## MECHANICS' AND INVENTORS' GUIDE.

We have lately published a new and convesient volume, of 108 pages, upon Mechanics' Patents and Iuventions. which promises to be of much value to all who are of a scientific or inventive turn of mind. Although the proportions of this book are not equal to Webster's dictionary, still we venture to say that so large an amount of valuable information has seldom been collected within so small a compass
The book contains all the patent laws in full, except repealed or salary sections; the principal official rules and directions for conducting business at the Patent Ofice; 112 engravings of the best mechauical movements, with descriptions, oi great value to mechanics and inventors who study the best construction for machinery; a chapter upon the steam engine, with an engraving of the common condensing engine, with letters ot reference and nomenclature of all the parts; instruction in practical geomerry; table of the effects of heat unon bodies; table of the pressure and temperature of steam; of the electrical conducting power of various substances; forms for assignment of patents; instructions how to obtain patents and caveats; practical directions and best methods for selling patents; hints upon the value of patents; how to invent; information upo the rights of inventors, patentses, assignees, part ners and employers; advice as to foreign patents, extensions, reissues, infringements, together witi a variety of other highly usetul scientific and mechan ical facts and calculations, the whole abundantly illustrated with engravings. Price only 25 cents. Ad dress Munn \& Co., 37 Park Row, N. Y.

THE " WINOOSKI" AND "ALGONQUIN."
These two vessels, which have been so long written and talked of, are about commencing theis trial for economy of power. It is bardly necessary to recite again all the conditions under which they are to be run-this matter has been alluded to in previous numbers of this journal--suffice it to say, that on Friday last the preliminary trials of the engines took place; that is, the five-hour runs to get reaciy, and immediately thereafter the ninety-six hour trial was to be entered upon. At the time of our visit the Algonquin was turning her wheels vigorously, while the Winooski, the naval vessel, was lying still, stesm not having been raised. Mr. Dickerson deserves commendation for the energy he displays in looking after his interests; he runs his own engine, aided by others, and takes off his coat and goes at it with will. The boilers on the Algonquin work admiraily The fires were started at $10: 18 \mathrm{~A}$. M., and stenm started at $10: 37$; one boiler was cold, the other had water at $120^{\circ}$ in it; 1,100 pounds of wood, and 2,000 pounds of coal were consumedin so doing. At 11:45 the engine was started with 45 pounds pressure, and, when we left, was making 16 turus per minute, with 60 pounds of steam, cutting ofr at points between half stroke ( 4 feet $4 \frac{1}{2}$ inches) and ten inches. We shall publish the resultsin our next issue.

## PASS THEM AROUND.

We have received a number of letters from correspondents in various parts of the country, inclosing a printed puffing circular of "Morton's No-ink Pens," purporting to have been patented iu June, 1805, and alleged to be a perfect substitute for ink, and requesting people to remit. The circular contains a strong recommendation, pretended to be quotedfrorn the Screntific American. C. V. Morton \& Co., No. 21 John street, Jersey City, N. J., is one name under which the humbug is conducted.
In reply to our several correspondents, we have to say that no such patent has been granted, nor have we given any such recommendation. On inquiry in Jersey City, tha ${ }^{\dagger}$ no suchfirm or place of business was to be found. We further ascertained that the police were on the watch for the scamps, which has caused them to depart from Jersey City. Whou we last heard of them, their victims were directed to address them at Tarrytown, N. Y.
We hope the postmasters at places where these fellows Lave been or may be operating will take the necessary steps for their arrest. 'They have swindled hundreds of people.


ISUE FROM THE UNITED STATES PATENT-OFFIOA Fir the WERR ENDING SEPTEMBER 19,1865 Ensportert, Officially for the Scientific Americar
ar Panphiets containing the Patent Laws and tul particulars of the mode of applying for Letters Patent pecitping size of model required and much other in cormation useful to inventors, may be had gratis by ad ressing MONN \& CO., Publishers of the Scientific American. New York

9,959.-Dreech-loading Firc-arm.--E. S. Allin, Spring field, Mass:
 pring. in, the manner and for he purposed descrived. ng a corresponding bevel, c , on the barrel, as and for the purpose
 49,960.-Cut-off for Water Conductors.-.James Ash sterling, 111.:

## I clain ine "adiustable tube, $B$, applied in combination with the conductor, A Aud discharge pipes, $D$, $D$, substantially in the main

 uer tand tor the purpose set foith.l'this invention relates to certain improvements in conductors of water in buildings, and its object is to change the dirention of the current from one outlet to another with little trouble or loss time.]
40,961 - Steam Gage.-Chas. Barnes, Cincinnati, Ohio I claim the provision in a steam gage of two or more springs
il of unegual , ension, arranged and operating in the manne * 1 , of unequal insion, arra
and for the purpose set forth.

9,962.-Mowing Machine.-L. M. Batty, Canton, Obio
 doutle
dout
set forth
second
second. I claim the swivel- jointed stay rod, $\mathbf{E}$, the upright guide od, $N$, with the : et bolt and nut, n, and the shoe, H, in combination
vinh the swivel ioint, $v$, when operating as and for the purposes se
Third, I claim the cam lever, F, with the standard and flexible joint, t , as herein set tortb.
Fourth, 1 clann the arrangement of the outer shoe, J, block,,$~$
and set screw, $z^{\prime \prime}$, tor raising and lowering the shoe independently
 in combination
purpose set torth.
49,963.-Harvesting Machine.-L. M. Batty, Canton Ohio:

## First, I claim the seat irons, $\mathbf{E}$, wit

 , and clutch. $K$, the double spur wheel, L., pminnon, Mo on w, and orthird, I claim the hand lever, o, with the spring, together with the



 Feam, c , and ciam supporting the reel post, e, and carriage, n , by the
Find thard, $K$ tastened by a wedge, $v$, as described. Sixth, 1 claim the segment lever, $p^{\prime}$, the rack, ", and the plate, $r$
ncombination with ine reel carriac, $n$, and reel post, $e^{\prime}$, in the manner and tor the purporse set ent of the folding arms of the reel
 arms
forth.
or
.

49,964.-Rake $\Lambda$ ttachment to Harvesters.-T. M. Batty, Canton, Ohio
and tor the purpose set forth. Second, yclaim the arrangement of the crooked arm, D D, in com
binaton witl the peculiar guide., $L$ and f , for operating the rake
substin ially as sef forth. bination with the peculiar
substinnially as setforth.
49,965,-Machine for Beveling Picture Frames.-Otis T. Bedell, New York City:
First, I claim the use of mechanish, substantially as herein de
scribed, for the purpose of beveling the edges of photographic pic ture frimes by machinery, in contradistinction to periorming the
labor by land second, The combination of one or more 1 nives, $F$, secured to
cirriars. E , with the sell - acting clamp, H, constructed and operat
ins subitantially as and for the purpose set forth. Third, The vertical knives or cutters , , , in combination with the
incline kife or knives, and clamp, H, constructed and operating
substantiflie ar substantiallis as and for the purpose spectied
The object of this invention is a machine intended to bevel oft the scs of asteboard frames, such as are generally inserted in photo plotographic cards of that class generally made for the purpose of
 them are cut out large enourh to take in such cards. In order to be able to remove the cards, it is necessary to have one of the cinds (generally the lower end) beveled oft for if the edre is tet square and the card or cardsinserted into the frame, the ycan only be removed with great dificulty. 1 49,966.-Shipping and Unshipping Hind Boards to Freight Antedated Aug 31, 1865 : Coni. Anteda
 and fited to pi oduc: the result substantially as herein described. 49,067.-Feeding Device for Scwing Machines.-James
Bolton and Jerome B. Secor, Chicago, Ill.: Bolton and Jerome B. Secor, Chicago, Ill.: dor and the turning feed guide, for the purpose of clanging the direction of the feed of the materiai to be sown drom one line to an
otiner at right angles therewith, suostantially as doscribed.

We also claim, In combination wita a turning reading foot or dog

 We also cl iit, in combination with a turying feeding foot or dog
the piveded slotted and oscillating carrier M, , ior givivg said ioot io
log a part of its feed movement in any of its positions, substantially
 lating carr er, the stud or post, u, for gui ings.idd drecting the teed
mg root, and allowing it to rise and lall Lhereon, substintially as
described We also claim the pivoted and adjustable link, L, interposed be
twen the rods, G K, ier rlie purpose or' regulating the extent as
well ns the time of the motion of the carrier, M, substantially as de-
scribed.

9,968.-Corder for Sewing Machines. -J. W. Brady, Baltimore, Md.:
I claim the corder. E F G I I, substantanily as described and and inio the angie fortined between it and the secoudiry told.
and
second, Ictain the combination of the devices. sulutantially as
described, by which the corder shank is moved vertically laterally described, by which the corder shank is moved vertically, laterally,
or backward and forward, accordine to the requrements of this
work
9,969.-Apparatus for Packing Rubber for Dental Pur-poses.-F. C. Brown, Palmyra, N. Y.:

 IThe object of this invention is an apparatus intended to force rubber around the teeth in making artificial dentures.]
49,970.- kinding $\Lambda$ ttachment to Reaping Machines.Jacob Behel, Rockiord, Ill.:
I chim, first, fie arrangement of tine cog-wheel that transmits mo-
ion to the ring carrier of a binding apparaus upon the axk of ond seoond The combination, in the same bindens apratatus, of a rigy carrier intid viluratint tension arm to conatol the comprissing Ihird, The cointination of the ring cairrier of a hinding apparatus
with a strap holder, of sutable size ind form to seize and told the
 escapement, which pen mits the compressin's strap to reliux its grasp
upon the gran and subsequentiy to be withdrawn from tue shear, upont the graun and subse
sustiutiglly as sot orrth.
Fiith, The comlination
Firthe, The combination of the twining cord holder with the ring
carricr, zustantialy as set forth.
Sixtic Tis complnation Sixtli, Tive commonation of the twining cord hodder and ring car
rier with the grooved case, substantially as set forth Ser with the groved case, substantialy as set spot and its friction apparatus with a swinging hrume and cord guicie, substantally as
set forth, so that the tension is retased by driwing the bunting ma terial from the spool.
Eighth, The cumbination of the proving frame of the tying bill
with the fixed rannework or the bindrag apparalus by toggle-jointed imks. substa, stiallipas set torth.
Ninti, The combination of the sloted plate for holding the cor band with the guide plate lor guiding it into the slot of the $\ddagger$ aid
pate, substantally as set forth. Tecth. 'the culubination with the cord holder of a movable pro Eteventh, The cembination of the tying bill and movable knife,
substantially ns set forth. ubstantialy ns set forth.
Tweilth the connoina of the knife and the instrument tor ransmitting motion to the eocapeinent of the compressing strap
 49,971.-Cork Machine.-Harris Boardman, Lancaster Pirs, I claim a chamber, a II I. made aujustable in itself, inde
pendently from the adjustability of the bed plate, $A$, operated sub stantially in the manner and for the purpose set torth.
Second, 1 clai m the construction and operation of the spindles o second, 1 clai m the construction and operation of the spindles or
graspers, V w, and their appltances. arrauge and in combination
with the erade, , operating joinuly, subscantially in the mane
and to the pur and tor the purposes set forth.
Third, I claim the employnent a tumbler, $K$ o o, hanger, or it quivalent, substantially applied in the manner or lor the p,urpos Fouvi $\mathrm{h}, \mathrm{I}$ clainu the raising and dropping of the knife, E , for the
purpose of giving the finisling cutto the cork, actuatel suostan
ially in the manner spectied. 49,972.-Coal-mining Machine.-E. K. Bruce and Jno M. Bruce, Liberty, Ya.
 H, all constructed and arranged substantially a.s and for tue pur
pose specitid.
second second, lhe application to the drills of spiral flanges with grad
sally lncreasing pitch, substantially as and for the purpose uescribed. [This invention relates to a machine which consists of series of horizon tal drills laying parallel with each other, and rota ting simultaneously by suitable gearing in the rear of the trame which forms their bearings. The trame moves back and forth, in suitable ways, in the side timbers of a truck, so that the frame can ruck rests on wheels, and can be moved in a direction at righ angles to the motion of the drill frame. 1
9,973.-Machine for Sowing Plaster.-Alpheus Bugbee I clam the shave and construction of the double forks and stir res, E, When arraned and for the purposes set forth. rers, $E$, for the purposes set torti.
49,974.-Sorghurn Evaporator.-Ransom Bullard, Litch field, Mich.
 through the medium of a slow conductor, substantially as and I also claim the descrived method of constructing and uniting th 49,975.-Amalgamating Apparatus.-W. H. Butler, Chi
I clain feeding the quartz into the amalgamating vessel by a
orced feed, and nolding it immersed or submerged therein by press ure, while it is thoioughly stirred and nuxed with the a malgam, tially as hereiu described an. 1 represented
49,976.-Harvester Rake.-Wm. J. and Rhutson Case Pittstown, N. J.:

Wor the purpose set iorlh.
Second, The urrangenent of the wheel, H, provided at ita uppe

IThis invention relates to a new and improvel automatic raking device tor harresters, and it consists in a novel means embloyed fo whereby the cut grain mas be rakedfrom the platform withe same, rially increasing the draught of the machine, and without interfer ing with the other working parts thereof.J

49,977. - Washing Compound.-R.W. Chappell, Chicago, III.: I claim a washing compound, composed of the herein-described
ingred ins, in the proportions substantially as herein described and 49,978.-Implements for Contracting the Barrels of vatch Main Springs. -Andrew S. Clackner, Rochester, N. Y.:

 49,979.--Oil Cin. - Benjamin Clark, New York City:
 psrred
49,980.-Knitting Machine.-Wm. W. Clay, Philadel phia, Pa.:




 medeedim of the devices hereinerated described, or the equivalent to the
mame, for the purposespecited 49,981.-Planing Machine.-Jeremiah Close, Brooklyn,
 49,982.-Hinge - Jeremirh Close and Ira Buckman, Jr. Brooklyn. N. Y
In a hinge compised of three leaves and two pintles, we claim op-
erating the two outer lee ves by a power located witlin a cavity or

 D, on the shatt of the out
purposes hercin set forth.
49,983. - Lubricating. Compound for Journal Boxes, ${ }^{\text {TE Etc. }}$ First, I clall Colby, New York City


combustable substance incorporated fom therevsestos, and with hithout any tween rubbings siriraces, and saturatel evith the thenicator above
described, in orler to produce an anti-friction surfac tor the iour destrised oan oruer to produce an anti-friction surfac for the jour
described. machinery and other like purposes, substantialy as described
49.984. -Lamp.-M. H. Collins, Chelsea, Mass.

 49,985.-Weeding Hoe.- Cliarles Crofut, Weston, Conn.
 the purpose sulstantially as herein uescribed
49,986.- - Umbrella.-Wm. Damerel, Brooklyn, N. Y.:
 of such artides are attachied as that the said crown piece and the
patrsattached toit shall be capaule of rotating on the stick, sul
stan stantially as deseribed,

49,987.-Ferrule for Boiler Tubes.-Geo. W. Durall, Norfolk, Val.:
 49,988.-Spinning Machine.-James Eaton, Boston,
Mass.: Mass.:
Other sp a cylindrical spindle, either solid or tubular, of a mule or
forth. forthiso claim the cylindrical tube or boblun, either with or without
tha ferrule or band,, , in combination with a spinde having a heli
 49,989. - Decarbonizing Clay Retort.-G. W. Edge, Jersey City, N. J.
Iflain the use of a mixhure of steam and arir, produced by mean

49,990.-Clutch or Rope Holder.-C. A. Emery, Spring.
field, Mass. field, Mass.:
I clalm the device constructed, arranterd and operating substan
tially an shown and explamed and for tbe purpose speciifed. 49,991.--Lock.-Jacob Euteneur, Peoria, Ill.:


 49,992.- Sleeping Car--Ben Field, Albion, N. Y., and
 tended to meet the seat cushion of the opposite chair, in the man

 porth.
49,993.-Lamp Chimney.-J. G. Floyd, Keokuk, Iowa:
 esigned or the same pur jose
49,994.-Cartridge Retractor for Breech-loading Fire-



49,995. - Method of Treating Oil Wells for the Rembval I of Paim the empliogment of carbonic oxide for treating petroleum
wells to remove obstructions, composell of paraffine and other de
posit, substantially as set forth. 49,996 - Bottle
Weymouth, Mass.: aim mouthlic Mass.i
 c, and arranged. and applied snbstantially as ind for the purpose
herein se forth. herem se .orth
iThis invention
attachment for cork stobers for rendered extremely durable, capable of bentug readily dravn from the bottles, and enabled to stop the botllesmuch tighter than usual. 49,997.-Combined Seed Sower and Stalk Cutter.-B. A. Grant, Mount Pleasant, Iowa:

 s the connectiag
stantiall
as
lierein spec
 49,998.-Sugar Cane Mill.-James Harris, Janesville,

 becond, securing and adjusting the spring atatachment or a roller
bearngby means or the yoke, L and set screv, den $^{\text {substantially }}$ as 49,999.-Extension Lever Jack.-W. H. Hartman, Fostario, Ohio
Iclaim the do Claim the doogs, hand, spring. $f$, band, e, stirrup, e, in combina
 50,000. - Manufacture of Candles from Paraline.-Chas.
Havard. New York City:
claim a new. and improved process for making candles or blocks
from the paratine of petrolcum, as hereia descrued, using for thit putpose the atoresaad inyredient, or componitiou of, matter, or any
other substantially the same, and wlich will produce the intended 50,001 .-Rock-drilling Machine.-Robert Hood, Dayton,


 50,002.-Chinnney Cap.-William Henry Horton, Jersey Cily, N. J.: cap, A, closed at the apex and open at the sides,
 purpose herenn specitied
50,00
50,003.-Wind Wheel.—John A. Hubbard, West Moulton Iclain. First, A wind whel provided with oblique buckets, b , in
connection with a vanc, D , having a stite ranest to operate in the minner substantially as and tor the pur
pose set forth. Second, The gate, F, , and wind whect, C , constructed, arranged
and operating in the maner substantiall, as and for the purpose
 tane end and connected with the cone,
purpos specifed.
$50,004 .-$ Fog Alarm.-George Hull, Wallingford, Conn.: tclaim the conibnation of a a coil of tubing, C, and one or mor
whisties. E, when constren 50,005.-Gate Post.-G. O. Hutson, Iowa City, Iowa : Itciam the combinatiton of the thate post provided with shouider

50,006.-Compound for Destroying Vermin.-J. Burrows Hyde, New York City:
I claim a mixture of extract of tobacco and petroleum, for the purposes set forth.
50,007.-Saddle Stirrip.-Andrew Ivion, Femme Osage Mo.:

 purpose set forth
50,008.-Shoe Lacing.-Timothy J. Kelleher, Boston, Mass.:
Yclaim the above described improved arrangement of the stud
chin the langs with resp ct to the two faps of the opening.

50,009.-Churn.-Elisha IKenney, Livermore, Me,
I clam, First, The a rrangement herein described of the geaa
mechanism in reference to the dasher, in combination with the ad

 apertures, substantially as set torth.
50,010-C Car Coupling.-John Lacey and George Wat-
kins, Bristol, Wis. Antedated Sept. 10 , 1865 : First, We claim the hook, B, arrauyed in res, cet to the drawhead shown.
Second, We claim the employment of two hooks, B B, comline
and arra,
and purposes delineated and set forth

50,011.-Instrument for Opening Sealed and other Cans - Samuel D. Lecompte, Leavenworth City, Kansas: In claim an instrument for opening frutt ad dethier
[Thls invention consists in the construction of a smimple and easily up truits, preserves, etc, the same consisting of a bar provided with a suitable kn:te, which is adjustable, and one end pointed and bent in such a manner that a fulcrum will be provided in which to turn einstrument after the said end bas been thrust through the to of the can.]
50,012 .-S
0,012 .-Stop Motion for Knitting Machines.-Mark Lee I claim the improved stop motion composed of the upright stand,
A, the bars, E E, with tbe y yrn scraper, ir the droper or bar, H ,


50,013- - Mode of Supplying Railway Trains with Water. Llaim the errangement, Wa hashingtoton, L. C. C.:


50,014.-Artificial Hand.-Oliver Lindsay and Isaac
 0,015.-Lubricating Compound-Isaac Losslel, Philadelphia, Pa.:

## I cla m m a libricating compound consisting of the combination of he 1 nomedients heremim described, in the proportions substantially as

 the ingre,spectifed.
50,016. - Weather Strip for Doors.-Isaac F. A. A. Lynch,
Roxbury, Mass.:
claim the improved weather strip as made with the strip of


 50,017.-Trace Buckle.-David F. Maine, Mansfield, First $I$ caiaim the use of a vise, constructed substantially as desnecin, I claime tue cam and spring, constructed and used sub-
stantially as above described. 50,018.-Cultivator.-Abraham J. Manny, Freeport, Ill.: yote, F , or rats equivalent, for the purpose of giving birection to the
 epresented.
Thirin, frembination of the triangula frame, with the devices
or changing the direcuon of the maculane, as and ar the purpose specinead, The combination of the levers, $G$ and in II, with the plow
beams, as and for the purpose herein specinied. 50,019.-Lamp.-Charles F. Martine, Dorchester, Mass. nntedated Sept. $10,1865:$
clain the perforited

50,020.-Rock Drill.-John M. May, Janesville. Wis.:




 to be revolved Lorizontally at the same time it is operated vertically



 $50,021 .-$ Screw Driver.-James S. McCurdy, Bridgeport Conn.:
 50,022 . - Construction of Cans.-Henry W. Millar. Utica, N. Y.:

I flaim constructing the bottom and securing the same to the body
or the can in the ma nner sanwn aul descrivelu.
[This invention Consists in constructing a bottom for a can, pailcr other metaliic vessel, im a conical form, or in the form of a frustrum fo conc, its apex or point extending upward into the cone, so a may be desirable, to aford a better opportunity for drawing of the entire contents of the can by taucet or the like.]
50,023. - Grate Bar Supporter.-W. F. Morgan and F C. Bartlett, New York City. Antedated Sept. 6 We claim
 space,, intervening bet ween it and the main bars, 1 , a id with th
1oops, $X$, or the the equivalents, supporting the truss bar, a, in sucl mannor, that the expansion and contraction or the that ate shanch bo
ailowed by siding one upon the other, substantially as herein set
$50,024 .-$ Spinning Jack-H. L. Moulton, Camden, N. J.
 With such appliances that they shall be simultaneously elevated as


 hhe whole being arranged, constructed a nd operated subsiantially a

 vith the system of delivering roliers, and the inter mediate system o earing described, or its equiva ent. Mhereby a positivemotion and
crtain starting and stopping of the delivering roliters are etie:ted. 50,025-FFlour Sifter.-James Myers, Jr., New York I claius: sieve for family use, constructed in the form of a semi
 sieve and haviog upon it a series of
substantialy as shovn and described.
50,026.-Boot Heel.-Erastus Niwhall, Lynn, Mass.
 50,027.-Fruit Jar.-P. Pallissard, St. Anne, Ill.


['This invention relates particularly to the means of filling tle ja and of closing down its top. The top is provided with two openings, anglear throughit, one being intended to introduce the liquid rom the the jar is to be inled, and the other to let toe air escape which suitable set screw-serves to press the top down upon the neck of the jar. The hook straps catch under the bead which encircles th neck, and they are easily removed and attached to jars of different size and diameter.]

50,028.-Bolt Machine.-Hugh M. Phillips, Indianapolis, Ind.: First, . I claim the bolt anvil, as described, when operating in con-
nection with the gagej block, $G$, substantially as an for the pur-
poses set forth. poses set forth.
Second, The dest, K, , operating in connection with the die, $\mathbf{B} \mathbf{B}$,
to prevent the samefrom opening while the head is being formed. to prevent the samef rot
substantially as sel torth
50,029.-Apparatus for Carbureting Air.-E. A. Pond and M. S. Richardson, Rutland, Vt.:

orth.
Second, In machines for generating illuminating gas b.v charging
 antially as herein set forth.
 claim the employment of an elastic or flexible air jailirart
lourth, In machines forgenerating illuminating gas by charging
Itospheric air or lydrog en with the vapor of hydrocaroun fluid
and rourth, In machines forgenerating illuminating gas by charging
atmospheric airor ly liogen with the vapor of hydrecaron fuids.
we claim te emplovment, in combination with an air or gas pump of a cock work or other spring.pover waschan ism, arranged t
perate the said pump, substantially as and for the purpose se Fifth, In machines for generating illuminating gas by charging
tmospheric air or hydrogen with tho val or of hydrocarbon fluids atmospheric air or hydrogen with tha varor or hydro-carbon fuids
we clam the combination of the following elements:-
First, A flexible or elastic diaphragm pump, or other pump perating without the use of water or other liquid.
Second, A tubular vaporizer, substantially such as herein
Third, A spring-power mechanism to operate the pump, substan
50,030.-Gaiter Boots.-Thomas Powell, Richland, Ind. I claim the employment or use in saters or shoes of a doulle
olong gore, $\mathbf{B}$ stitcched by the side or a vertical cut or sit made
on the upper leather from the stop downer in the upper leather from the top downward, at the raar of the stantiallyas and for the prirpose set forth.
50,031.--Snow Plow.- E, A. Putnam, Oakfleld, Wis.: plows, arranged in such a manner that they may swing or work on plows, arranged in such a manner that they may swing or work on
puvto on a shaft and by means of springs, or theie equalatents, we
kept to their work, and still allowed ro pass over bstructions, sub stantially as set forth.
Se cond, The bars, B, p
the spings and plows attached to them in in such surfaces and hanner that the eeting with any resistance from the springs, substantially as de scribed. Ope rating the sliding: bars, B, through the
Thurd,
crank and slotted plates, substantialiy as set forth.
LThis invention relates to a new and improved plow for removin the snow from the inner sides of the rails, where the flanges of the wheels run. The invention consists in applying plows to a ca ruckin such a mannerthat they will be held down to their wor解 oad-crossing or a switch track.
50,032.--Barber's Chair and Stool.-Henry Remick Portsmouth, N. H.
eceptacles, substan tially as above described fording legs and with stool, $P$, constructed substantially a Third, 1 also claim the combination of the chair, A , and stool, P Fourth, I also claim the rests for the feet, $W$, constructed with an
upholstered and a barred side, substantially as shown. 0,033 Fed
0,033.-Fhiladelphia Pa. Apparatas.-G. Adolph Riedel I claim, First, 'the vertical reciprocating receiver, c, constructed,
pose set forth.
Second, The combnation of the rod, I , with the receiver, for th purpose of opening and closing the communication between the
feed pipe and the pump or injector, substantially as described.
50,034.-Automatic Boiler Feeder.-G. Adolph Ried $\epsilon 1$ Philaderphe Pa. Anteciver II
the comm, Finst, The oscillating receiver, If, for opening and closin arranged with the valves, co and L, substantialiy upon the prin
ciple and in the manner above set forth.
secoud, The lever, M, constructeu substartially as clescribed, an combined and arranged with the receiver, H, and valve, L, as and fo
0,035.-Automatic Boiler Feeder.-G. Adolph Riedel
Philadelphia, Pa. Antedated, May 11, 1865:
 manner herein set forth
50,036.-Machine for Manufacturing Sheet Lead.-John
Rebertson, Brooklyn

justable dies, and the supporting and adjasting nut of the central
bolt which carries the male die, ssibstantialv as herein described,
whereby provision is made for forcing out the lead in a downwara dhereby proviston is made for forcing out the lead in a downwar
direction, and convenience is aftorded for a dusting the dies to reg

0,037.-Compass.-Paul Roessler, New Haven, Conn. and at the reversable socket, presenting a a one end a steel point
50,038.-Cigar Wrapper.-Cristopher E. Roffee, Barring
ton, R. I.:
I claim, making an artificial wrapper for cigars, by covering the
common brown paper or commerce wwth a coating of paste made
from tobacco, in the manner substantially as described. 50,039 .-Composition for Refining and Hardening Steel.-Henry Rescoe, New York City:
I clain, First, The use of a composition, convisting of cillorate of
potasin and carbo nate of seda, for nardening nd retining steel. Sccond, The usis of borax, in connection wit
potash or carbonite of seca, or both combined.
fThis invention relates to a composition which willrendercommo teel it for good tools-which will restore steel that has been de stroyed by overheating, and which prevents steel from cracking in hardening.]
50,010.-Fleece Folder.-Charles W. Rudgers, Brecks-
claim the hinged head block, $\mathbf{D}$, and aujustable follower, $H$, in combination with the leaves. C, strap, F, andspring, $B$, or its equiv
alent, operating as and for the purpose set torth. 50,041. - Hand Loom.-John Seaman and Wm. Y. Hen derson, Ansum, Tirst, The drivers., t, and cam disks, a2 a2, in combi
notion with the lay, L and with the shutter of a loem, constructe
 he hediliesand that of the
nd for the purposeset forth.
50,042.-Piano Stool.-Gcorge A. Sherlock, New York Clity:
cham arranging the seat of a piano-forte stool upon ity body in
substantially the manner described and for the purpose secifled. I also claim, in combination
$r$ r.for the purpose explained

IThis invention consists in so arranging the seat of a pianoforte
stool upon its body portion that it can be readily adjusted and se $t$ any desired hight from the floor, so as to adapt it to the varyin hights of persons using it.]
50,043.--Graduating Boot and Shoe Patterns.-Nathaniel Silvester, Boston, Mass.:
I clain, First, The steps or graduators, constructed and arrange
substantially as described, for the purpose o! graduating boot and Second, The combination and arrangement of the arms, A B
sent
 50,044.-Spinning Jack.-Augustus and George Simpson, Woonsocket Falls, R. I.:
 50,015.-Auger Handle.-D. Y. Smith, Joliet, Ill.: I claim, in combination with the auger shank and head, and the
he the slot, d, so as to compensate for and take up, all the wear bet ween
the shank and its socket, and hold the auger' alwavs tightly to its
handle, substantially as described. 50,046.-Means of Attaching. Sheer Poles to Standing

Rigoing.-Edward Smith, New York City

 50,047.-Baling Apparatus for Packing Tobacco.-I. H Stone, St. Louis, Mo.
First, I claim the retaining bars, E and keys, x, for the purpose oon as the pressing operation is pertormed.
Secone, I casinthe employ ment of the T-lever, M, and the hinge
props, L, in connection with the posts, $L$,', and hooks, $i$, and phate irops, L, in connection with the
ir as and for the purpose set forth
'rhird, I claim the joint bolts, b

50,048.-Breech-loading Fire-arm.-T. L. Sturtevant, Boston, Mass.
I claim the combination for elevating the barrel, and operating
the cartridge-shell discharger, in manner as descrited, the same con sisting of tue lever, D, the sprnng. h, the stư, i, and the spring
atcth, lis, the whole being arrange together su bitantially as set
and

## 50,049.-Lubricating Compound.-David C. Taylor

 I claim a lubricating compound, made of the ingredients herein set for $h$ a and mixed together in the manner and about in the pro[This invention relates to a compound which may be used to ad antage for journals or bearings of any desired description, an which is particularly intended to [prevent said bearings from run ninghot.50,050.-Snow Shovel.-D. N. Thayer, Mayville, N. Y First, I claim a snow shovel, which is provided with a guard, C
extending transversely acrossits palm, and also a handle, c , or it
equivale Second, In a skovel, in which the handle and blad eare on a straight
line, and in the same piece, I claim the hand protector, d, , fyllied to 50,051.-Car Brake.-W. W. Todd and John Vandercar Brooklyn, N. Y.
We claim the segmental cogged plates, A A', operated by the foot
tat either or bothends of the car at the saine time, by means of
levers, 1234 , arranged in the manner and for the purpose substan lially as described and shown in the drawings.
50 . 52 . Cultivator.-J. P. Tostevin. Racine, Wis
Hirst, I claim the combination and arrangement of the tongue, A
when extending back and joine to the cross piece, C , substantially hen extending back and joined to the cross piece, C, substantially structed and operating substancially as and for the purposes se
forth.
 described. ingsubstantially asherein specified. structed aud operating substantially as and for the purposes herein 0,053._-Valve of Steam Engine.-C. W. Tremain, Mem First, I claim the cylindrical steam chest, H, with grooves or pipes, A, partly encircling it, the simme forming steam passages t
the cylinder, substinntially as described.
Second, I also claim, in combination with the groovs, A , the pro
 oles for the passafe, Third, 1 alsu claim in cylindrical valves which have reciprocating
motions in their chests, , maling openings througlout theid length
to permit steam or other flins to pass to that end of the ches
which is furthest from the induction passage, I , substantally as de $50,054 .-F l o u r$ Sifter.--L. W. Turner, Meriden, Conn. 1 claum, as anew article of manufacture, a'flour sifter, compose
of suitable case, a conncal sieve and a revolving frame. when the frame is composed of spirally fitted blades, and a brush or brushes
and the whole is fitted for use, sulustantially as herein described. 50,055.-Beer Cooler.-Francis Uhrland, Buffalo, N. Y. First, I claim a beer cooler, with an adiustable cover, substan
tially and for the purposes herein described.
Second, I claim the main tube, E, and the cover, A, in combina Necond, I claim the main tube, E , and the cover, $A$, in combina
tion with tubes or pipes, D D D 50,056.-Beer Cooler.-Gardner Waters.-Cincinnati Ohio
I claim the cooling of beer or other liquids, by passing the same medium through the beer, by means of the rotating lantern cylini-
der, B, or tis equivalent, and die outer case. A, combined and ar
ranged tor the purpose, substantially as herein 50,057 .-Shoe.-Fitch Weed, Middleboro, Mass.: and sewed to each of the quarters, a a of the upper, and runnin rom the top town to the heel of the sole, substantially as hereinbe
rore specified 50,058. -Instrument for ; Canceling Postage and Reve nue Stamps.-C. S. Wells, Chicopee, Mass
 tube, D, the above parts being withina a case. A, which constitute a the cutter turns within ine paper. and and remaining stanged in connenary, whill
tion witl
sring, E, to operate in manner substantially as and for the purpose herein set forth.
50,059.-Trunk.-J. H. Whitfield, Buffialo, N. Y. Antedated Sept. 15, 1865 .
Iclaim a double trunk, opening front and back, with the cot open
ini in tront, the cot having double bars, D aud F , of wood and ron
stavs, I, at heir joints, and folding legs. L, with ho oked stays, M and the lid, B, as a rest or place tor the pillow, and shelter tor the hurposes sset forth
0.060.-Horse Rake.....H. C. Whitney, Coxsachie, N. Y. I clain the combination of the revolving rake head, y, lever, $k$,
forks, Il, and projections or cams, $i$ with $t h e$ arms. $f$, and lever, $s$,
substantially as speclied.

50,061.-Air Engine.-Stephen' Wilcox, Jr., Westerley 50,061.-Air Angine, shephen W
R. I. Antelated Sept. 9,1865 :
 and for the purpose herein se Second, I claim causing the induction valve, I, to act as a variable
throttle ralve while saintaining a unitorm or ncarly antorm orint
of cut-oft, substantially in the manner and for the purpose herein Third., I claim mounting the saf ety valve, o, on the compressing
iaswn, a2, of a hot-air engine, substantially as and for the purpose Frcins set, forth
Fourth, I claim constructing the cylinder, A, or pump, 'a', o
ooth, of sheetmetal, in the manner and for the purpose herein se orth.
Fifth, I claim, in connection with the last, the ventilated jacke
or protection, A3, constructed and arranged substantially fn the
 the cylinder, and arranged
purposes herein set fortl.
50,062.-Hot-air Engine.-Stephen Wilcox, Jr., Westerley, R. I.:
First, I Claim the pipe, 3, connecting the interior of the furnace Second, I claim the loaded piston, $t$, in combination with the cock which the petroleum flows from the reservoir, I, to the furnace, $B$, B, substantially as and for the purpose herein set forth.
Third, I claim the arrangement of the heat conducting spurs, 13 burner, se and evaporator, 12 , substantially as and or the purpose
herein set forth
Fourth, Fourth, I claim connecting and combining the fly ball or equiva
ent speed governer, R. wht the piston, 1 , or its equivalentit, fo
controlling the issuc of hydrocarlon vaporinto the turnuce of an controning the issuc oin hy aro-carion vapor into the eurnace of an
air engine, subtantially as and or the purpose heren specitied.
Fith, I claim, in combination with an air engine adiapted tor th
 when partly closed, all substantially as and for the purposes herein
set forth. St firth, I claim the employment in an air engine of an elevate
Sixther reservoir, 1 , evaporating device, 12, and a regulating device, 11 , act
ing oo the hyro.carbon after its change to the vaporous form, the
several partsbeine ar ranged to oper ate together substantially in the several parts being ar ranged to oper ate together substantialis in the
manner and for the puaposes described.
Seventh, I elaim the arrangementof thevapor burner 9 metallic globe, 14, , ress-air passages, 20 , and jets, 10 , relatively to each other
and tothe evaporating pan 12 or its equivalent, adapted to receive
heat trom the metallic globe, 14 , substantially in the mann er int or the purposes herein sec forth.
50,063.-Bottle Stopper.-J. A. and G. E, Woodbury, First We Cambriage, Mass.: A provided with the packing, nirst, We claim the hinged disk, B, provided wit withe packirg, e,
app hasp, Cor their equivalents, in combination with the wire, F
apo mouth and neck of a bottle, substantially as and for second, The fixed ring or seat, $M$, provided with lugg, n $n$, projec
tion $h$, and pacting, $e$, and linged to the disk, $B$, substantially as Third, Forming of the twisted ends, , of the wire, F, a catch fo
the hasp, C, substantially as described. 50,064.-Seat for Water Closets.-Eber Woodruff, Chi Cago, Ill.:
First, I claim the combination and arrangement of the hinged
eat, $D$, and pivoted cover, $C$ C, when operating substantially as and ser the purposives specififed, C C , when operating substantially as and
Second The combination and arrangement of the hinged seat, D and pivoted cover, C C, and wedge shape pieces, I.and J, when, ar
ranged and operated substantially as and for the purposes herein
described.
50,065.-Seed Planter.-Alpheus Bugbee (assignor to First, I claim the construction and combin ation ot the spurs, $F$
ith the carriage axle or single shatt, B, to operate the seedin with the carriage axle or single shatt, B, to operate the seeding
side and agitate the grain, as herein described. second, 1 also claim suspending the teeth, C, at their backside to he rear ends of the arms, $I$, as described. Third, 1 also claim the arrangement, construction and combina
tion of the pates, U , with therr vibratng bar, $W$, operating in a
lotted $V$-shaped hopper, S , as herein described, for the purp sloted V -shaped hopper, s , as herein described, for the purpose of
sowing grass seeds. 0,066.-Harvester Rake.-Wm, F. Cochrane (assigno
to himself,'B. F. Warder and J. C. Child, Spring First, I claim the comlination of the goose-neck or arched rake its pivot. with the guide slot and switch latch, substantiallv in the manner and for the purposes described.
Second, The lcombination of the guide slot, the switch and the
 purposes set forth.
Thira. The combation of the rake head, swivel ring and adjust
ing washers, arranged and operating as described. 50,067.-Paint Brush.-Samuel P. Faught, Foxboro, Mass., assignor to himself and William T. Cook, Boston, Mass.:
Heation with the conical, wedge, $D$, and screw, e , sulstanticlly as
bination forth. 50,068. -Paint Compound.-Darwin P. Flinn, Geneva, N. Y., assignor to Wm. S. Miller, New York City: I claim a paint composed of oxide of zinc, lime. resin, linsced oil
nd milk, in about the proportions hertiuspeeified. 50,069.-Heat Radiator for Stove Pipes.-N. F, Good L. Holmes, Haydenvillo, Mass

I claim the central pipe, C, provided with:a damper, D, in combi
nation with the pipes, $B$, and chambers, $A$, all arrangel substantle purpose specified.
[This invention relates to a new and useful improvement in a heat vice for the purpose.]
50,070--Brick Machine.-Isaac Gregg (assignor to Isaac First, I claim starting the pistons or
First, witham starting the pistons or followers of the mulds, th means of the inclined. B B 3 , , or their equivalents, acting upen thit
stems, a, of the said pistons, subsitantialy in the manne de cribell tor the purpose of sa ving power and relie ving the litting levers of th, Ing, ard
and brickst one one operation.
second, I claim periodicall changing the direction of ihe current
 purpeses specitied.
Third, I claim the arrangement of the steam-heating chambers,
D 1 , in combination with the plates, d2 $\$ 2$, near the ends of the


 ers, asan d for the purpose described.
Fifth, I also cleinin controlling or starting or stopping the machine
ft will, by means of the apparatus consistins of the liand wheci, I,

 ,071. Cooking Stove... Marcus L. Hortnn, Claremont, I claim the open space, D, and apparatus and register, A, a sar

## ranged and in poses set forth

ranged and in combination, operating as described and for the pur-
poses set torth. ${ }_{50,072}$ posed Cooking Stove.-Marcus L. Horton, Claremant, N. H., assignor to Sidney Smith, Greenfield, I Mass.:
I claim the E, with cap, $A$, and improved flue, $C$, as arranged and
in complination, operating as described and for the purposes set
forth. 50,073.-Coal Stove.-Zebulon Hunt, Hudson, N. Y.,
assignor to himself and Wm J. Miller: assignor to himselr and Wm. J. Miller:
First. ICliaim the e iouble fulue, D, D, in combination with the cir-
 circular
set forth
en
50,074.-Machine for Shaping Crimping Forms.-J. H. Jellison (assignor to C. and J. R. Pierce \& Co.), Milf ord, Mass.:


 50,075 ,-Gas Burner-Hurh L McAvoy (assi
himself and E. S. Hugh L. L. McA Non voy (assigno
 50,076.- Apparatus for Carbureting Air.-Hugh L. McAvoy (assignor to himself and E.S. Hutchinson),
I clain, Ihrst, Mhe described gearing and shafting by Flyich the
motor shat,

 (iisplacement is increased as it sinks in the thlid.
Fourth, Theautomatic valve, i, in combination with the chamber,
ren



50,077.-Apparatus for Purif ying Kaolin, Etc.-Thomas Mow Yor Cornwal

 aup pleature, by means of whicl gates the said paspase or the water
with the mineral cin be regulated acoording as may be necessary, Second, Delivering the minerai, arter having been dressed, in any proper manner, to one or more suitable receivers or tanks at or
near the bottom thereof, substantially as and for the purpose speci
 50,078.-Rocking Horse.-Leven C. Percival (assignor to himself and E. H. Deemer), Philadelphia, Pa.:
 attache st the cranto the thear axle, while the torward parts are
lett free, substantiall as described. seon, The guiding bridec line oonnecting from the bit to a place
near the pivotal point of the. horse, und from thence with the for

[This invention relates to a novel arrangement of a rocking horse, by the rocking morement of which its carriage is propelled, and con any desired direction, and also in the use of frames connected in such manner to the carriaget tat itswheels can be lifted from the ground, and thusthe propulsion of the carriage prevented as the
h orisi is rocked.l
50,079.-Leather Roller.-D. H. Priest (assignor to himself and B. S. Harrington), Boston, Mass.:
 Second, Iclaim the eombination of the toggles and the levers with
the aldustable bed, provided with a feeling roller and the winding
ander or shatt. 50,080.-Cotton Gin.-Francois Durand (assignor to E. ondonin), Paris, France




 and f
50,081.- Process of Collecting Spirit During the Refining
of Sugar.-Francis Reid, Liverpool, Eng. Ante
dated June 21, 1865 :
 the man
forth.
for
to
50,082.-Manufacture of Gun Cotton.-J. J. Revy, Vienna, Austria:
I ciaim an explosive compound made substantially in the man
ner and for the purposes described. 50,083.-Manutacture of Gun Cotton.-J. J. Revy, No.











50,084.-Mode of Making Bars, Sharts, and Other Artiticles Composed of Iron and Steel.-Charles San-

 process. and the uniting of large masses or the above metals, in
which thie combination is effected, in the manner herein described 50,085-Apparatus for Preserving Beer and Other
Liquids.-Thomas Byrne, New York City: Liquids.-Thomas Byrne, New York Citv:
 seond, The appication of a fexexible evsel for containing, and
from which to serve, liquors on draught, substantially as described 50,086.-Chimney Cap.-E. Hinkley and G. W. Crowell,
Cleveland Ohio
C claim the cap, A, the standard, D, andllink, b, in combination
with the pate, c.the several parts beenn constructed and arranged
as and for the purpose herein set forth. as and or the purpose herein set forth.

## REISSUE.

2,073.-Manufacture of Iron.-John D. Williams, Alleghany City, Pa. Patented Aug. 8, 1865. Antedated Jumy, 185
I clam the use of the ingredients herein named, and their equiva-
lent, tand the ode of usin them. and the maner of operation the
fumace, substantialy as de scribed, and for the purpose set forth.

## DESIGNS

2,173.- Bust of Abraham Lincoln.-Henry Manger, Philadelphia, Pa.:
174.-Carpet Pattern.-Elemir J. Ney (assignor to the
Lowell Manufacturing Company), Lowell, Mass. 75.-Carpet Pattern.-Elemir J. Ney (assignor to the Lowell Manufacturing Company), Lowell, Mass. L76.-Carpet Pattern.-Elemir J. Ney (assignor to t
Lowell Manufacturing Company), Lowell, Mass.


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found you faithful and devoted to the interests of your clients, as well found you faithul and devoted to the interesto of your cilients, as well
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