Government, an account, however, being kept for the remuneration of the patentee. The power of the Crown has reference only to the granting of a privilege, and not to any right in the invention, having no knowledge of it, and it was very different from those grants where there was some prerogative right, or a presumed prerogative right, possessed by the Crown, such as a grant of a fair or market and iranchises of that character. After referring to the several authorities quoted by the learned Attorney General, he said:-
"If the case is to be de ermined with respect to considerations of public policy, how can any officer of the State rise up in his place and say it is public policy, in all cases of munitions and implements of war, to drive every inventor to foreign countries, lecause the inevitable result, if their lordships' judgment should be in favor of the Crown, will be to do that."

Mr. Bovill hit the nail square on the head; and we do not see how any sensible man canadopt any other view of the matter. The Lord Chief Justice, however, intimated that judgment in the case would be rendered in favor of the Crown, on the maxim, we suppose, that " the king can do no wrong."

## becent american patents.

The following are some of the mostimportait improvements for which Letters Patent were issued from the United States Patent Office last week; the claims may be found in the official list:-
Grain and Grass Harvester.-This invention relates to an improved sickle-driving mechanism, whereby a requisite speed may be obtained by a very compact arrangement of parts. The invention also relates to a novel manner of applying the seat to the machine whereby the weight of the driver is made to act in the most favorable manner towards balancing the machine and in assisting in elevating the finger bar. The inventiou alss relates to a lever applied and arranged in such a mauner, relatively with the draught pole, as to cause the outer end of the finger bar to be elevated when the inner end of the same has been elevated a certain hight. The invention also relates to a new and improved shoe arrangel and applied in such a manner as to support the front part of the machine and partially sustain the finger bar so that it will run lightly over the surface of the ground, and at the same time serve to protect the pitman which drives the sickle. The invention further relates to a novel manner of attaching the finger bar to the main frame of the machine, whereby a strong and durable joint connection is obtained. Frederick Nishwitz, of Brooklyn, N. Y., is the inventor.

Arrow Projectile.-This invention consists in the application to a projectile of a telescope stem provided with wings in such a manner that when the projectile is prepared for use said stem can be contracted within the limits of the cartridge bag, but when the charge is fired, and as soon as the projectile leaves the muzzle of the barrel, the stem elongates by its own inertia and gives balance and steadIness to the projectile in its flight, thereby increasing the range, velocity, and also the certainty of striking the object fired at. The wings being secured to the tubular end of the stem clo not intertere with the revolving motion of the projectile if the same is fired from a rifled barrel. The stem is secured to a cap which is perforated with holes, and from the outer surface of which rises a rim with an internal screw thread which screws on the inner end of the projectile, leaving a shoulder for the solt metal ring to rest on, in such a manner that when said cap, with the telescope stem contracled, is introduced into the cartridge bag, said bag can be readily flled with powder through the perforations in the bag, and by screwing the projectile down into the rim of the cap, the edge of the cartridge bag is clamped between the soft metal ring and the shoulder of the cap, and no further fastening is required for it. Capt, Thomas $S$. Orwig, 219 Broadiway, New York, is the inventor.

Rotary Engine.-This invention consists in two revolving piston wheels counected together by cog wheels and placed concertrically in two adjoining cylinders in combination with a valve which occupies the channel leading from one cylinder to the other, and to which motion is imparted by concen tric or other equivalent means, mounted on the shafts
of the piston wheels, in such a manner that said pis- 46,441 ,- Brushes for Cannon.-Paul Birchmeyer, Syraton wheels and intervening valve are alternately acted upon by the steam passing through the channel connecting the two cylinders, and that by the action of the valve and piston wheels one cylinder takes steam while the other exhausts, and vice versa. The cog wheels which gear the two shafts of the pistons together are eccentric, the same as the pistons, so that 1 heir circumferential speed corresponds with that of said pistons. John P. Eilis, of 22d. Reg. Wis. Vol. Inf., Nashville, Tenn., is the inventor.

## MARKET FOR THE MONTH.

The peculiarity in the trade during the month $o_{r}$ February is the absence of fluctuations in the price of gold and other commodities. The prices of the leading staples on the 22d, compared with those on the last Wednesclay in January, were as follows:-
 Copner (Am. Ingot) Fi it.
Cotton (mild ling)
 Wheat $\psi \forall$ bush... Hay \# 100 tb. . 81 Hemp (Am.drs'd) \%s tun. $3 \div 000$ © 190 Hides (citv slang Lead (Am.) $\psi 10$ Nails wis 100 th.
Petroleum (cru Beef (mess) Saltpeter \# 15

$\qquad$ Nool (American Saxony heece) 22
 Gold.

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$\begin{array}{ll}19 \text { (14) } \\ 154 \\ \text { (16) } & 20\end{array}$
$\begin{array}{llll}90 & 16 & 1 & 10 \\ 18 & \text { (16) } & 181\end{array}$ 18 (16) 201


ISSUED FROM THE UNITED STATES PATENT-OFFICE for tae week ending february 21,1865
Remorted Odicillly for the Scicutijic American.
der Pamphlets containing the Patent Laws and fiull particulars of the mode of applying for Letters Patent, specif ying size of model required and much other inormation usefulto inventors, may be had gratis by addressing MUNN \& CO., Publishers of the Scientific American, New York. $\qquad$
46,435.-Horse Rakes.-Hubley Albright, Lewisburgh, Pa.:
I claim, frst, The arrangement of the tecth bars, II, and bent rod, e, the latter beine attached to the axle, $A$, as shown, and in such a
elative position with the rake teeth, $I$, to operate as and tor the purpose set forth.
Secend, The lever, $F$, in combination with the bars, If $F \mathbf{L}$, and the springs, o, all arravged and for the purpose speciffed.
46,436.-Rotary Engines.-Wm. Avens and Frederick Fradley, Brookiyu, N. Y.:
We claim the wheel, A, with one or more sets, of clambers,,
which are provided each with two channels, $d^{\prime} u^{\prime}$, situated at oppo
 $\underset{\text { set forth. }}{ }$
IThis invention consists in a wheel provided witn tiro sets of chambers, to each of whichaccess is had by two channels situated on the opposite ends of the chambers, and tajering off in opposite directions, in combination with a cylinder fitting closely to the circumference of the whecl, and with valves which open and close the steam ports in such a manner that by admitting steam to the cham bers of the wheel a rotary motion may be imparted to the same in either direction, and by a simple movement of the valves the motion of the engine can be reversed at any moment.]
46,437.-Bomb Lance for Killing Whales.-Silas Barker claurtord, Conn.
ance heail, ce, and furse tube, $F$, from the shafc of the lance, sub stantially as descrihed.
second. The arrangement of the adustable hollow exploding lance
nead, C In the manner and for the purpose substantially as liereln
46, 138. - Adjustable Tool Holder.-Charles Petit Benoit, Detroit, Mich.
I claim thica adiustable holder, B, swiveled in the end of the stock, A, so forth, In combination with a a ool-holder, constructed ane mount
set
Second, ed as alo seve specitied, I claim the washer, E, having grooved or
roughened surfaets, and emplojed in connection with the nut, $\mathbf{C}$ roughened surfiaes, and emplosed in connection with the nut, C ,
for retaining the tool-holler in position, as explained. 46,439.-Machine for Riving Hoops.-George J. Bentley, Michigan City, Ind.:
I claim the combination of the grooved wheel, $\mathbf{n}$, with the discy,
F and $\mathbf{F}$, the latter being suspended in hanging bearings, substan-
tlally as set forth.
46,140.-Churns.-Edwin L. Bergstresser, Berrysburg, Pa.:
I claim tbe double-acting dashers, with the sionm reservoir and
ptpe, arranged aud comblned as hertin describeul.

## cuse, N. Y.

Triaim as an article of manufacture an artlllery aponge, concning it by a wrap wiog wire Into the siral groove, the semi-globular
cud being nade by looping in a portion and
46,442. - Weft-feeding Device for Hair-cloth John Blanchard, Pawtucket, R. I. Ante-dated Feb. 16, 1865 :
I clsim the improved feeder for a har--cloth loom described, con
structed and oper ated substantially as herein specifled.
46,443.-Leather and Process of Manufacturing the same.-Guiseppe Bottero, Boston, Mass.:
I claim the process above described, as well as the
I claim the process above described, as well as the material or
manufacture
46,444.-Street-lamp Posts.-Philip H. Branson, St. Louis, Mo.
I claim as a niw manufacture a lamp post, constructed in two
parta, substautially in the manner and for the purpose herein set
forth. Sccond, I claim the employment of the cblpping strips, C", sub.
stantially as and for the purpose set forth.
46,445.-Variable Exhaust Nozzles.-Myron E. Brown, Buffalo, N. Y.:
said haim, irst. Naking a conical nozzle in two parts or halves, the lap past cach othiner, so that when expanded by being moved they their hinges, the lapping larts will prevyutany break or opening be-
twwen tie lialv, s, sulstantially as de cribed and for the purposes
forth. tween
iorth.
secon
zlecond, I claim the flange, $C^{\text {' }}$, projecting inwardly inside the noz2le, for the purpose of breaking joints between the seat und base of
thle nozzzc, und thus, by carrylugthe fanae abuve the juint, prevent
steam from escaping at the tottom of the nozzle, suositantilly ai

46,446. -Tanning.-Church Burton, Union, Maine :
I claim the tanning of hides and skins with evergreen boughs, such
as spruce aud tir.
46,447.-Revolving Hay Rakes.-Ezra Calderwood,
Portland, Mitine :
 [This invention relates to a new and improved revolving rata be drann either manually or by a horse, and it consints in a novel and simple means emplosed for holding the rake in working position, and which will aumit of being readily actuated to liberate the ake, so that it may revolve and discharbe its load when necessary. 46,448.-Machine for Cuttiug Pasteboard.-Elizur E.
Ciarke, New Haven, Conn.: Cirst, I claim the maven, Con







 Mnd cam wheel, a fied bar, actuated by the cam wheel, or any part,

 with detachable cums and clamps and screw bolts to foasten tue cams
to the periphery oi tue wheet, substantially as set fortlo. Sixth, In combinatiou with, a machine for cutting pasteboard, I
claina a slidiug aud uujustuble platform a table
 criator
torth.
or




 46,449 . -Med
, 449 .-Medical Compound.-Mlfred P. Coryell, Janesville: Wis. Ante-dated Feb. 16,1865
specitied, nixed together in abound thade of the ingredien s above
in the manner setiortion, and substantially
46,450.-Horse Hay Forks. James $\Lambda$. Cowles, Chicago,
rrst, I claim the combination of the key or right-ancled
 purpose hirerein set iorth.
Second, The combination of the head, a, landle, $c$, key or rightsecond, The combination of the head, a, handle, c , key or right-
gagled lever, I , catch, 0 o, and bail, in the manner and for the pur-
pose described. 46, 451 .-Door Fastener.-Elliott H. Crane, Jonesville, Mich.:
I claim the combination of the segmental Iatch pleoe, $\boldsymbol{B}_{1}$ vibrating on a pivot within a slot of the plate, A and actuated by the spring, C, by which the plate being fastened in position the closing door
edorcing back the latch piece door has passed thich is forced to return when the edge or the door has passed it.
[This is a pocket contrivance, designed for use wherever a convenient temporary door lock is wanted. The improvement relates to a pezuliarity of construction, ly whlob a spring bolt to employed in such a manner as to have an automaticaction, so that by the act of closing tbe door the latter becomes locked. Tbis is a device tbat
everybody wants, for it can ie instantly applled to any door, without everybouy wants
screws or nails.]

46,452.-Clothes Dryer.-Ephraim Culver, Shelburne, Mass.:
I claim the combination of the slotted and morable arm, $c$, the
movable brace, , and hub, $\begin{gathered}\text { and the screw } \\ \text { tially as and for the purpoge described. }\end{gathered}$ nut, substan. 46,453.- Fishing-line Sinkers.-Ebenezer F. Decker, Southport, Maine :
I claim as my invention the combination of the guard ring, the
line, the esivel, the zinker and thle urms, $\mathbf{D}$ B, the whole being ar-
ranged substantially as apec fied. 46,454, - Plows.-Joln Deer
First, I I claim the combination of the landslde side, A, with the
solid lugs, $3 ; 3$ and he periorated ear, 5 , substantially as and for she purpose ket iorth. corriorated ear, 5 , substantially as and for
second, The lug, 3 , cast on the landside, substantially as and for
tbe purpose set forth. tbe pirp, The guide and fastening ear, 5 , in combination with the


6,455.-Soap-stone Stuve.- Porter Dodge, Perkins, ville, Vt.:
 8ecoud, In combination with the corner pleces, $\mathbf{C}$, secured to the
ootom of the stove, the top picee, 1 , for the por purpose of holting
oth the orner pieces and the top slab, E, of the stove, substan thall y in the mannerpers and the top slab, E, of the stove, substan Third, The combination and arrangement of the inner linings, L
with the outer siabs, B, when constructed and applied substantially
as and for the purpose descived.
Fourth, The combination and arrangement of the tron skelcto
Fourth, The combination and arrangement of the Iron skelcton
frame with some soap-sonesiles, Band top, E inner linings. L outce
iron wort, F, and stovepipe ant achment, subseantally as and for the purposes set forth
6,456.-Car Seat Lock.-Arad Duncan and John M Zlegler, Aurora, Ill.:
 so that when in tis operative position the suid bont will project riom
its case, but be free eto spring
reversed will ve held within the same in closinctand when pin.
iThisinvention consist; in the employment or use for a car-seat ock of a revolving bult, sccurcdin a round case, and provided with projection, which, ly traveling on an inclined plane or cam, as the oit rotates, cause .he cam to recede !n such a manner that an or be readily oppned and closed by means of a key, which serves to im part to sald bolt a revolving motion, and a lock to obtalned which can be casily applied to a car seat, or any otl:er article, simply bv boring crews passing through suitable holes in its flanges.
46,457.-Rotary Engines. - John R. Ellis, Co. F, 22d Regt. Wis. Vols

 46,458. - Scythe Fastenlng.-Moses R. Flanders, Ilion N. Y.
 46,459.-Magazlne Fire-arms.-Valentlne Fogerty, Bos ton, Mass.:
 ating in coinsinatimi with the grooved
the carridjec, a a, as hrerein described.
second, In combination with the alove
gated holes, $b$ in the cars, d, to permit the verticalor tateral mo IThis invention consists in certain, eciuicd
[This invention consists in certain improvements in the class of meved up to and delivered at or into the brecch of the plece auto atically in regular succe:sion.]
46,460.-Sawlng Machine.-Joseph Frey, Battle Creck, Mich:
, , alro frame, L2, spring in $\AA$ rawing machine of the saw, I . guid


6,461.Machlnery for breaking Quartz, \&c.-Ell P. Gax diner, New York City:
I clain, tirst, The combination and arrangement of the arms, D rating together in the manmer and for the purposes ueseribed. Seco od, I claim tie cumbidiny and arranging and operating the
seree and trough with the recprocatios arms in the manver and or tbe purposes specified.
46,462.-Quartz Crusher.-Perry G. Gardiner, New York City
I chium. first, The conubination and arrangement of the vibrating,
bush blocks, $G$ and $H$, and the pillar blocks, $D$, operating in the manner and for tie purposes described.
second. I claine the combinstlon of the bush blocks, double-joint
and pillar blecks, with the bollow shart and basin, acting in the manaer and for the purposes described.
Third, I claim the manner of frengthening and supporting the
tides of the basin by means of the bands or straps, N, hiving the carings in the ring or bush block, M, whereby support tis giren to
con


 n the manner described
46,463.-Dredging Machine for Harbors and Rivers. -
Andrew J. Dve, San Francisco, Cal.:
 titily as described, and for the uses and purposes as hereinbefor
set forth.
46,464.-Method of Uniting Rubber Rolls to Shafts. Wm. HI. (Grant, Winchendon, Mass.:
claim the method of uniting rubber rolls to I clam the method of uniting rubber rolls to ehafts substantiall 46,465.-Car Coupllng.-Phillp I. Gross, Manheim Cen ter, N. Y.:
 tion with, springs, to operate
the pur ose herein sec forth.
46,4 Eib.-Impregnating Fibrous and Porous Materlals- $_{\text {Stuart (iwynn (assignor to Nlfred 13. Ely), New }}$ York City:
I lalm inppregnating cloth, paper, or other tibrous or porous sub
ntances ivith the cunpwition above described, for the purposes se
46,467.-Beehlve.-John Ifarper, Hillsborough, Iowa:
 scribed and for the purpoe set forth
46,468.-Harness Snap.-Horace Harris, Newark, N. J.
I claim the cxtension of the spring, A, in combination with the
knob, $\mathbf{C}$, and the hook, $\mathbf{B}$, for the purposes herem set forth.
46,469.- Liallroad Tlcket-holder.-J. O. Harris, Ottawa,
 46,470.-Steam Englne.-Wm. Cleveland Hicks, New I clalm the combination and arrangement of steam machinery
perating substantialis in the manner hereln set forth. 46,471.-Lamp.-James IVes, Mount Carmel, Conn.: I claim, Arst, $A$ combined alobe and chimney base or seat, sab
stantially as and for the purpose set forth.

Second, So suspending the lamp and a globe and chimney that the
novememt or the lamp downward will
gause an upward movement
both the chimney and globe, substantiall $y$ as and for the purpose
Third. The rods, $G$ G', passing through the base, $D$, substantially

46,472.-Wlndow-sash Supporter.-Henry F. Jenks,
clainn the arrange. Ment of the spring, $D$, the frame, $C$, and th
and
Holainn the arrange went of the spring, D, the rame, C , and to
dusced Hinger piece, E , coustructed and operating substantially as
a
6,473.-Apparatus for the Manufacture of Illuminating
Gas.-James Jennings, New-York City: Gas.-James Jennings, New-York City:
I claime the bench construsted substantially as describ purpose specifed.
6,474.-Comblned Thrashing Machine and Straw Cut
I clarm - Danlel Kauf man, Boiling Springs, Pa.
I claim the combination of the toothed cylinder, C. and toothed On, a ad provided with teeth bevered or sherpened at one side an
aroad or blunt at the opposite side, to forma combined fudder cutt IThrashing machine, substantially as set furth.
(This invention consists in the employment or use of a rotating cylinder provided witntecth beveled or brought to an edge at one placed below the cssinth a concave provided with similar tecth and box or case, and arranged in such a manner that the device may be coanged from a fodder cutter to a thrashigg machine and vice
6:475. - Friction Mechanism for the Warp Beam of
Logms.-Orln Kenison and Andrew J. McClary
What we claim as our invention is the combination of the station-
ary bracket, $M$, the serew, $N$ and hinok, 0 , or ther mechanical equivalent or equivalents, with the lever, I, or the ther metiction strap
when the later are applied to the loom frame and the warp beap abstanitally as specitte.
6,476. - Apparatus for Stirring and Cooling Lard.Alexander (i. Knapp, New York City:
 46,477. - Apparatus for Inhaling Pure Alr.-Benjamin I
I claim, trost, The construction of the reservoir, A. with a valve, a
and hand straps, b, substantially in the manner and for the purpose des.zribed

The combnation of adjustable elastic straps nith, the air ose describect, whether tie straps lee the means of atachment the body or other means tor this purpose be employed.
Thiru, The combination of the mask, efurishluct with the three
 ner and for the purposc described. a, ane searer of the apparatus to nhale fresh external air when it is safe to do so, in comblnatio
with an air reservoir which has its air under control of a cock, $p$. ubstantially as and for the purposes set forth.
firth, The us. ot one or more elastic strap
 46,478.-Drllling Machine.-Isaac S. Lauback, New claim, first,
Q and W, by means of the adjustable connecting rod, $T$, flted with ne or more universal jointa, the one of gavus brackets to be ccmbline
oth the ofriving head, and hie other with the apindle head of the machine,
pecitied.
6,479.-Wood-bending Machine.-John Phllip Lebzet ter, Lincister, Pali: e e hehl by pivots or hinges on the I clain the winged levers, E E, hechl by pivots or hinges on the
drum, in combination wit. the spring or springs, $H$, or their equiv Italso claim the eccentric lever, $L$, on its yertical ohart. F, fo
sifting it up and down, in combination with the slot ted book, vedge, P, and rod or shant, R, arranged and operating substantial
n the manner and for the purpose spectieel. 6,480.-Comblned Seeder, Cultivator, and Roller. James P. Long, Osage, Iowa:
I claim the combination of the seed cylnnder, E, adjustable frame , cues, $L$, and sisti ibuters, L' cultivatur reeth, N, and rollcr,, ,
he severai' parts being arranged and operating as aud for thie pur the everral par
pose specitled.
46,481.-Sash Fastener.-W. C. McGill, Cincinnati I claim the arrangement of the pair of graritat ligg latohers, E e e'
and, f, and of the operating crauk, if $\mathbb{G}$, the whole being formed and, $\mathrm{F}^{\text {f. and of the operating crauk, if s, the wh }}$, wh
combined and operating substautlaily as set forth
46,482.-Rallroad.-Richard Montgomery, New York
City:
I claim,
tist, The use of corrugated iron brams, In the construcion of acrial railroads substantially as ret forth. for connecting the
second, Tle use or tiat beams or bart of iron for
sds of the rails togetier and also for counc columus of support ther and also for counccting and rastening the posce set forth.
Third, The ase corrugated iron rails in combination with corru
gaterd iron cross thes and corrugated iron coluuns of support in the gated iron cross ties and corrug
construction of aerial raliroads.
46, 483.-Coal Stove.-James Morrison, Jr., Troy, N. Y I Claim, irst, The emplo $E$, the downward recess $E$, combination with the dumping and vibrating grate, , i, in them an
ner and fur the purposea subsm ntial as hereln set forth. ser and fir the purpe
sccund, I cain the combinat 1 on wich a stove a grate eo construct
ed and arranged that the clinkers or like draught obstructing mat
 herein describcu and set torth.
Third, I claim the
Third, ( ${ }^{\prime}$ ', containing the air chamber, $G$, and communicating with the tire at the sides of the tire chamber by means of numerou the tre chamber above and below the said iron ring in the manner substantially as herein set forth.
4,484.-Jack for Pegging Boots, etc.-A. W. Moore with the holder, B. and the socket or more cams. F. in combination

46,48:3-Ejector for Oil Wells.-Gcorge M. Mowbray Titusville, Pa.:
First, I claims in ejectors for elevating liquild and other substan
ces rom wells, the combination and arrangement of the followin
 bination and arrangement of the plurality of pipes and pilssages
whereby to dirde and cistroutc and conduct the alr upwards.
that
dit stances in its ascerr, substantiall as ascrised.
second, I also clam the combination and arrangement of the above
mention ed three parts, with an inclosing plpe, into which they ar so be placed, plpe through which alr is to be forced down, the Third I claima a bulb or Inverted cup or nosele, B, of any suitab
form, screwed or otberwise atteched to or iormed upon the bla
pipe and provided on its upper aurf ace with a plurality of aperture



46,486.-Harvester.-W. Needham and J. Nelson, Rock ford, Ill.:
Frame subatantally as and for the purpose set forth. smbination with the tubular frame for the purposee specified.
Third
 Fourth. The wedge rasher, k, with se, rated or notched faces in
combination with the notched face 1 , of the standar, and the orth. The wedge washer. r , In comblnation with the spring seat
FIIth, the and standard, $\mathbf{R}^{\prime}$, in the manner and for the purpose set
R and Sixth, The clamp levers, HP H', and clampa, h' b", in comblna
Sin with the stirup, h, for the purpose specined.
 Er ine purpose sit forth.
Eigh ith, We clatm in combination with the guard bar, $E_{\text {, por }}$ provided
with the wood center piece, $F$, attaching the guards as and for the purpose set forth.
Ninth, We clatine tombination of the adkestable dividing ron
er, $J$, the sockect, $\mathrm{F}^{\prime \prime}$, and sleeve, I , when constructed and operat ar r, , onjointly as and for the purpose set forth.
46,487.-Shirt Bosom.-John Nell, Clinton, Mass.: I claim as a new article of manulacture the woolen shirt bosom
herin before feacribed. Woven in single pattcra, cut in the center
and jointed at the edges all as specifed. (The object of this Invention lo to glve an ornemental character and an elegant appearance to bosoms of woolen shits, and it con la s in making a woven ormamented shirt bosom of woolen mate ial or its equivalent, so that the woven shirt thall have an elegan and tasteful appearance in that parc ex,osed to view whilst the or amental part shall have ako substantially the same qualities the rest of the shirt, or of its body, whether that be woven, knitted or folied.]
6,488.-Harvester.-Frederlck Nlshwltz, Brooklyn,
I claim, Arat. The combination of the atationary toothed plate. D
 axle and the lever wheel. I, also placed loosely on the axle and con
netted with the collar, If, all arr anged to operate substantially 86


 Fourth, The shoe, \&, arranged and applicd to the main frame, $A$
clatively with the pitman. N , and fnger bar, O, to uperate sibstan clatively with the pitman, N, and fnger bar, $O$, to uperate substan
tially as and for the purpose specified.
6,489.--Harness Saddle Tree.-Ollver B. North, New
Haven, Conn
I claim, frrt, A. metallic saddle tree for harness, composed of the
ockeys, cantel and seat, cast In separate pieces, and united to
eether gubstantially in the mantier and for the parpose described I aiso clam casting a stud upor the underside or the seat for the
purpose of unitiog sad seat co the cantel without passing rivets or ning as hereln descrtbed.
I also claim une with and mar the plating or Japad I also claim uniting the check hook to the tree by peant-g the
shank of the hook under the bow of the jockeys, and above the Trame, and uniturg it by the stud or pin, f, and the screw and not
g b, or their cquivalent devices substantially as hercin deacribed
ond

4,490.-Pro Jectlle.-Thomas G. Orwig, New York City
 stem, f, and winga, b b, all arranged and operating in the manne Second, The combination of the perforated cap, B, with the ming
detclescope stem, E, soft metal ring. C, projectue, $\Lambda$, and cartridge pose described. Carving Table-Samuel Patrick Galesburg, Ill.
 vitb a boiler substantialily as described.
second, Distributing water of difierent temperatures through a se
les of pans by producing a circoulation, substantlaily as bergla de scribed. 6,492.-Amalg
orado Ter.
I claim, tirst, the pan, B, construc ed in the form and style shown and described.
scecond, A Ecries of pans arranged to operate in the manner and
for the purpose set forth. Third, The spiler, m , provided with the bearing, n , and anm, b
uhstanthaly as ghown and described. Four th, The esuspend ed platform. A, arranked to vibrate vertically Filth, I claim so arranging an amalgamator pan as to clve to it
the three-fold motion substautially as and for the purpose set forth. 6,493.-Stock Feeder.-Thomas W. Pleroe, Richfield Minn.:

## I claim the shaft, F, mounted within the chest, An in themanger described and pronded with cups hhich be therotation of the sbant are filled and ois harged, substantially as and for the purpose set

 the not h or rece se, , , ior is souspended.
when the feding operation
46,49 .-Eye Water.-Mary Pike, Cornish, N. H. 46,491.-Eye Water.-Mary Pike, Cornish, N. H.:
I claam an eye water or lotion, composed or the sulphate of sine
and chloride of sodium mixed topether and dissolved in wateit bout in the proportion herein set furth.
Prhis invention consists in a mixture of sulphate of elnce (whel
46,495.-Roofing Composition.-Wm. L. Potter, Clifton I Park, N. Y. ides of buildings, boat decks, etc, se forth and de. ribed. 46,496. - Unlversal Timeplece.-W. B. Purdy, Hunting

 as and for the purpose set forth.
(This invention consista in the application of two or more sets of ponit worling on the same center in comblnation with a correa eveng number of concentric dals in soch a manner that by the vore plach of hands working ca several diais the thme of and each set of hands can be readily seb to Indicate the time of ans place on the globe independent of the remaining set or sets.]
46,497.-Skates.-Washburn Race, Lockport, N. Y.: f, with the bed, A, and runner, $B$, substantially as and for the par
poses herein described.

46,498.- Bag Holder.-Robert Ramsey, New Wilming ton, Penn.:

 for the object herenn before stated.
46,499.- Stove Drum. - Thomas Roberts, Shelby, Ohio. chamber, D, and the tever, $F$, in combination mith the tubes or
 46,500.-Heat Radiator.-Herman Rugee, Milwaukec, I clais the
 6,501.-Machine for Holding Uubs

 46,502. - Harvester.-Jacob Leibel, Manlius, III::

 di in relation to the maninframe and endless apron substantially a


6,503.- Rotary Photographic plate Holder.-Charles H. Shute, Edgartown, Mass.:

 on inve
divid
box
(The object of this invention is to facilitate the taking of several different pictures upon one prepared or neutralized plate. By a very ingenious arrangement ot parts the plate is made to rotate so particularly applicable to ferrotypes. 1
4G,50.1.-Rivets.-John W. Smith, Boston, Mass.: I claim a rivet constructed with a rec
46,505.-Tobacco Pipe Stem. -Thomas Smith and Henr J. Brown, Detroit, Mich.:

I claim the combination orthe stem, B B, chamber, ce, and tubes,
6,506.-Construction of Ordnance.-Charles W. Stafford, Old Saybrook, Conn.:
 and corrcspon ding grooves, in the mainer as herein represented.

 46,507.-Flexible Tubing for Illuminating Gas.-Wm. B. S. Taylor, New York City:
 6,508.-Machine for Cutting Barrel Heads.-C. R. Tompkins, Rochester, N. Y.:
I claim, Arst, The combination and relative arrangement of the
rock shaft, $P$, and lever, K, with the upper and lower boxes, f and
f, or the adustable feed roller, d, substantially in the mancr hown and for the purpose of producine a parallel adjustuent of the
Bald roller. In combination with the adiustable parrl arm, $\begin{aligned} & \text { Second, and rach- } \\ & \text { et, a, the Crank. } J \text {. and sloted wo }\end{aligned}$
nnecting rod, $R$, substaulially 1 n the et, A, the'crank. J. and slotted connnecting rod, H, substayitially yn the
mancer slownand for the purpose of producing the intermittent
feed as set forth. 46,509.-Coils for Steam Heating Apparat s.-John Trageser, New York City:
I clalim, frist, The arrangement of the pipes, f f and $k$, whereby the
axial plpe, x , is allowed to expand or coutract without injury to the

 as specifed to the coils of steam heating and boiling apparatus, so
that said coils will be $k$ ept team tightit at the joints aud motion al-
lowed for turning said coiis up as sct forth.
46,510.-Curry Br sh or Card.-John Voak, Penn Yan,
 46,511.-Microscope. - William Wales, Fort Lee, N. J.:
 This invention consists in the application of two or more back lass, in such a manner that the anglo of aperture left for natura reflected light is equal to that for oblique or angular light in contradistinction to the use of two or more front lenses which have to be changed and sbifted to be adapted to central and oblique light.
46,512.-Retainer for Window Sash.-John H. Weeks, Philadelphia, Pa.:

46,513.-Device for from Shuttles and Spools of Sewing Machines.from Shuttles and Spoois of Sewing Machines.-
William Weitling, New York City:
claim the application to the spool or bobbin in a shutte or other I claim the application to the spool or bobbin in a shutle or other
part of a sewitg macline of a a tircad ceader having a motion in thin
arcof a circl and constructed ald operated substantially in the
manner andfor the purpose described.
46,514. - Apparatus for Sofening the Gum of Adhesive Labels.-Benjamin Wilder, North Scituate, Mass.: 1 claim as my in
purpose described.
46,515.-Apparatus for Distributing Fertilizers.-J. M. I claim, first, The swing, N. Y.:
 Second: The application or the bars, C, in distrivutors for lime and
other fne ererlizers, to be used by hand, as shown and forthe purposes set forth.
Thirdig Arranging the register plate, $D$, within the case as shown,
and for the purposes described. 46,516.-Operating Ordnance on Gun Boats, \&c.-Wil-
liam Lou s Winans, Baltimore, Md.: I clam mouns wing the carriage of a gun on a platform which is
 connection or the ead platiorm with other plungers itted to cylin
ders to regulate the descent ot the plat orm and gun by the foow or
water or other fuid, substantially as described and for the purpose I aliso claim? making the plunge-s ior repulating the descent of th
In
 I als claim in combination with the mounting of a gun on a plat
form to be raised and depr escel, the employment of a chassis con nd irovided with wedpes or the equivalent thercor to vary the lination of the chassis, substantialiy as and for the purpose speci Ied aiso claim connecting the upper part of the carriage in which the
sun is mount ed with the hower part thercof by means or a a swivel n combination with the chasis connceled with the movalle platiorm
 by reason of its coplliections can not ite turned. etting down the gun. as described, the cmployment of sidising hatchway's so connerted with the platform asto be operated uv the motion
of the pla torm, substantiully as and for the purnose specithed.

## 6,517.-Well Borers.- (George L. Witsil and Edwar

Burke, Philadelphia, Pa::
We ciaim, frst, The employment of two or more augers in com
bination with a central udward discharging drill, substantially as de
scribed. Second, connec ting the augers, A A a, to the drill collar, $N$, in
ch manner that the augers can be rutated nudependent ly' of thi rill, or can be made to rotate the drill, at pleasure, substantially a
dearibed.
Third
 ated substantianly as herecin described.
tourth, reeding the augers down to
nd left screws, pp, nel left screws, $p$ p' $p$ p, applied and operating substantially as $d e$
ar 6,518.-Preparing Barrels to Hold Oil, Petroleum, \&c. -Henry wurtz, New York City
I claim, ifst, The introduction into the pores of wood and other
porous materialk, when used as materials seove set forlh.
asubequent super ficial app lication to such substance

 wood shrinks by absorption of the liquid, as above set forth.
fouth. The preventon of the ocrroaion of iron hoops, nails and
othcr iron fastenings ot ba rrels and other vesely for haoluing oils When impregnated with solutions a deliquescent salts by adting
such solutions sucrate of line, as above set forth. Fittli, The application to the internal suriace and betwcen th
iointor bar refs and other vessels for huldingoils of a pastecompose
of deliquescent aliline solution combined wath come substance of gelatiquescent aliline solution combined whith come substance of mucilaginous, farinaceous, gummy or starchy
46,519.-Ticket Holder.-Varnum G. Arnold, Boston Mass., assign
bury, Mass.:
I clain a holder or case for passage tickets, constructed with a de
ivery duct, in combination with an aperaturc, A. in the site of the
same, for delivering the tickets one thy same, for dellering the tickets one by one by the action or the
thumb, substantially as hercin described, for the purpose specifed 6,520.-Roasting and Desulphurizing Ore.-Hezekia grarl. ord, New York City, assig
gartedated Feb. 16,1865
 chamber with jets of superheated steam. or pulverited a ar, or both,
ointly forced through thecharge, substantially as and for the pur Second. I claim i etaining the fine particles of ore that pass off rrom
the ore chamber with the steam arr or gases, by passing the sam
 chamber through a pipe into a vessel or reservorir of water by th
pressure or the air gas or steam, substantially as set forth. 46,521. -Milling Machine Joseph R. Brown (assigno to Brown \& Sharpe), lrovidence, R. I.:
First, I claim the combination o the elevatimg knce, H, the slid
ing गlate, E, the swivel plate. L, and siluing carriage, U, with the re
 tially as described.
second, The arrangement of the center spindle, b, or its equiva
lent, with the devices which actuate and govern'the movements of the same, in combination with the silding carriage, G, and the de
vices by which it is opersted, so that the two mechianisms may op ices by which it is operste conjoinus, substantially in the manner described.
Third, ilaim the arrangement with n the center head, $F$, of the
swinging block, R, or its equivalent, an a the revoving spinde,
with swinging block,
with the or thices which
for the purpose specitied.
46,522.-Machine for Cutting Pasteboard for Boxes.Elizur E. Clarke (assignor to Franklin N. Clarke) New Haven, Conn.:
I claim the method of holding and adjusting the citter without the
employment of the cutter stock, by combining witt the cuter bar
having ter

 substantally as set forth
I also claim the attachment to the cutter bar of the parallel or
horizontal beam or cap, set at a distance apart, to admit of the horizontal beam or cap, set at a distance apart, to admit of the
grove of the screwnut, in combination with droves in both the
said cutter bar and beam to admit of the collar of the screw nut,
 rule or scale in its proper relation with respect to the cutter, by con bining with the cutter bar and uprights, brackets or the equivalents
thercof, in the manner substantially as hereinbefore shown aud de-
scribed.
46,523 .-Grain Drill.-JJ. W. H. Doubler (assignor dated Feb. 6 , 1865 . First, I claim the hollow drills, F $\boldsymbol{F}$, constructed, arranged and op-
cratingas and for the purposes herein specified and shown.
 thally as and for the purposes shown and described. parallel bar, L,
Third, In combination with the above I claim the
and the chains, p, arranged and operating as a nd for the purposes
set forth.
Fourth, $I$ claim the curved arms, J, provided with the slot, J, and set screw, k, arranged as and for the purpeses specified
Fifh, $i$ claim providing the spiral dist ribution, $D$, with the several
 46,524.-Carriage Wheels.-Joseph Goodman, Blackrriar's Road, Eng., assignor to Charles P. Button, New York City
Iclaim the disk, i, wit

 securely clamped.
[This invention consists in the employment or use of a disk, with a conical central bore, in combination with a grooved plate and ita central opening, and with the spokes and felly or tire of a wheel, in acha manner that by Ecrewing the disk and plate together the curcly clamped, and the felly or tire is equally strained throughout the wholo circumference and brought in the position of a true circle.,

46,525.-Mosalc Toy Block.-Thos. Geo. Harold (as
signor to himeelf and Nelson Staford), Brooklyn I claim a series of fquare or cubical blocks, whose surfaces are col 6,52.-Tuyer.-John R. Harrington (assignor to Agne V. Harrington), Brooklyn, N. Y.

6,527.-Gas-hentcr or Blow-pipe for Heating SolderIg Irons.-Edwin A. Leland (assignor to Radclitre B. Lockwood, New York Clty
 he pur
poses.
S28.-Coat and Hat Rack.-Samuel Macferran and Stephen Ustick (assignors to Samuel Macferran) $\mathrm{W}_{c}$ claim the combination of the eegmental or elliptical bar, A, the hook, $B$, the bracket, C , and hook, ${ }^{\text {B }}$, subst
deseribed and for the purpose above set forth.
6,529.-Spring Horse.-Henry F. Metzler (assignor to himself and Thos. G. Cowperthwaite, New York City
I clamm the manner in which the standards are arranged, com-
bined operated and adjusted relatively to their several parts and to
the horsc baby-tender or chair, whereby the several motions as de the horse baby-tender or chair, whereby the several motions as de
scribed are obtained. 46,530.-Roving Frame.-Thomas Mayor, Pawtucket R. I., assignor to George Chatterton, P'rovidence

46,531.-Lock.-Lyman F. Munger, Rochester, N. Y.
asignor to himself and Walter K. Marvin. New assignor to himself and Walter K. Marvin. New
York City: I claim, first, The combination in a lock cass of frictlonal ke
umblers, bolt and fence tumbler, together with the follower or leve Imblers, bolt and rence tumbler, together with the follower or lever
oo actuate the same under the arranement herin ut.cribed, Ao
hat both the sald key tumblers and boft when hactuated shall mov planes parallel to each other, substantially; as set forth. ouble-gated bolt. I claim the double-acting findoc tumbler operatin as described, so as to lock the bolt whe her shot out or withdrawn,
substantially as set forth.
Third, The method hereln described of oper ating the key tumblers fron pin passing through and projecting trom the said key tumbler 46,532.-Brecch-load ng Fire-arms.-Joseph Rider, New-
ark, Ohio, assignor to himself and E. Remington \& ark, Ohio, assignor to himself and E. Remington \& I claim. ${ }^{\text {arst }}$, N. Y .
I claim, first, Combining with a hammer that is hung upon the
side of the arn, and moves at right ankles to the bore of the gun,
nose or projection, whicich, shooting into a mort ise throught the bar el, forms a breech prece, substantially as and for the purpose do I also claim combining with such a hammer, or the projection
thereon, a pivoted trigger or lever, ior striking or impinging upon the cartridge, and thus explode it simultaneo
of the arm, substantially as hercin described.
46,533.- Steam Boiler.-E. B. Sintzenich (assignor to himself and Joseph Hall), Kochester, N. Y.: the horizontal fire or combustion flues of marine bollers, as shown Sccond, The combination and relative arrangement of the man
hole, $D$, with the horizontal return firc or combustion fues and tnd water fues, the latter having their front ends connected with the
water space surroundig the combustion chamber, It substantially
as shown aod described, and tor the purpose herein set forth.
46,534.-Shade-holder for Lamps.-Cornelius St. John (assignor to Roscoe G. Turner, assignor to Charles
 45,535.-Means for Applying Heat and Cold In the Somerset strect, Putnam square. London, Eny, : I claim the manner of, applying heat and cold, solids or jhulds, by
neans of preof fexible materlal, when said bagk are dividec into two or mor
celle or compartments, whether suath cells or compartoenta are
formed by the pressure of clamps upon tle exterior or by the use of one or more interior partitions. making hot applications, when such
I also claim spine bags or mak
bags are composed of two or more tubular coinpartnents. 46,536.-Furnace for Burning Gas.-Carl Schinz, Ofien burg Grand Duchy of Baden
I claim, irst, The employment or use of the gas spliter, $G$, with
wo or more tuveres., ,
nin combination with the generator, $C$, ai inlet, $i$ and conboustion 'fluc, o, or its equivalent, constructed, and
operating in the manner and for the purpose substantially as herein second, The employment or ue of two or more air tuyeres, 1 , in
sombination with the channel, F , rising from the Renerator, C , and with the combastion fue o, or its equivalent, constructed and oper
ating substantially as and for the purpose set forth. Third, The emploloyment or use oit tho or more com buition fues, o
proporioned accoring to the rules above specifed, and arr anged in combination with the caschanncl, $r$, and air channel or changele,
substantially in the manner and for be p
 loopholes, $q$, in the rear of the
and for the puipose specitid.
The object of gas-burning furnaces and stoves is to obtan the largest possible useful effect of the fuel. This purpose is effected
because this system olfers the means, 1 , to produce the dry product of distillation obtained from the fucl more regularly than the direc mode of fring; 2, to effect a complete combustion of all the com bustible materials; 3, tocommingle the oxygen of the atmospheric air and the combustible materials in the proper proportion, and conand the maximum errec of initiai temperature resultug from the products of combustion is obtained.

## RE-ISSUES.

1,875.- Automatic Grain Binder.-Robert D. Brown Covington, Ind. Patented April 7, 18G3: tion, celaim, , and roneted at proper intervals bva, acogged sogment
c5, to elevate the arms, C ', and carry the baid around the coni pressed travel.
Sceond, The combination of the cam whecl, c2, with the arms, C
 ating substantially as herein described, I clain the employ ment or
use or two pairs of griping or twisting jaws, D, attached y se parate pivots, d d to a common journal, D', and operating substantiFourth, Driving, the iaws, D, by the sha ft, E, working within the
hollow jou rnat, Din the manner explain eu, to cumpress the said Jaws with force correspondigg with that required to rotate them.
Frith, The combination of the spring sop $k$, chan the and whels,
and K , when the said parts are constructed, arranged and oper: ated in the manner and for the purposes herelin specillod.
Sixth, The tucking hand, $f$, wvanced and rotaced subetantaily as




Ienterent, The arm, LLior to deacribed equivalent, for castige thy combination with the pivol ed table, N or N.t. or other suitable re
cetacie for caryng the sheaves and depoittigg tulam in hape. t te ta,ble, N or N2, in manner substantially as and ior tho pur
oses set forth.
 shares to be deposited in each heap, with au automatic bindin Fourteenth, The comblnation of the shear-holder, B B', or equiva-
ent device, जith rotating griping jawn for twistlig the baid, and
ehe tucking hand and tolder, AB

876.-Raking Attachment to Harvester.-Robert $D$ Brown, Covington, Ind. Patented April 7, 1863:


 1,877.-Steam Englne.-Fred'k P. Dimpfel, New York City. Patented July 1. 1851

 placed transverse: to the craple shaft shall be on opposite sides on
the axialine of said shaft at opposite extremitics oi the stroke of
the piston. Second, The forming of the eduction and induction chambers in
culinder heads of stam engines, and furnishing them respectively
تith supply and exhaust valves, substantially in the manner and for
 or asteam engine cylinder in comen or other valves, in such manne hat a laze portion of the steam shall ba saved wbich is lost or
wasted in he nozzes or steam ways of engines as ordiuarily con structed, substantially as described.
Fourth, The removabie chambered
with the extenslon
the latter, substantially as and for the steam pipes, $r$ r, connecte
 uclion and eduction valves with th
cylinders, Ior the purpose set forth.
1,878.-Condenser.-Wm. A. Lighthall, New York City Patented Dec. 17,1861
 ,879_-Portable Water Condenser.-Wm. A. Lighthall New York City. Patented July 29,186 ,
I clalm, first, The comblation of the tank, N, fiter, B, condenser

 1,880. - Naval Ram for the destruction of the Enemy's

Ships.-Charles Perley. New York City. Patented First, In comp. 24, $18:$
 valvegate or gates to cluze the orille when the same is remo red. a



1,881.-Machlne for Cutting Flles.-Milton D. Whipple
(assignor by mesne assignments to the Whippl
File Manufacturing Company), Cambridge, Mass. Patented 0 ct . 7, 1856
I claim feeding the blank forward and rotating it upon its axis a
the eutling proceed, mhen it is operated upon thy the vibrating cut
ters in the manner substantially as herein set forth
 engtlis, substan tially as set forth.
1 also claine, in combination tith a round blank that is rotated for
he rurposes described, operating upon the blank immediately be-
 by means of the miethod herein described of operating the cutters
and the spring, A2and z , wherevy the
force of the blow ls diminished as the size of the blank decresses, as If arso. olaim forning the cutters of circular disks, or of portions
thereof, in the manner and for the purpose substantially as herein
set forth.

## DESIGNS

2,032.-Agrlcultural Furnace.-Merritt Peckham, Utica
2,033.- Spoon and Fork Handle.-Jullus L. D. Sullivan
Somerville, Mass.

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han explred,


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 fully deserved, as I have always observed, in all your intercourse aith
the ortice, a m marked degree of promptness, skill, and fidelity to the
interests ol your employers.
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nollowiug very gratifylog letier.
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 anned (and I doubt not justly destrved) the reputation of energy,
marked ability, and uncompromising tulelity bin performing your pry
very respectfulls, your obedient servant, $\qquad$
Hon. Wm. D. Bishop. late Member of Congress from Connecticut,
succeeded Mr.





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