
issued from the u. S. Patent office for the week ending jan. 1, 1866
patents are granted for seventeen fears, the tollowing







60,658.-Fastening Sleigh Bells.-J. H. Abell, East Hampton, Conn.
 60,659.-Scaffold.-D. D. Adams, Brookline, Mass.
 constructed and arranged substantlally as described and for the parpose set
forth.
Second, The combination ot the braces, K,
ed as as described with each other and with the side bars, B , and front fonstruils, C ,
 60,660.-Apparatus for Coating Fabrics with Fluid or
Semi-Fluid Substances - George Adamson, Philadel-

Semi-Fluid Substances.-George Adamson, Philadel
phia, Pa.
 60,661.-Boat-detaching Apparatus.-N. B. Allen, New port, R. I.
I claim the hoobs, C, wbich are secured to the bars, A, or the ir equivalents'
Dose hend which are operated by the lever, B, substantally as and for the pur-
pose herein shown and described. 60,662.-Steam Generator.-W. D. Andrews, New York City.


 Whole is consiructed and arranged so as to operate substantialy in the man 60,663.-Ruling Paper by Ele
D. $\Lambda$ verell, New York City.
 ially a
60,664.-Cartridge Retractor for Breeche-toadivg Fire-

> Acturing Company), Windsor, Vt. frect I claim the carrer



 60,665.-Refrigerator.-G. A. Banta, New York City.

 holess so as to fow over the outside of a barrel or other vessel for cooling its
ligurico ontents, as setf
Third


 ing the refrigerator or opening it for effec. ing a circulation or the air
forth.
60,666 .-Grain Dryer.-A. H. C. Barber, Clinton, Ill. Irclaim the hollow rings, G, and connecting pipes, H, constructed as de-
scribed in ombinanation with each other and with the furnace of a drying kiln,
subtantially as described and for the purpose set forth. 60,667.-Peat Machine.-N. H. Barbour, New York City.
Antedated Dec. 21, 1866. Antedated Dec. 21,1866 .

 purgose esef forth
Tescribe, Hak ing the cam, $\mathbf{H}$, adjustable substantially as and for the purpose 60,668.-Grooved Wheel or Pulley.-John H. Barnes,
Brooklyn, N. Y. Antedated Dec. 2,1866.
 en trely eut away or removed, subs tantialy as described, so mo permit the
wheelor pulley to be cast or struck up, substantially as and for the purposes
set forth. 60,669.-SEWING Machine.-W. B. Bartram, Danbury, Conn.
 ned
ned oper relation to each other with out regard to the direction in which the
feing
 Third, Iclaim the adjustable tension cylinder, 0 , constructed and operating
subrant
Fourt The The cormhinatition of the eccentric groove in the pulley, L, the ring,
 Fiftn, The combination with a rectilinear feeding dog of a sewing machine,
the the tering nothene dever, $J$ and eccentric pin, 1 , substantially as and for
the purpose set forth. 60,670.-Capillary Material for Filling Gas and Air
Carburettors.-John A. Bassett, Salem, Mass. I claim an absorbent ant capillary m.terial for gas and air carburettors,
composed or the substance described and pre pared substantially in the man-
ner set forth.
60,671.-Means for Recovering Sunken Ships.-Ernest
Bazin, Paris, France. First, I claim the eqigan





 described and represented in Firss 9 and 10 , in combination with the embank
ment, $A$, substantially as described. 60,672.-Process for Glazing Paper.-Frederick Beck
New York City.
I claim the within-described process of treating paper w
stantially in the manner and for the purposes set iorth.
0,673.-Door Fastening.-Matthew Bennett, Kilbourne City, Wis.
I claim the combi
60,674.-Gas Burner and Reflector-Herman Berg and Andrew Blessing, Springfield, Mass.
I claim asa new article or manufacture, a gas burner, having a globular or
dome-shaped reflector arranged bet ween the lights of the same, substantially
as herein set forth. 60,675.-Sink--L. C. and M. C. Bignall, Medina, N. Y.
 square or rectangular top of the wooden support, and the rounded interio
corners, d, combined and arranged substantially as and tor the purpose se
forth-
 vided with the shelr, C, to form, in connection with said basin and its support,
B, a seat or bearing for the pump, when arranged substantially as set forth. 60,676.- Harvester.- Virgil U. Blanchard, Bridport, Vt.
 nection with the pinions, Ior $J$, or both, substautially asand for the purpos
set forth set forth, The clutches, G G' L L', and O O', when combined and arrange
second,
witiliding collars or slever, and with wariable or differential gearing, sub
stantiall as and for the purposc specitled.



 fron the axle, C or other sultable driv lng shant,
substantially 1 l the manner as herein set forth.
60,677.-Ventilator for Mining Shafts, Building, etc.-
Thomas Boyd, Cambridgeport, Mass,





 60,678.-Gate.-J. R. Breese, Middletown, N. Y
 60,679.-Furniture Polish and Restorer.-Geo. Bricker Sr. (assignor to himself and S. J. Irwin), Newville, Pa.
I claim a furniture polish or polish restorer compounded of an alcoholic so
 60,680.-Coal Oil Stove.-F. M. Brow
First, I claim the reversible heat deffector, E, arranged and operating sub
stantily

 ating substantially asand for the purpose set forth, $\mathbf{E}$, and plate, D , when a
 60,681.-Hand Pegging Machine.-J. Hamilton Brown Watertown, Mass.
I claim the plunger, F, made hollow for the reception of the spring, d , sub
stantial
a also y and





 60,682.-Sewing Machine.-L B. Bruen, New York City.


 Third, Remover, S, to withdraw the threads from the line of travel of the
hook, substantially as described.
60.683 . - Making Reamers. -Wm. Burlingame, Exeter, N. H 60,683.-MAKING ReAMERS.-Wm. Burlingame, Exeter, N. H
Tclaim the reamer consisting of the cast-iron body, A, steelcuters, B, an
steel shank, C, when constructed as herein shown and described, as and fo the purpose specified.
60,684 .-Crib and Waliing Stool.-Sanford S. Burr, Ded-60,684.-CRIB AND W ALKING STOOL.-Sanford S. Burr, Ded-
I claim the combs.
of furnation of a a crib or cradle with a walking stool in one piece


 60,685.-OIL Filter.-Wm. Cady, Marietta, Ohio.


 of the tank with whing device or contrivance and arranged centow the lected, substantiallya and for the purpo
herein sef forth. 60,686.-Molding Turbine Wheels.-James Cairnes, Philadelphia, Pa .
I claim forming the molde for the buckets of turbine wheels by means of the
cores, . without the use of a a a tern, the said cores having a close fit outside
of the bucket spaces, $b$, as and for the purpose ppecifed.


60,688. - Broom Head.-Thos. B. Carroll, Noblesville, Ind. FIrst, I claim the combination of thie core, a', core, B, wres, C D, and cam,
Fhe seared thereo as described, and tianged cap, G, substantially as and for
the purpose specified.
 60,689.-Ice-cream Freezer.-A. Carileer, Wm. McCuddy and P. N. Woliston, Springfield, Ohio.

 for the purpose evecif
for
forthe purpoese specif
60,690--Combined Square and Level-G lin, Marietta, Ohio
 rein set forth. I also claim the adjustable or sliding bar, E, in combination with theshaft or
arbor, thich the frame, $\mathbf{D}$, is aatached, substantially as and for the
aurpose r further claim the ping, g, on the projection, L, of one of the strips, d, of
the rame, in commination with the spring, h, in block, A , substantially as
and for the purpose set furth. 60,691.-Paint Mill.-Charles Clifton, Jersey City, N. J. Tclain, First, The cylinder, A. in combintation with the egrinder or palver
izer, O , when arranged together and operating substantially as and for the zer, O, when arranged or pulverizer. $O$, when made hollow, substantially a
purpose descrived
Second, The grinder Third, The spiral screw shaft or conveyor, W, or its equivalent, when ar
rangedw ${ }^{\text {thin }}$ the stationary center shaft, $C$, on whi h the cylinder, $A$, re
 60,692.-HARVESTER.-Wm. F. Cochrane, Springfield, Ohio I claim the side piece.- or the frame with the seg mental slots formed in
the made in one piece substantially as described. I aliso claim the seg sentally flotede frame arranged between the wheels
and
fribed. I also claim the employment of the main axie as a rock shaft, In combina-
tion withthe segmentaly slotted frame, sliking up aud down on sald axle,
substantially asd scibed


 60,693.-Harvester.-Wm. F. Cochrane, Springfield, Ohio

 as described, the combination of geared segments with a segmentally slotted
frame which thich is ad justed up and down on the axle, substantially as described

 ralso claim aswinging yoke attached to the tongue and frame, made ad-
justable for aryin the movementin of the frame in raisingan dlowering the
cutters, substantilly 60,694.-Railway-carriage Window.-Elisha T. Colbu n I claim the arrangement andapplication of the auxiliary sashes, C C', with
e wind
speciiiew. sash,, , or its equil valent, subs antially in manner and by meanis
 60,695.-BURGLARALARM.-Geo. A. Colton, Adrian, Mich. Iclaim the arrangement of the spring, M, with its stock, L, in combination
wcth tuie escapement or pallet, $G$, substantially as and lor the purpose de
scribed. I also clam the hook, 0 , or its equivalent, in combination with the above,
substantially as described and tor the purpose specified. 60,696.-Journal Box.-James Connolly, Boston, Mass.
 60,697.-SA w SETS.-Thomas Connolly, New York City.


 60,698.-Breech-loading Fire-arms.-Silas Crispin, New York City.
claim as new in that class of breecli-loading fre-arms which have the
charge chamber bisected as described and shown, the recessed rear portion
 60,699.-Manner of Hanging Mirrors.-W. C. Cumming, Peekskill, N. Y.
I claim the slotted and nothed sleeves or tubes, F, whether one or more,
for the rod so to mich the mirror is attached, substantialiy as and for the
purpose purpose specifled.
$60,700 .-B u t t o n-h o l e ~ C u ' t e r .-C . ~ N . ~ C u t t e r, ~ W o r c e s t e r, ~$ Mass.
 60,701 herein set forth. 60,701.-Tanning.-J. Davis and J. McKelvey, Pa
R. I.
60,702.-Wood-splitting Machine.-John Davock, New First, I claim the rotary spindle, G, with the attached knife, L, or knives in
comblination with the crosshiead, $F$, arranged substantially as hereln show and described
Soc da, ln comblnation with the rotary spindle, $G$, I claim the vertically
siling rod, toperate
purnose here the cams, 8 s, etc., substantlally as and tor the

 60,703.-Device for Closing Doors, Gates, etc.-Levi S. Deming, Newington, Conn.
I claim the employnento of the Che leversegment weight, h f , in combination
with the pulley, e , cord, n , substantially as and for the purpose described. 60,704.-Spindles and Bolsters for Spinning Machines. ,704.-SPINDLES AND BOLSTER
George Draper, Milford, Mass

 as and for the purpose speciued.
I also claim the arrangenent or the grooves, , and d, in the spindle,
when they are and in onection with an oil cup applied to the spindle or
arranged in the bolster, as specified. arranged in the bolster, as specified.
60,705 . Safety Attachment to Carriages.-Claude DuFrux, I New York City








 60,700.- Fire Grate for Steam Bollers.-R. Eaton, Lee Frist, Cland.




 60,707.-Boots and Shoes.-M. Evans, Russiaville, Ind.

 60,708.-Roofing and Siding for Houses.-C. J. Fay, Hammonton, N N . J.
60,709.-Cylindrical Amigamator.-Thomas M. Fell,


 60,710.-Paper File.-Josef Fleischl, New York City
 60,711.-BURGAR ALARM.- Robert G. Fowler, Olney, IIl, substantially as destribed and represented.
$60,772 .-H O L L O W$
RING. - Kasson Frazer, Syracuse, N. $\mathbf{Y}$.
 $60,713 .-$ Machine Belting.-William H. Gates, Louisville,


 $60,714 .-$ Street-car Heater.-John Gibson, Jr., Albany,


 60,715.-Root Extractor.-Bernard Goodrich, Brentwood,
 60,716.-Preserting House.-John C. Gove, Cleveland,


 60,717.-PRINTING Press.-Frederick J. Grace, Fort Lee,

 60,718.-Machnare for Manufacturing Candles.-Harris-








 60,719.-Wear Platies for the Soles and Hee
${ }^{\prime}$ Boots
 60,720.-Safety Pocker.-George Hamel, Abington, Pa.
Antedated December 30,1866 .
 described.
60,721. Plow Carriage.-James M. Hammith and Henry T. Miller, Toledo, Iowa.
 60,723 .-CuLTIV $\wedge$ Tors - A. P. Hammon, J. H. Lincoln, S. Lin-

 60,723 - Making Steel-headed Ralls.-L. m. Hart, Philadelphia, Pa .
 60,724.-Grinding Mill.-Michael W. Helton and James II Red field, Bloomingto, Ind.
We claim tle horizontal and vertical s.
 60,725.-SAW MLLL-Webster Herrick, Northampton, Mass erein shown mand deseribiag
60,726.-Machine For Entbossing Consecutive Numbers



 60,727.-Window Latch.-Ernst F. Hofmann, Poughkeep-
 60,728.-Machine For Spinning, Twisting, and Reeling George Hoover and A. N. Hadley, Richmond, Ind.
 $60,729 .-\mathrm{SAD}$ STo Ne.-H. W. Hopkins. Milford, N. H.

 60,730 .- Peat Machine.-Bennett Hotchkiss, New Haven Conn, assignor to himself and Charles Monson.
terrat in tial
thin






 60 731-LLADDER-F. W. Hover, Boston, Mass.



 60,732.- Hor-water Heativg Apparatus.-Henry HowF. Hawkins.

 Thilid, rha, ral liators formed as de ceribed, having one part, R , larger than 60,733.-Tobacco Pipe.-Edwin Hoyt, Stamf ord, Conn.


 ,


60,735.-Window-sash Fastening.-Robert Hutton, Brook yn, N. Y.
 60,736.- Bund-- Robert Hutton (assignor to himself and Ilaina hinnd hay, iny tis rod for operating the slats of the same 60,737.-Combined Seat and Top for Cairiages.-Frec-

 ${ }_{60} 0,738$.-Slop Jari- -John C. Jewett, Buffalo, N. Y.
 poses set forth.
$60,739 .-Q U A R T Z$
Mills.-G. D. Jones, New York City.
 60,740.-Time GLobe--Lonis P. Juvet, Glen's Falls, N. Y.



 60,741.-Car Coupling.-John Kelley, Woodberry, Md IT claim the wrounht-iron hook, $\Lambda$, proviled with a prong, C , arranged
act upon the coupling as deseribed. 60,742.-Clamp for Holding Syoring Pipes for Finish-ing.-William Kerr, Jr., Boston, Mass.
 60,743.-Lunch-Heating Apparatus.-II. M. Kinsley, Chi-

 60,744.-Keyboard of Musical Instrument.-G. B. Kirk-

 60,745.-AnviL.--Lancelot Kirkup, Brooklyn, N. Y, assign or to himself, Albert Palmer, Joel Packer, and W. M. Hudson.
claim the an
I claim the anvil, constructed substantially as shown, for the purposes
spelifed.
60,746 . ${ }^{\text {TheERs. }}$ - Evan Koons, Funkstorvn, Md, to Elias Emmert, Washington county, Md.

60,747 constructea sumbtantally as speciliek
6,747. - Apparatus for Fittering and Refining Oil.-
M. Hruger, New York City.

60,748.-SLIDE VALVE.-J. J. La haye and S. T. Reeves, Read-
 60,749.-Leak Signal for Vessels.-Noyes D. Lamb, Norwich, Conn.

 60,750.-MAKrva JUG Tors.-Geo. P. Lang and Peter Laus-

 60,751.- Dog.-Chas. W. Le Count, Norwalk, Conn. Ir claim the nollow dog or carrier, constructed in the manner substantialiy
as and tor the purposes set forthe 60,752. - Wheelwright's Spoke-drivivg Bench.-F. M Lemmon, Shelbyville, Ill.
 60,753.- Conpound for Saline Medicated Baths.-Chas. Lennig, Philadelphia, Pa.
I claimm the ocmposition or matter called "strumatic salts,", put up tn the
form and packages as above named, substantially as above set forth. 60,754.-Apparatus for Preparing Cotton.-Chas. Lewandowski (assignor to himself and Emile Grainer), Paris,

 60,755.-Composition of Matter for Fuel and other PURPoses.- John S. Lipps, Brooklyn, $\mathbf{N}$. Y, assignor to
 60,750.-Fastening for Raliroad Rails.-Horace T. Love, Vermillion City, Kansas.

## 


60,757. - Deodorizing Pethioherns. Orazio Lugo, New
 60;758.-Device for Suspending Horse Hay Foris, etc.Geo. B. and Clark Lewis, Adams Center, N. Y.

 specinina, The siliding or movable ring, $F$, in combination with the adjustable
cluch, $A$, , as and for the purpose specified. 60 759.-Concentrating Sulphuric Acid.-Joseph D. Loft-
 60,760.-DEvice For Ventilating and Heating Rooms.James H. Loomis, Attica, N. N . AND Heating Rooms.-


 60,761.-Wringer For Clothes and Mops.-C. E. Gage, Fond du Lac, Wis.
 60,762. - Tempering Steel Springs. - Cephas Manning,
 speifed. Machinery for Punciung Steet-pen Blanks.Edward A. Marsh and Jarvis P. Kelly, Chicopee, Mass.

 60,764. - Machine for Cutting Fly Nets.-Henry D. Mar0,
tin, Y Y psilanti, Mich.




 60,760.-Water Wheel-George W. McCann, Springfield,
 Second In combination with the gates, H $\mathrm{H}^{\prime}$, the springs, N N substantially
as and ior the pur pose set forth. 60,767.-Breast Pads.-Anne S. McLean and James P. Mĉ-
 60,768.-Cane Stripper.-M. Mellinger, Dayton, Ohio.
 69,769.-Feed Mechanism for Sewing Mactines.-M. H. Mcrriam, Charlestown, Mass.

 60,77 60,770.-METHod OF MAKING Sheet Metal Yessels of
Two Thicknesses.-Philip P. Meyer, New York City.





 either directlon. 60,772 .-Tor Wind Wheel-Max Miller, Brooklyn, N. Y.

60,773.- Hay Elevator.-M. Mitchell, Crown Point, Ind.


60,774.-Excavator.-James Molyncux (assignor to the Bor dentown Machine Co.), Bordentown, N. J.




 ton, Ohin.




60,7/77.-Stovepipe Thimble.-Thomas Newell, Oskaloosa,
Iowa. Iowa.

60,778.-Thrashing Machine. - Nelson Palmer, Henlyon, N. Y., assignor to himself and T. G. Palmer, Schultz-
ville, N. Y.



 60,779.-Broom Hanger. - James L. Patterson, Wheeler I claim then ring A, in combination with a bail or hook, B, arranged and
operating subutantuily as and or tile purposes set forth. 60,780. - Manumacture of Sulphate of Alumita, Alum, AND OTHER AlUMINOUS C
ton, Allegheny City, Penn.


60 ,781.- Process for Finisheng Sheet Metal-Charles H. Perkins, Providence, R. I.



 Ante ated Dec. 19, 1886 .


It yandotte, Nich.
60,784.-SPRING CruTPER.-Edward Powell, Conneautville, I claim the inetal inte, $\boldsymbol{A} A$, in ,
60,785 -0,785.- Carpet Sweeper.- George Purrington, Jr., New
York City, and James II. Purrington, Mattapoissct,
 60,786.-Spring Fismioori--Elias Rhodes, Jr., and J. W.
 60,787.-PLANING MAcIIINE.-Seneca M. Richardson, Wor-


60,788. - Level. - W. L. Richardson, Reading, Mass., as-






60,790-MOP Wringer.-A. J. Robinson, Troy, N. Y.
 60,791.-Safety Nipple for Fibe-arms.-William N. Rowe,

 60.792, - Privthers Ink Roller.-G. Russell, New York
City, and T. B. Hull, Brooklyn N. City, and T. B. Hull, Brooklyn N. Y.
 60,793.-Means for Rocking Cribs or Cradles.-Johns. Ryan, Berline Wis.


60,794.- Composition for Preparing and Hardening
Wood and Preserving the Same.-John Lewis SamWood and Preserving
uels, San Francisco, Cal.

 60,795.-Boiler-flue Cleaner.-Bernard Scheafer, Chicago, Ill.
Iclam the
 set forth. pate,
60,796 .-Box For Transporting Small Fruit and Ber-Ries.-Eli Secor, La wrence, Mich.

 ling, lerser City, N. J.





 60,799.-CAsten For F winiture.-Francis Smith (assignor to Edward Ward Willcr), Boston, Mass.

 800. - Maciine for Tenoning Bund Slats and Bor-
ing Tim Styles.-Hiram Smi: 1 l and J 'ho:. J. Lu:is, Norwichl, Comi,
e chaim,





 60,801.-Wrench. - R. S. Stenton, Brooklyn, N. Y.

 60,802.-Menss for Adjusting Spisdlesin Ring Spinning. - - rancis $A$ Ferty, Canton, Mass
 fi, bilu.- Wateli Flevator for Railroad Tanks.-Charles L. Stevens, Galesburg, IIl.





 60,804.-Cut Off For Steam Engine-Albert Stucken-

 60,8.55.-CAR Sprivg.-William Toslirach, New York City.

 60,806.-Lirod MEASuRE.-Joseph Trent, Milierton, $N$. $Y$.
 60,807.-Channeling Machine.-Hervey S. Vrooman, Ho-
boken, N. J. First, clain, so applying the arn, L. to thema chine, thatit may berenored



 60,808.-GATE Hinge.-James T. Watson, Richmond, Ind.

60,809-Mode of Lubricating Journals.-Isaac P.Wendell, Itilim an oil
60,810 . -

 60,811.-Ice Spur-Martin V. B. White, Ballston, N. Y.
 60,812.-Planing Machine.-Baxter D. Whitney, Winchendo, Mas.
I laim laving th

 60,813.-Tiriesiing Machine.-Mark Wilder, East Prince-
ton, Mass.






60,814.-Metallic Cartridge.-O.Winchester, New Haven, Conn.
 60,815.- CAR Coupling.- Enanuel Zorger, Greensburg, Ind.



60,816.-GLobe Valve for Steam Engine.-E. H. Ashcroft, Lynn Mass.
 60,817.-Boiler Gage-cock Handle.-E. H. Ashecroft, Lynn, Mass.
 60,818.- Puinr - Stephen L. A very, Norwich, N. Y.


 Secoli, Iclaim, ay an antiticl of manyificture and sale sole leather corru-60,820.-Hils.side PLow.-Frederick G. Bakes, Veva y, Ind.


 60,821.-Wool Press - George Baldwin and Allen B. Chase

 60,822.-Die Fon Curiving Screws.-E. D. Barrett (assignor
to self and Julius B. Sivare) New IItwen, Conn.
 60,824. - Porvdrir for Facteg Molds.-William Baty, I clatm the mold, Ohio.
60,825.-Corn Sheller-Clarles Beach Penn Yan N





 60,80.- Boarse York, Pa.

 60,827.-Saw.-Asa Bee, White Oak, West Va.





 ascribed.
sulphond
sule combination of linseed oil with the products of gas tar and
 60,830- - Roofing MA'TERLAL.-John F. Boynton, Syracuse,
N. Y.



 86,831.-CARRIAGE SpRING.-C. H. Butterfield, Sturbridge,

 60,832.-Needle Gun.-A. Alphonse Chassepot, Paris,










 60, B3is.- Apparatco for Turning tue Leaves of Music.-
Alví Clark, Riclmond, Ind:


 60,834.-Photographic Bath.-Amasa Cobbs, Pittsburgh,
 60,835.-Manufacture of Alcohoi and other Pure Dis-

 60,836.-Device for Detaching Runaway Horses.-E. P Connor, Jeftersonville, Ohio
 60,837.-Converting Reciprocating into Rotary Motion John Cupps, Chicago, IIl., and Amos R. Harper, Grand ville, Mieh
 rotary mot
speciifed.
60,838. - Automatic Apparatus for Reefing Sails.-John




60,839--Machine For WIring Blind Slats.-Elijah F F
Dunaway, Indianapolis, Ind. Antedated Dec. 19,1866 . I claim the arrangem ent of the cord, Y, with the lever, C and J , and pulley


 60,841.- Thable.-J. E. Dust, Hyattsville, Ohio
 60,842 .-Grate for Furnaces.- John Alezander, Green $\underset{ }{\text { Frist, }}$ Intlaim ing


 60,843. - Dovetail Machine.-Juan S. L. Babbs, New First, Ilbany, Ind.



 60,844.-Heating Stove.-William A. Barlow, Elkhorn,



 $60,845 .-H e a t i n g$ Stove.-William A. Barlow, Elkhorn,

 60,846.-Selio hing $^{2}$ Machine.-D. C. Baughman, Fort Seneca,




60,847.-HEad Blocks for Saw Mills.-A. M. Beard (as-
signor to himself and Solomon McNeil),
Hillsborough signor to N . H .






 60,848.- Rooring.-Edmund Becker, Cincinnati, Ohio.

 60,849--SLaTE WASAER-Otis T. Bedell, New York City. Ib clatima alate washer composed ar a campersible water ves
69,850 - Car Brafe.-Charles Bomis, Mishawaka, Ind.



Frederick Benett, Watford, England, assignor to John
S. George, Nassa, N. P.




 ford, Mass.
 60,857. - Apparatus for Charging Gas or Air with Hyrocarbon Vapor.-W. H. Burridge, Cleveland First, Iclaim


 60,858.-Weiaming Apparatus.-Benjamin Churchill, Ware

60,859.-Machine for Cleaning Cotton, etc.- Robert J
Clay, Williamsburg, N. Y. assignor to to J. H. Clark, E
Wallsh, D. Donaldson, and J. H. Walsh.


 60,860.-Flour Bolt.-William F. Cochrane, Springfield, ${ }_{\text {Firgt, } 1}^{\text {Ohio }}$ cia
First, I claim the combination with the rel, reel-spout, and pump, of the

 60,861.-Steam Efgine.-Klephen F. Davenport, Hallowell, Maine.

 60,862.-Target for Air Gun.-Charles A. Demling, New

 60,863-Toy GUN.-Samuel R. Dummer, New York City.

60,864-Method of Removing Bars from Rivers and
Har3ors.-Sydney S. Durfee (as

 60,865.-Railroad Freight Car.-Richard Eaton, Montreal,

 60,866.-Scafrold Bracket.-Charles Eddy, Grass Lake,
 60,867.-FUNNACE- William, Ennis, Hudson, N. J.

60,808.-Raflroad Car.-Joseph S. Fairfax, Wheeling, West I clam

 60,869.-Сомві
ham and M. P. Farnham, Janesville, Wis.

 , 870--Steam Genvaran. - Henry Feyh, Columbus, Ohio, assignor to himself and George T. Emery. Antedate


 for conductins the
tialy as descrived
60,871.-Atmospieric Dental Plate.-Nehemiah T. Fol

 (0,872. - Wind indow-blind Fastener. - Chariles B. Francis,
 60,877.-Poittable Field Fence.-Jacob J. Friend, Altona,




 July $1,1866$.
claim the arrangen



60,877.-Cooking RANGE.-W. A. Goodher, Burlington, N. J.
 60,878.-File Cutting Machine. - Isaac Goodspeed, Nor-



 60,879. - Cotton Cultivator. - Nicholas Gotten, Union

 antally as shown aud described.

 60,881.-LIfting Jack.-George F. Graves, Mount Upton,
 60,882. - Tatting Shuttle.-A. B. Greenwalt, Baltimore, Md.
 60,8ss.-Mindral Yacuem Apparatus.-George Hadfield,




 60,884. - Converting Wheel-carriages into Sleighs.-
O. B. Hale, Chicopee, Mass.
 60,885. - Indelisbe Pencil. - Wm. B. Hale, Northamptom, Mass, assignor to Northampton Indelible Pencil Co
 60,886.-Shoe Brush and Case Combined.-Charles Hamil-
 tantialy bet forctu and deoscribe



 60,888.-F'Eedivg Device for Sewing Machines.-John Hanlon, Bridgepert, Conn.




 60,889- Fence Post.- B. S. Haviland, Fort Dodge, Iowa.


 $60 ; 890$-Manvacture of Soap.-Charles W. Hermance, First, Albany, N. Y. Y

 60,891. - Conductors' Ticket Box.-Henry Hise, Ottawa, Ill.




 Ind pivoted spring standard, C , removable shares, J , ad actistable 60,893.- Mode of Attaciring
Hoffeditz, Mercersburg, Pa. In inim the arra, Mercersbourg, , Pa.
 60,895.-DriLLL-Henry Hufendeck (assignor to S. R. Fox, Dec. 12, 1866



60,889. I. Yenmax's Assistaft.-Henry A. Hutson, Newburg,


 69,897.-Alarm Gun.-Albert Johnson and Sydney E. Allen, Raleigh, N. C.
 60,898.-Process for Obtaining the Precious Metal I claim the system merein set forth for obtaining gold from the bedsof rivers
subbtautialy
substantially as speciffed.
60,899.-Mode of Gathering and Treating Auriferous
Sands from tiie Bedsof Rivers.-John Johnson, Saco, Claim the
I claim the process of raising and treating auriferous sands found at the
bottom or rivers and lakes, sibstuntially as described.
Ialso caile

 Jolly, Versailles, Ind.
 set torthl, In the described combination, the saw, upturninz apparatus, and
sucon,
getces, 1 claim the double-headed raking planer, N N , acapted to operate as
get forth. set forth.
Nhe arranyement of the segment roller, Re, checks, $\mathrm{S} \mathrm{S}^{\prime}$, and planers, 60,001.-EAsif Fastrafr.-J. W. Judd, New Haven, Conn.
 60,902.-SNAP Hook.-Oliver S. Judd, New Britain, Conn. 60,903.-Arvchor. - Charles T. Julius, Philadelphia, Pa.
 substantially as and tor the purpose describet.
60,904 .-Truss.-John A. W. Justi, Savannah, Ga
 curve, proportioned and arraneed wed with reference to the pads, a a, substand
tially as and tor the parposes herein specifed.
60,905 .-Pocret

 60, ©06.-CATTIE CAR-Moses T. Kehoo, Amsterdam, N. Y.
 60,907 .-W Whising Machine. - John B. Kinney, Yellow Springs, Ohio.
and linim the grrangenent of the coripnind lever, D F, vibrating rubber, H ,
aidaptent to operate an or wast worth. 60,9c8.-Curtain Fixture.-A. H. Knapp, Newton Centre,

 for the purpose set forth.
t $0,909 .-$ Sprue fort Molders.-Patrick W. Lamb, Albany,
 for he purpose or purposes herein set forth.
60,910 .-Magazine Fire-arm.-Thomas W. Lane, Boston, 60,910.-Magazine FIRE-ARM.-Thomas W. Lane
Mass., assignor to the Spencer Rifle Company.
I claim an

 60,911.-LLounge for Ivvalids.- Robert Leaman, Hillsbor-
ough Ohio. ough, Ohio.

 ing in the manner and tor the purpose berein specitied.
60,912 - SHAFT. Coupling.-J. F. Light, Worcester, Mass.
 60,913- - Bed Botrom.-Charles P. Loeser, Hartford, Conn.
 60,914.-Corn Planter.-Charles I iony, Paris, Ill,

 60,915.-Mode of Finishing Fire Arms so as to Prevent
Oxidation and Corrosion.-J. Allen, New York City
and S. P. Townsend, New Providence, N. J.

 60,916.-Cultivator.-Tneophilus F. Bertrand and Peter Sames, Rockford, Ill






 60,917.-IMstrument For Acupuncturation.-Anson R. Brown, Litchfield, Mich., assigns one-half interest to
Gardner Herrick, Albion, Mich.
 voir except at the neecile tholes, substantially as specifled.
60,918 - Peat Machine.-Samuel Marden
60,918.- Peat Machine.- Samuel Marden (assignor to him
self ancl Dustin Lancy), Newton, Mass.





 60,910. - PuMpr.- Reuben A. M. Canley, Baltimore, Md.

 shown and descrithecl and for the purposes set forth.
$60,920$. - CAR Coupring.-J. Mccaughlin, Duncommon, Pa.

60,921.-Artificial Arm.-A. McOmber, Schenectady, N. Y

 60,922.-Machine For Squaring Tiles.-Andrews T. Merri
man, Rutland Vt man, Rutland, Vt.


 Fortth, The edjostable pase ${ }^{\text {ghe }}$, In combination with the clamp, 1, and
flater, constructed and operating substantially as and for the purpose set
orth 60,923.-Car Coupling.-F. H. Meyers, Wilminc ton, Del.
 60,924-Haxdle fore Saws.-Mli Morris, Jr., New Haven, I claimn constructing the handle of a siw frame of metal integral for the
ost apr trith the trane, and joined by riveting or ortherwise to another
parate piece to complete the whole as set torth. 60,925.-Lubricating Device-G. M. Morris, Cohoes, N. Y
 60,926.-Logaing Skid.-G. W. Nichols, River Falls, R. I.
 60,927.-WIND Mill.- Wm. D. Nichols, Chicago, Ill.


 60,828-Thrashing Machine.-Nelson Palmer, Hudson,
N. Y., asignor to himself and T. G. Palmer, Schultzville, N. J. T.
 60,929.-Tirashing Machine.-Nelson Palmer, Hudson, $N$. Y. assignor to himself and T. G. Palmer, Schultzville, First, I. Inhim a thrashing cyunder when constructed with lorg'turinul ribs
which smoth upon one side and rough upon the other, uubstautially as
and for the purpose set forth.





 in the reverse dircction, substantial y ae and for the purpose set forth.
50,930 .-CAR Brake.-Phineas Pardee, New Haven, Conn.
 60,931--DAMPING BRUSH.-J. K. Park, Marlborough, N. Y.
 60,932.-Steam-engine Valves.-Samuel J. Peet, New York
 $60,933 .-H$ Honse-rower. - W. L. Peet, Maple Rapids, Mich. I clain the conbination of the sliding frame, B, wheel, Q, endless chain, $\mathbf{P}$,
and driving whieal, F. .onstructed and arranged to opperate in the manner
as and for toc putpose hicrin specifed. 60,934.- Rhariheerator.-Chas. F. Pike Providence, R. I.


 60,935.-Hoisting Tacele.-J. C. Price, New Philadelphia,
 60,936.-Self-Centering Tool.-A. Puckett, Terre Haute, Ind.
claim the sleeve screw, C, and the center drill, D, In combination with the
oil chuck, A, constructed, arranged and operat scroll chuck, A, olistructed, arranyed and operat ng in connection there-
with, substantilly as and for the purpose herein specited. 60,937.-LAMP Chimnex.- Charles H. Reichman, New York.
 over the fange orthe lower part,
60,938 - PLow.-Freeman F. Reynolds, Burke County, Ga.

 to, the several parts being in combination, as specilied,
60,939-Machine FOR MAKING EYELETS.-Levi Richards Richards), Providence, R. I.

 60,940.-Fiber from Pine Leaves, for Hygienic and other Purposes.-Adolphe Rogue, Brire, France, as-
signor to Jacques Guedin, New York City. signor to Jacques Guedin, New York City,
claim the withindescrive procespof producing a y ingienic wool from
leaves, by treating them substantially as specined. 60,941. - Hand HoE.-C. A. Rose, Columbus, Georgia.


60,942.-Preserving Butter, Meat, etc.-Wiliam Ross, of
Day's store, Pennsvlyania. I clatima chenmical preparation for preserving butter and meats, composed
of he ingredients and in about the proportions subsaatially as herein speci
fied. 60,943.-Steam Engine.-Hamilton Ruddick, Boston, Mass
 60,944.-Composition for Lining Oil Barrels.-John P. I claim an improved composition for N. Y.
 ner herein specilfed and described.
$60,945-C_{\text {arriage }}$ Jack.-H. S. S. Shepardson, Shelburne
 60,946.-Churn.-R. W. Shriner, Woodland, Mich.
 60,947.-Scaffolding For Dry Docks.-James E. Simpson,
Brooklyn, N. Y. I clatm the combination or the stationary guide and saphart rail, a, the sllding
sho, b, and th hinged or folding upright, f, arrantivid to operate unlistan-

 60,948.-Fertilizer.-Amor Smith, Cincinnati, Ohio.
 60,049.-Mittens.-A. P. Smith, Sierling, Ill.
 60,950. - Lathe Rests. - Henry K. Smith (assignor to
Charles Osgood), Norwich, Conn.



 60,951 .-Curculio Trap.-Jeremiah Smith, New Market, ${ }^{\circ}$ Ohio.
Incham, the imper vious elastic joint, Da a, connecting the two parts of the 60,9i2.-CHUQRN-Zealous Sperry, Potter's Corners, Pa.





 60,954. - Door and Gate Spring. - James Stephenson,
Candaigua, N. Y.
 60,955.-Compound For SwEETENING, Coloring and Fla-
voring Tobacco. Frank W. Sterry, Morrisania N Y I claim a compound for sweetening, flavoring and col oring tobacco, which 60,956 .-Mode of Storing Petroleum and Other Liquids so as to Prevent Loss from Fire.-Simon Stevens, New York City.
I claim $t$ :e mode hreren described for the storing of petroleum or other
similar inflammablc liquid 3 , so as to prevent accident by itre. 60,957.-Composition Paste or Cement for Roofing.-R. B. Stevenson, York Township, N. Y.
I claim the compounding of burnt brick or well
 60,958.- Glue Por.-Henry C. Stewart, Cincinnati, Ohio. 60,959.-Clamp.-William Strevell, Jersey City, N. J.
 60,960.-Burglar Alarm Guns.-P. Swisher, Versailles,


 described. 1 Iaim also the outside powder pan, 1 , for lighting a candle or
Tilir, I
lamp when the gun is ored, in the manner herein specifed. 69,961.-WHEEL Tox.- John Syrcher, Buffalo, N. Y. Iclalimataching the string, Fohn the inchiar, iubber or other ela atic block,
E, in the manner and for the purposes described. 60,962. - Blacking Box Holder. - George W. Taylor,
 60,963.-Boat Detaching Tackle.- J. R. Taylor, New York City.
I claim connecting
 60,964.-Boat Detaching Tackle.-James R. Tayler, New
York City. York City.

 60,965.-Boat-detaching Tackle.-J. R. Taylor, New York
 60,966.-Boat-de'taching Tackle.-J. R. Taylor, New York City.
reinaim, in combination with a hook used in a boat-detaching apparatus, a
reinforce or secondary ho ok, e, which catches under a solld portion of the head and thus relieves the pivot of the hook, or makes a safety connection
should the pivot of the hookgive way, sub stantially as described.
 60,967.-Means for Attaching Elasicic Tips to Legs of FURNITURE.-E. E. S. Torrey, New York City.
I claim the combination of the socket, B , and conical leg, a ,

OF GlUE-George Upton, South Danvers, Mass.
I clais, in the manufacture of glue the process of subsecting the gelatino $u$

60,969.-Hoop Skirr.-Hunneville Vincent, New York City,

 60,970.-Door Lock.-Rudolph Vollschwitz (assignor to himself and J. J. Schl

60,971-GRANARY.- James Walsh, Valley Town, Ill.
stantially as described and represented.
$60,972 .-$ HoLow Aver.
O.seph Ward, New York City.

 0,973 .-Mechanism for Operating Dies.-Hervey Waters, Northbridge, Mass.

 thercof.
$60,974 .-$ Lock and Ker.- H. B. Weaver, Hartford, Conn.
 Second Phe cos bina tion sot the whe wove and the fence, $\mathrm{k}^{\prime}$, the whole being
 The handie, $\mathrm{E}^{\prime}$, as described.
Firth, Thit in the tubular stem of the handle, $\mathrm{E}^{\prime}$ in combination with
notches, p , in the edges of the key. C0,975. - Rectifier For STills.-A. Werne, New York City. First, I claim the spiral channels formed in the covering plate, c , and in
the box,
for the purpose hereiral fanges and for the purpose herein sbown and descrioed.
 60,976-Cilliams, Livingstonville - E. A. Wightman and W. C. We claimiams, the silining rod, Bstonvirange, N. With the poles, A, as shown adapted
to be drawn therefrom when desired, substanulally as represented and de-
scribed. 60,977.-Corn Husker.-J. F. Winchell, Springfield, Ohio, assignor to himself and George C. Steele.
I claim the corn husker, consistingor the metal plate, A, and the strap, B,
made anjustable in size, when constructed and arranged as herein siown and described.
60,978 .-Chair.-G. C. Winchester and M. V. B. Howe (as-60,978.-Chair.-G. C. Winchester and M. V. B. Howe (as
signors to C. and G. C. Winchester), Ashburnham, Mass
 Also combining as itit such arrangement or tons.rnucton, the spring, i, fixed
to the bear and
and described. Also the combining of the ratchet bar, pawl plate, shaft, and cam, When
nrranged to lock the seat in horizontal orinclined position, substantially as set forth.
Also forming each side rail, f, and its lede, prom a fingle strip of wood
bent inco shape, substantially as shown a a ded feribed. 60,979.-Construction of Ordnance.-W. E. Woodbridge Little Falls, N. Y.
 Second, I claim, in general terms, the construction of canon, substantially
nis heerein deacribed, mo.itying the selection and use of materials as herein set
forth. forthird, , also claim the application of the mode of construction hereir de-
seribed, to tubes other than cannon, when the mechanical requirements are
similar 60,980.-Bridle Bit.-L. D. Woodmansee, Dayton, Ohio:
 60,981.-Grates.-Charles J. Woolson, Cleveland, Ohio. I claim the tipping frame, A, provided with Journals and bearings, B , in
combtation with the shackle or grate b ar, D , arms, E , and link O , and du 60,982.- Cul'civator Plow.-S. A. Wray, Greenfield, Ind. J'claim the combination of the beam, B and B', elastic plate, D, and hinge
joint, E, with a vice for retaining the beam in position, substantially in the
nianner set forth. 60,983.-Water Wheel.-Anthony Wrealsh and William Burns, Springfield, Ohio


 tion to and serving as a bearimg for the guide ring, $H$, substantially as set
torth Fifth, The plate, F, when constructed and arranged between the guide
 60,984.-Composition of Glue or Gelatlat and other Materials called Durogel. - Henry Wurtz, New York City.
In claim the combination ofbichromate of potash with ordinary glae or gela
tine, in the nanner and for the purpose substantially as described in the fore
going speciftcation. 60,985.-Hollow Auger.-Emanuel Young, Amanda, Ohio.

60,986.-Imponderable Fluid and Mode of Generating THE SAME.-Martin Ziegler, Mulhouse, France.



RE-ISSUES. Monnier, Philadelphia, Pa. Patented March 21, 1865 . as hereln thet freath.
2,431- Refining Hydro-carbon Oils and U'tilizing
Waste Products Therefrom.-Henry Pemberton Waste Products Thererinom--Henry P
Alleghany City, Pa. Patented Aug. 2,1850 .




 decomposition or salt, in
2,432.-Drying Apparatus.-Edward Y. Robbins, Cincinnati, Ohio, assignee by mesne assignments of himself. Patented July 19, 1864.


 2,433.-Lap Joint.-Henry Underwood, New York City. Patented Feb. 9, 1858
I claim the ninion of the plates or straps b, with the rive's a a a', which
pass through outer and inner ends, A B, of the belt, substantially as and for
the porposes described. 2,434.-Machine for Making Nuts.-William E. Ward, Port Chester, N. Y. Patented Oct. 7, 1856.
 as aescribed, in corrbination with the two hales or two dies, so that a bole $C$ todischarge tie nut which was cut off during the previous part of the same
mot ino.soclaim in combination with the punchingand catting mechanism eithe
with



 2,435-Heating Stove. - William A. Barlow, Elkhorn
Wis. Patented June
3 3,1862
 scending to the ascending flue or flues, substan ially as and for the om thepose
herein

 In composination with the thove, I also claim the dividing plates, a a sab.
stantially as and for the purpose herein described. 2,436.-Heating Stove.- William A. Barlow, Elkhorn,
Wis. Patented June 3,
1862.

 top to the base of the stove, outside of the stove body, substantially as and
for the purpose herein set forth. 2,437-Capstan For Steam Boats.-John Schaffer, St
Louis, Mo. Patented Oct. 21, 1856 . Louis, Mo. Patented Oct. 21, 1856.


2,438--Rake for Harvester.-C. Aultman, Canton, Ohio assignee by mesne
ented Dec. 11,1860 .
First, Iclalm a support or the revolv ng rake and reel shaft attached to
and moving with the platform of a hinged bar machine.
second

 Fourth, An antomatic revolving rake, wit a universal joint for driving it.
Fitrth rhe combination or revolving rake and reel, a hinged platform, and
aonted tumbiling driving shaft.



 Tenth, A standard or support, which sustains the sweep rake above the
drantranmer driving wheels thereof, said 8 andard or support being mounted
on the inned paltorm. Eleventht, In a a ararvesting machine, which has its cutting apparatus hinged
or jointed the mant



 clined to ward the patform for forcing the rake down to the platrornm, and
then olevating it up and out of the way of the wheals and nain frame. in its
revolution. ,439.-Harvester.-C. Aultman, Canton, Ohio, assignee by 2, 1859 .
 Fourth, In a a harvester, having a revolving rake and reel, I I clasms uspend
ingthe hinged plattorm to the main frame at one or more points betw een the
driving wheels
 Sixth, The employment of radial reel and rake arms attachec to the centra




 Thirteenth, The combination of a quadrant platform and a hinged finger
bran sappended from a arame supported on two wheels.



2,441.-Fruit Box-Nicholas Hallock, Flushing, N. Y Patented Sept. 7, 1858.
I claim, First, A f ciut box constructed of thin sheets or strips of material
hich form the bod and botom of the box, and secured together, substan-




2,442.-SPring Holder for Wiping Cloths.-Henry Johnson, Chicago, Ill., assignee by mesne
I claim the spring holder forcloths consisting of two or more curved spring
angers, arranged substantially as and for the purposes described. 2,443.-Nicking Screw Heads.-George L. Morris, Taunton Mass. Patented June 12, 1866 .

 2,444.-Machine for Making Clinch Rings.-G. M Patten, Bath, Me. Patented May 2, 1854 .

 2,445-Breech-Laading Fire-aras.-William Mont Storm New York City. Patented July. 8th, 185 f .
First, I claim a breech. piece, , hinged at its if ont end, and swing'ng upwar

 Second, I claim cuatting a way the recoil-bearing surface, substantially as de

 frich would other
fore fully explained.
2,446.-Breech-Loading Fire-A pms.-William Mont Storm New York City. Patented July $8,1856$.
First, I claim a a chanabere.d breech piece, when'such breech piece is hinged
t its for ward end to the barrel, and arranged to swing over, substantially as


 positive motion as asecribed, thel lock
rel and bolt, as hereinhefore set forth.

## DESIGNS

2,533.-Trade Mark.-Charles C. Buckley and Louis Dovell
New York City.
534
2,534.-Conch Lamp.-EE. R. P. Cowles (assignor to C. Cowles \& Co.), New Haven, Conn.
,535.-Stove.-Harrison Eaton, Amherst, N. H
2,536.-Medallion.-Orion Frazee, New York City
City 2,538 .-Round Comb.-W. S. Minges, New York City. Two Cases.
,539.-Handle of a Fork or Spoon.-John Polhamus, New York City.
,540.-Handle of a Caster.-Horace C. Wilcox (assign Ce Wilcox (assignor to the Meriden Britannia Co.), West Meriden, Conn.

EXTENSIONS.
Machine for Drilling Stones.-Joseph J. Couch, Brook: lyn, N. Y. Letters Patent No. 9,415, dated November I clain the impro venment of making the drill rod to slide through the plston
od, substantallaly 1 the maner and abve set for th.

 Knitting Machine.-Daniel Tainter, Worcester, Mass. Letters Patent No. 9,435 , dated November 30,1852 .




Grain Separator.-John R. Moffitt, Chelsea, Mass. Jetters Patent No. 9,432, dated November 30, 1852. Reissue
No. 540 , dated March 23 , 1858 . Again reissued No. 716 , No. 540, dated Ma.
B 1, May $17,1859$.

Mortising Machine.-Joseph Guild, Buffalo, N. Y. Letters
Patent No. 9.431 , dated November 30, 1852. Reissue Patent No. 9,431, dated November 30, 1852 Reissue cl im, First, The sliding wrist, o, co
1el im, First, The silding wrist, o, connected with the chisel, and also with


 Machinery for Making Pills.-Erasmus A. Pond, Rut-


 nin

## NEW PUBLICATIONS.

The New Gospel of Peace according to St. Benjamin. The American News Co., 119 Nassau street, have issued the above famons
paper.
These writings are full of the most pungent political satire, adapted to mod ern time
after.
Guy Hamilton; a Story of our civil war. By Miss Mathews. 50 cents.
Olive Logan's New Christmas Story. 50 cents.
These are very readable stories, and will be found quite acceptable at the
inter-evening freside. Published by the American News Co., New Xork.

## EXTENSION NOTICE.

William Wickersham, of Boston, Mass., praying for the extension of a patent granted to him the 19th day of April, 1833, for an improvement in sewing place on the 19th day of April, 1867, it is ordered that the said potition be heard at the Patent Offlce on Monday the 1st day of A pril next.

