City:
 pounded in the manner and proportions herein efore set forth.
second, rhe construction or sore boxes, vaut doors and othe burf sar proof siructures by ast.ng 53,641.-Distilling Pine Wood.-James $\Lambda$. Mattocks, Swaneboro, NC .
 53,6+2. - Machine for Cutting and Stoning Peaches.First, I
 operating sinbstantially in the manner described each other and specified.
53,643.- Manufacture of Hard Rubber.-Charles McBurney, Roxbury, Mass.:
I claum the use of waste rubber tor the production of hard. rubber
53,644.-Flour Sifter.-William C. McGill, Cincimati, Ohio:
 53,645.-Soap Mold. John McRoberts, New Orleans, I claim the mold constructed of two parts, $G$ II, or $v$, form in the!
ranserse spection and placed in an inclined position so that baid parts, when in contact, will form a rectangular bos having an in
pined position and resting on nine angle or crown, the upper part


53,646.-Bleaching Stained Cotton.-James A. Meany Claim the erocess of cleaning and hleachings sraincd cotton by
 ind watit, in the troportions and manncr suvotantially as herei 53,647.-Machinery for Shaving Wood Screws.-Dustin F. Mellen, New York City. Antedated, March 14

1866
Tt claiu the inclined hoppra riaving a channel of polyzunal form
at
 seribed.
ralaso claim the crlinder, ty , gronved as herein specifined, and the Ialso claim the curved spont, 5 . and spring inws. z. for delivering I also claim the feed arm, a, and the apparatus connected there with, for reciving the screm blank from the jaws, , and delivering it

 53,648.-Machine for Nicking Screws.-Dustin F. Mel len, New York City. intedated March 21,1866 : cepp. p , emploved with the feeding apparatus as deecribed for
eeeding the crew blans to the rippos In also claim the gaze plate s, to do termine the exact radial pro jection ot the serer blank rom the face of the dease when brought
to the cutter in combination with tre gripping dies, c. here. n de seribed. claim the ribrating adiustable frame, 1 , in combination
 ratclinet
specified
53,649-Handle for Milk Cans, Etc.-Charles Miller Utica, N. Y.:
 53,650. - Machine for Cutting Files.-George Miller, I claim. First, T, cic combination and arrangement of the chise




53,651.--Railway Signal.-Patrick Francis Milligan 53,651.-Railway
Washington, D. ©

 53,652 . - Washing Machine.-Henry C. Moody, Fulton, ${ }_{\text {I claim }}{ }^{\text {Y }}$

53,653.-Harvester Rake.-C. Moul, Hanover. Pa.
 second, Gliviny anintermittent osciliating motion to eacl one o

 plane surface. t2, or thin toothe begment Le ad the that surface

 53,654.- Broom Head.-Jacob H. Mumma, Harrisburgh, Pa. : :
claim the combination of the jaws,


 53,655.-Stopper for Bottles.-L. B. Myers, Elmore, Ohio: © 1 : crst, The discharge spout. A. constructed substantlally

 53,656.-Method of Deodorizing Petroleum.-Robert 656.-Method of Deodo
Newall, Marieta, Mio:
claim deodorizing petruleum,

I claim deodorizing petroleum, and other hydro carbons hy treat-
ing and
Iime sond
Fimp
 53,657.-Press.- William Norman, New York City:

53,658.-Apparatus for Refining Iron.-John W. Nys-
trom, Philadelphia, Pa . trom, Philadelphia, Pa. :
First, I llatim the herein, described methad of an apparatus for









 of the ingot molding oith the inside of the the converting vessel and also
and fire cliy or plumbago, co desescriben.
53 659. -Stopper for Jars and Bottles.-Thomas O. Oli$1 \begin{gathered}\text { Ver, New York City } \\ \text { che combination of }\end{gathered}$

53,660.- Horse Hay Fork.-John K. O'Neil, Kingston, N. Y.:
 citied alio claim the arrangement and combination of the operating
tackle and angular reverin such a manner as to shitt

 53,j61.- Machine for Blocking and Shaping Hats.George Usterheld and RudolfEickemeyer, Yonkers, N. Y.:
irstian the bendin. .hell, H, applied and onerationg in
ond



 and the holuing plates as to produce the over.tretching of the hat


 53,662. - Implement for Setting out Plants.-Edmund 3,662. - Implement for Setting out
W. Packer, Paulsborough, N. J.:
 53,663.-Cultivator. -C. S. Pangborn and George w

We claim 'the comuination of the treadlos, $L \mathrm{~L}$, plow beams, G

53,664.-Horse Power.-George Partridge, St. Louis, We claim the master wheel, B, and ameep. Co attached :o the


 53,665.-Weft Bobbin.-Oliver Pearl, Lawrence, Mass. In ciaiat the combination of the enlarged, or oubbous end of a fill
ing bobin with the barrel of the bobbu, as herein described and

 63,666.-Dental Vulcanizing Heater.-D. J. Peer, Rochester, N. Y.:
 construcied, , arranged and operating sumpeantig, sill in the mannel
and for the purposes herein
Ehown and described. 53,667. - Vulcanizing Flask.-D. J. Peer, Rochester,
 ing substan
described.
53,668.-Secondary
Brooklyn, N. Y. Anectric Pile.-Geo. Gedated Marclı 9,1866 : Percival I claim the torming of the elecircules of a seeondary pile of 1 , yers of gas carben or some other coundroting
of the purpoe liereinbefore descitited,
53,669.- Electrical Lamp - Geo. G. Percival, Brooklyn,

 soribed.


53,670.-Sawing Machine.-Charles L. Pierce, Buffalo, I claim supporting a drag saw bar, A, at Its rear en J bva rocking
sind bar. © whose axis is is line with the axis of the drving crank,
 With the ériving crank and sloted cross Head, in the manter and tu
the purpose est forth.
 tiallv as described.
 53,671.-Spring Lever Clasp.-Gustavus D. Pike, Chath am, Conn.
I claim the emplovment of the spring lever, 2 , and the ears, d d
and the teet, EEE , or ther eq ivaleats, combined with th? strap
 53,672.-Tree Protector.-Joseph L. Piper, Winthrop, I claim the sait improved tree protector, as made, of the platform

 and for holding the plates of glass, as specifee. 53,673.-Railway Frog.-Peter Quinn, Philadelphia Pa.:
I claim a roo railor rails adapted to tha main rails of a railroad
and to those or turnout. and operating substantially as and for the purpose herein see forth.
53,664.-Railway Switch.-Peter Quinn, Philadelphia,

 cars from the main track to the turn-out, all as set forth.
53,675 .-Combtned Switch and Frog for Railways. 53,675.-CombIned Switch and Fro
Peter Quinn, Philadelphia. Pa.:
I claim the combination, substantial ', yas described, of the mova-
le
froo rail $G$, arranged to resi on one or the main rails with any uitableswitch rails, the whole operating together as set forth.
53,676. - Water Elevator.-Geo. Race, Norwich, Conn.: Frrst I. C.am a m water e elevatir baving as supplementary iram
operated and constructec as shown and described Second, II combination with uiee supplemental frame. I claim the
svitem of gearing, as shown, and so auranged and operat d that
 Srake lever, the hand rest, tue spring pawl, and the ajdustable tric
tion band, all constructed and arranged as described and lor the purpose set forth
53,677.-Cooler for Brewing and Distilling.-Ludwig




 53,679. - Lamp Extinguitsher.-Wm. A. Richardson and
 berein sec tirth, for the purposo specified, the lowe parts of the said wings, r, for the purpose or holaing them ap
dessribed until the elame is to be extinguisbed.
This
 Fourt, The catcon, w, in combiration with the ar, trs, 53,680 .-Cut-off Valve Gear.-John T. Rich, Philadelphia:


 , substantially as set forth. T, toggle ioint, $\mathbf{E}$, baz, $m$, hink, $\mathbf{L}$, and

 53,681.-Bag Holder.-S. S. Rockwell; Lansing, Mich.

53,68.-Apparatus for Cooling Beer.-William Rose,
St. Louis, Mo.
I caim the process of forcing air through the liquid, thus bripg
ing the iiquid
and cose 53,683. - Lathe Chuck.-Richard Rothwell I claim than conical-shaped lathe chuck, a, havin, aseries of lon-
gitudinal grooves or depressions, d d upon its periphery, substan gitudinal grooves or depressions, $d$ d ,
tialy as and tor the purp ose speci fed.
53,684 .-Tackle for Raising Sunken Whales and othe Bodies.-Thos. Welcome Roys, New York City :
 thocks, substantially as shown and described. vith ihe said prong or springs, as above, substantialy in the .
 subta. tially ringse on endiess mando, the and suspender braces, E ,
cribe
53,685.-Fruit Jar.-George H. Russell, Dickinson, Pa. First. I claime forming one or more inclined ways ur planes, with
notehes at their lowest points upou the cover ot a fruit jar. can or

 53,686.-Boring Artesian Wells.-Anton Saffer, New Flist, I claim





 chani,m ror well borins, sulustantially as herein set torth.
Filth

 53,687.-Sound-boards to Pianos.-P. Schulor, Philadelphia, Pa.:
I claim the application of a metallic plate, E , constructed sub.
statiall yan described, to the underside and airectly beneath
the
 53, 688.-Tanning.-Judson Schultz, Ellenville, N. Y.:
I claim the reating of hudes or skins with saw dhst, substantialls I claim the reating of hides or skins with saw dist, substantially 53,689-Shoe Brush.-H. E. Scotchmer, Chicago, IIl.
 hax, arran
described.
53,690.-Mold for Casting Flanged Pipe.-George T
I clain the use and applination oo the squaring blocks, D. . and
the cores, f. for the purpose of squa, ing or finishing the ends. o anged pipes and forming the bolt holes, in the process of casing
the same,
eub tantially as specifled 53,691.-Skeleton Skirt.-S. J. Sherman, Brooklyn, First. I ciaim the mithin-described hinge iolnt on the ends of the hoopg, the same being rigid in ine vertical direction, and adapted to
yield inwardily.but prevente:
rrom ing the one part past the axis of the joint on oas tobeararapenst the
other tart, substantilly in the manner aud tor the purposes here.
int

 53,692.-Beer Faucet.-Emil Sirret, Buffalo, N. Y.
I claim forming beer or orther liqqiids any degree desired previnus
to their being dr : wn, by cinstructiug a hollow room or reesr rois Within an ordinary faicet between the choss pin and he end to be
tapped in tide barrell to be poerated into by the syringe, E, tor the
purpose and in the maner set 53,693.-Sirup Filter. -James L. Smith, Tuscola, Ill:: I claim the arrangement of sieves. D and B , the bood Mn. ith
 53.694. $\mathrm{Y}^{\text {Threshing Machine.-John P. : mith, Hudson, }}$ Frrst, Y Cliaim the concave provided with semt-spheroidal projec-
tions or chreshing teeth, n , substantially as and tor the purpose

 ibbed threshing cyinder, , ind the concare, D, substantialiy as
hercin described, whereby special feedingcontrivanc: 8 are dispensed
with. $\substack{\text { herecin } \\ \text { with } \\ 53,695}$
53,695.-Process of Generating Gases to be Used for
Motive Power.-Daniel
E. Somes, Washington,

 53,696.-Machine for Stripping Surrhum.-John M. Spen-
 53,697.-Laundry Stove.-Horatio Squyer, Rochester I claim the combination and relative arrangement of the furnace, ,
 53,698.-Spoke Shave.-John G. Steiger, Cleveland I clamio the special construction of the cast handie and clamp with the hatulder, b, formed between the clampand and the handle blade, B , and 53,699.-Piping for Boots and Shoes.-Charles Stone I claim as a new articie of manufacture, a piping or biuding for boots
nd thos, having a rounded edge or neariy so, substantially as de-63,700.-Telegraph Cable.-James Story, Paris, Ky

 equivalent substances in combination with a stee plate ore support
and take the tension off from the insulated conducting wires in




 chambers, constructed substantially as and for the purposes he
specined.
53 , Rail roadRail.-Zadok Street, Salem Ohio:
53,701.-Rail roadRail.- Zadok Street, Salem Ohio:
 53,702. - Umbrella.- George Styles, New York City:


53,703.-Curtain Flxture.-John B. Tarr, Chicago, $\mathrm{Hl}_{\mathrm{B}}$ :
 53705 Mop Head
33,705.-Mop Head.-Levi H. Thomas, Waterbury, Vt.:
 53,704.-Clothes Drier.-Samuel I. Trask, Guilford,
 ganner and for the purpose set forth.
meocn, The combination with the sad side frames, constructed


53，706．－Bed Bottom．－Edward W．Tweker，Lowell， IMich，First．The har，H．．Mith cors，a a and rack bars，b b，
when arranged in the manner and for the elevating or lowering the
 53，707．－Slide Valve for Steam Engines．－Reuben D． Turner，New York City：

53，708．－Balance Slide Valve．－A．E．Vanbebber，A．
Salle and and Britton，Fulton Inl．


sacond，The combination of the sprins $G$ ，and temper screw，$I$ ，as
 53，709．－Burning Fluid．－Aaron C．Vaughan，Rains burg，Pa．：
 Second，A burn no for ford composed of benzine treated with resin
and mixed with ordinary illuminating ofll，as set torth． 53，710．－Corn Harvester－－J．M．Wallis and Elias Miller，Milton，Iowa．：
in relation with the the arms，$J$ ，substantially as and for the purpose pecited．
53,711 ．
53，711．－Construction of Pulleys．－A．Warth，Stapleton，


 or the purpose described．
53，712．－Egg Holder．－Franz Wegrather，Chicago，Ill．：
 53，713．－Harvesting Machine．－Thomas Welch，Church－

 Crithird，Seouring the head or case．A，and boxes，$b$ and $b^{\prime}$ ，to the
crank pin． 0 ，of harvesters，by ．ineans oit the groove $c$ ，ani rib，$e$ ，
 53，714．－Ladies＇Fon．－Thomas Welham，Washington， Firit，I ciain
 Second．So pivoty ng saisil fan an to permit it to revolve upon the
hande，whether fixed an line with the handle or set at any angle

 the weighted
as describeu．
53，715．－Boring Artesian Wells．－Daniel Wheeler，
 Brivanee，working substanially as described．
 described
53，716．－Roofing Cement．－Warren P．Wheeler，Water－ loo，N．Y．：
 53，717．－Belted Friction Gearing．－James D．Whelpley Boston，Mass．：
 53，718．－Apparatus for separating Ores．James D Whelpley and Jacob J．Storer，Boston，Mass．：





53，719．－Scissors．－Luther G．White，Waterbury，Conn．
 53，720．－Smut Machine．－S．B．Williams，Wheeling， I claim the ．：


 erned by the regulator，co
ent
dust in the fan case below．
53，721．－Steam Gage．－Charles A．Wilson，Cincinnati， Ohio：

 63，722．－Hollow auger．－Arcalous Wyckoff，Elmira， N．Y．：
 purpose set Porth．
$53,723 .-$ Postage and Revenue stamps．－William C． Wyckoff，Brooklyn，N．Y．：
I claim coating the side of the paper winicl is to receive the print ment or patnt，or some sufficiently opaque or non trankparent mut face as to receive a good impresssion from typos or orpates．and aut at
the same time be seluble in water or other fuid，substantially as de－
scribed． 53，724．－Stove Blacking Cutter．－William W．Arming ton，Meriden，Conn．，assignor to himself and Stephen L．Usher，New Haven，Conn：


53，725．－Saw－grinding Machine．－John G．Bake
signor to Henry First，f claim the cumnination with a arindstone．Jot a segment， ibrating motion in the arc of a circle baving a tixed center is im
parted by the menanism described，or any equivalent to the same or the parpose specits
Second，The combinition
Second，The combination of the rock shat， A ，rods， d d，s－gment
G．or the nuts．fi，or their equivalents，for adjusting the said seg
ment
E ，Third The combination of the reversible，pulley， F ，belt or band，
 being arranged for the retention and releasestot the sa wh blade，sub
stantially as and for the purpose herein set forth．


 Seventh，The serew hant p，NoNe having threads of diffrent
piches，those of one pitch controling the position of the grindston
 deerie．al．
set torth．
53，726．－Check Hook．－Charles A．Ball（assignor to him I claim the spring－check rein honk attached to the

53，727．－Curtain Fixture．－John H．Barnes and Thomas We claim the described device for holding and tightening the
cords ot window shades，etc，corsisting of the plate．$A$ ，with the hook，B．or is equivale
bing so a rranged as to lave motion up and down p pon the serem by which they are held to the casing，
53，728．－Keyboard tor Organs，Etc．－Moritz Baumgar－ en（assignor to himself，Jacob Heller，G．C．Clark， A．S．Keeler，and Morris Steinhart），New Haven， Conn．
I claym constructing and combining two banks or kers，substan－
tially in the manner and for the purpose herein set forth，
53，729．－Inkstand．－Hezekiah Bradford（assignor to
Horatio Bogert），New York City．Antedated March Hist， 1 Iclaim a stationary corkor yielding stopper with or with

 stopper＇in the boitom or the inkstand as set forth，whereby the
fountain may be filled when the inkstand is inverted，as speciled 53，730．－Clamp Pulley．－Rufus Chandler，Springfield， Mass．，
I claiu a a c：amp pulley having sections，A and B．wit hdove－ta
connt ctions therewitb，as deecribed and a
 53，731．－Rotary Steam Engine．－John Collicott（as－ signorto self and Otis Marshall），Boston，Mass．：



 described
53，732．－Cooking Stove．－John B．Crowley（assignor to First，I claim a Are back of a

 with a center plate，periorated at to midale portion，substo tially Third A stand or rest having a circular or other symmetrieal
head which fits a corresponding view on the under side of the cen


53，733．－Horse Shoe Calking Vise．－William Delano
（assignor to self and Walter H．Foster），Bangor，
（assignor to self and Walter H．Foster），Bargor，
I claim the new or improved hrse shoe calking vise，made
ubstantially as describec，viz．，of the vibratory bearer or patae．$G$ ，
 53，734．－Corset Busk Clasp．－William Devines，Brook－
lyn，N．Y．，assignor to Howell Smith，New York City：N．Y．，assignor to Howell Smith，New York I claim the attaching of hooks and eves to garments by means
of clamps．constructed and arranged to itiover anj catch into siots

53，735．－Grain Separator．－J．H．Falrchild，East High gate，Vt．，assignor to self and George $L$ ．Haywood

 53，736．－Hydrant Stop Cock－Henry L．Frailey（as－ Signor to self and Christian G．Herr），Lancaste I claim
pipes，D＇${ }^{\text {，}}$ ，Fop copeck，the barrel，c，of which is provided with thre
 33，737．－Ditching Machine．－Conrad Freese，Aurelius，
N． Y. ，assignor to self and Frederic H．＇Lyon，Ca－
yuga：


 and pilted bar，R，or their equivalents，for the purpose of adjusting
the digger to its work，substantially as de decribed．
 a，between them，provided with cuttere，$e$ ，at their outer ends an
with bent inner ends，f．
53，738．－Bench Vise，－Richard Jones（assignor to self


53，739．－Hay 「preader．－Luke L．Knight，Barre，Mass， assignor to J．E．Taylor，Sutton，Mass．：
 53，740－Harvester Rare D． field，Niagara，N．Y．，assignor to Dayton，Wheat gan，Rockford，N．Y．：${ }^{\text {assignor }}$（o Dayton S．Mor reel ribs to to combe，the thaion in a harvester of treth or or orushes on the plato sweep rake to remove th theretrom，the combination belng and oper 53，741．－Leather Splitting Machine．－J．A．Marden assignor to Samuel Vance and Albert E．Currier im the rotation coling



 recifrocatitg knife，endless apron，pressure shoes and pressecter bar
substantall
53,742 ．－Process tor Desulphurizing Ores．－Melchor B．
Mining and Ore Desulphurizing Company： Ientaimaine substance．with puiverized or disin tegrated ore in raw condition，preparatory to the calcination therect，all substan
tially in the manner and for the purp so hereln Bee forth． 53，743．－Sewing Machine．－James S．McCurdy，Bridge
port，Conn．，assignor to Elias Howe，Jr．，Fairfleld Conn



别
Third．I claim the lever－like fingers， p ，fulcrum， $\mathrm{p}^{\prime}$ ，spring， s ，and
irregular shaped track， r ，in combation with eain other and With the shutlee rate and shuttle，substantially as and for the pur－ Fourth I cleaime the elpgle－grooved triction roller，T，spring，O
and guide，w．applied in combtnation，and operating substautially as and or the purpo e ehereng spesitifed．driving wheel or pulley to substantalal
 53，744．－Griddle Cake Baker．－Jonas Mull（assignor to
self，Ara D．Reed and J．R Calkins），Troy I claim tho emplovenent of the inward and annuarar or surrounding
tange or propection，$A$ ，of the surrounding rim，$A$ ，and its
combination
 I Also claim the employment of the annnlar or surrounding chamber


53，745－Knob Latch．－Wallace T．Munger（assignor to

 53，746．－Machine for winding Yarns．－William Orr，Jr
（assignor to himself and William Orr，Senr．），Clin （assignor to himself and William Orr，Senr．），Clin
ton，\＃tass．： First．I Iclaim in machines for winding yarn，hanging the ewift on
pivot at one side of the center of it leneth．or at one side of its center of




53，747．－Machine for Holding and Grinding Edge Tools．－ John Richardson（assignor to himself and Edwin Fer I claim the improved machine constructed as herein before described requiring a like bevel，and any tool having an angular edge of like be vel，
perfectly true and with entire accuracy to any bevel required，either
俍

3，748．－Water Can for Railroad Cars．－Leon T．Riche assionor to himself and Isaac $L$ ．Allen），New York City
First，I claim the employment of the waste or unclean water chamber L．in combination with the verucal connecting tube，K，and receptacle or
box．$J$ each being constructeel and arranged in the manner，and for the
purposes sustantiall purposes substantially as heremn described and set forth．
Second，I claim the employment of the discharge water valve， $\mathbf{D}$ ．in combination with the discharge pipe，C，and with the valve chamber Soses subst antially as herein described and set forth．
Third，I claim the employment of the coil or spiral spring， E, in com
bination with the valve bination with the valve rod，d，upper connecing rod，F，lever，$G$
humb piec，H，and with the tube E ，each being constr ucted and ar
ranged in the manner and for the purposes substantianlly as herein de． 53，749．－Attachment in Plows．－Milton Roberts，S Pauls，Minnesota，assignor to himself and Nathan H First，I claim the attaching of the plow to
First，I claim the attaching of the plow to the axle and wheels，in the Second，Ialso claim the rod J，，pivoted to the axle，A，and provided
with a hook，I，it it outer end in combition wilh the plow and the
wheels and axle，substantially as and for the purpose specifed wheels and a ale sio substantially as and for the purpose specified．${ }^{\text {and }}$ the
Third．I also claim the wheel． $\mathbf{B}$ ，provided with the concave flange，$K$ Fourth，I further claim the rollers，N，placed in the frame，M，having
He rods，O，O，attazhed in combination with the plow and the wheeld nd axle，substantially as and for the purpose spectified． 53，750．－Pump．－H．M．Stoker（assignor to himself and
J．C．Stoker），Watson，Illinois ： I claim the reciprocarng pump cylinder，B，in combination with th r secure 1 within the pump cylinder，and provided with the opening an valve with the edruction or foree tube，G，communicaung
ings，substantially as and for the purpose herein set forth．
53，751．－Sheet－Metal Can．－George F．Stone（assigno I claim the disk，A，which formsthe end of a tinned

53．752．－Hand Corn－Planter．－Salmon E．Tyler and Rich Simons）Anota Minnesot Simons），Anoka，Minnesota：
We claim the reciprocating head， E ，
the adjustable recessed cylinder, D, graduating the grooves, jJ in con-
yection with the set.screw, H, when constructed substantialy as herein nection with the eet.scr
set forth and described.
53,753.-Cntton Gin.-Edward Alfred Cowper, Westmin ster, Great Brittin:


 53,754 - Paring, Cutting and Coring Machine - Villiam
 First. I a aram the curved serrated plate, e, in combination wita Secon'. The box, A, receptacle, A' tubes, J J' and K. and plates,
, the whole be ng arranged us and for the purpose described.
53,755.-Rntary Engine.-Robert D. Wright (assigner to himself nnd I. B. Holland), St. Louis, Mo. Antedate March 21,1866
I claim the emilloyment of the plunge, $b$, in combination with the roarry piston, c f. All
ially as here. n described and $\mathbf{r}$ apresented for the purposes set forth.
53,756-Means of Protecting the Bottoms of Ships.Cowper Phipns Colea,
in England May 21, 186
 liable to be submereod, with cement, hy meank of holding agents, the
whole being combined, and operating suistantlally, as set forth. 53,757.-Fire Alarm.-Charles Dion, Montreal, Canada East:
I claim the spring, A. plate or tube. B, or other equiveslents, as shown
In the different modifications, in combination with the tilting lever, $D$, or
 struncted and operating suhstantially ss and for the purnose described
3,758. Compresed Gas Generator.-Jules Gros, Paris, France:
I claim the generator, d, provided with a revolving chambered cylin
 53,759.- Propelling and Steering Apparatus for Vessels.ented in England May 30, 1865:
I claim the apparatus for propelling and steering ressels, consistin within a morable case, secured to a hnl:ow shaft, the combination of the win, and case and ghats. being suhstintially
faneratinz substantially in the manner set forth.
opat
53,760 - Muff.-Moritz Mahler, Hungary, temporarily re siding in Montreal, Canada:
First, I claim the muff provided with a coverng of leather or other
suitable material, withont fur or hair on the side that comes next to the persin, ns and for the pur noses set forth.
Second, I elaim the mu fo formed wid pr the bottom than at the to Secind, In liam the mulif formed wid at the botom than at the to
prtions. simat ends may be an inclination, for the purposes and pas sneefified.
Thrid. I claim
Thind. I claim rings or loons attached to the upper part of the muff,
or the recention of the anspenaing cord, as set forth. Fourth I . liam a pocket formed in the front portion of the muff and
rovid to with a fan of shin or fur hanging from the top portion of the rovid ad with a flaln of shin or fur hanging from the top portion of the
nuff down over the front part of the same, as and for the purposes spe ified.
53,761.-Steam Generator.-Peter C. Moller, Leipsic den, Saxony
I claim the comhination of the cross-shaped blocks. Le water passages elatively to earh other in the manner and for the purposes herein re-
presented and described.
53,762.-Propeller for Vessels.-Ambroise Raphin, Paris, France:
I claim the fif-whel, C, mounted on two or more shats, B, secured to
the bull of a vessel. incombination with wor or more paraliel rods,
and bucketa ce, all constructed and operat ing substatially as and for he purpose described.
53,763.-Apparatus for Burning Liquid Hydro-Carbons.Alexander Schpakofsky and Nicholas Strange, St Petersburg, Russia
Petersburg, Re thas of, and apparatus for, burning the vapors of
We claim the methnt
tdrocarbon fuids, substantially as herein shown and dessribed.
53,764.-Car Coupling.-A. B. and Frank S. Taft, tempo March 21. 1866
We claim the shackle, $E$, prorlded with the shoulders, $d e$, and fitted in
 ate substantialiy as and for the purpose set forth.

## REISSUES.

2,217.-Process for Bleaching Fibrous Substances.-J. J. Eckel and Isaac S. Schnyler (assignees of Joseph Short), New York City. Patented Jand. 23, 1866 ,

orth.
Second, The cold alkaline solution, composed of liquid potassa and the
and water. ahout in the proportion as set forth.
Third. The bleaching liquid compound of chlide of lime, and sul
hric, 2,218.-Artificial Limb.-Anton Mennel, New York City Patented December 20, 1864:
I claim constrinting the shell of an artificial limb of two or more lay ers of wond, earh comnosed of one or more strips, placed crossways
each other, substantially in the manner and for the purpose herein set
forth.
2,219.-Mode of Lining Pipes with Tin.-W. Anthony Shaw, New York City. Patented March 10, 1863: First. I claim forming a dounte metallic pipe or tube out of any two orer, on or in a die. in such manner as to make each of said metals
orma tube or pipe the ne inge of the ether.
formander orer said man-
 ninget of mannifacture of lead pine with a lining of tin, by forcing 2.220.-Ruler.-S. L. Simpson, New York City. Pat ented June 27, 1865:
First. I claim the sortno-stoi, d, applied in combination with a valve
a, snbstantially as a nd for the purpnes set forth Second. The inde $x$. e, a nd scala. f in combination with the link, C, con-
necting the two narts of a paraliel ruler, sulstantially. as and for the
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## DESIGNS.

2,288.-Cuff and Collar.-William Bell, Jr., Boston, Mass.
,289-Alphabet Letters.--William H. Carter, Cin$=$ cinnati, Ohio.

Chicago, Ill.

2,291.-Clock Case.-William A. Giles, Chicago, Ill. 2,292.- Bust and Clock Case.-William A. Giles, Chi cago, Ill.
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