applications before the close of the present month, the managers may reduce the space allotted to us from 2,788 square meters to 88 , as that will be amply sufficient.
Since writing the above we have received a letter from the Secretary of State, in which he intorms us that Mr. Bigelow, our Minister at Paris, has been in structed to ask for an extension of time of filing the applications of exhibitors residing in the United States. If this application is successful some compeent pe: son will, doubtless, be selected to take charge of the busi ress in this city


I JSUED FROMTHE UNITED STATES PATENT-OFFICE FOR THE WEEK ENDING OCTOBER $3,1865$.
Roported Officially for the Scientefic American
$\cdots$ Pamphlets containing the Patent Laws and ful particulars of the mode of applying for Letters Patent specifying size of model required and much other in tormation usetul to inventors, may be had gratis by ait dressing MUNN \& CO., Publishers of the Soientifio American, New York.

50,214.-Bit Stock.-Charles H. Amidon, Greenfleld, I clairir the combination or the movable screw socket, $A$, Jaws, $\mathbf{B}$
$\mathbf{B}$, and sleeve, C , with a bit stock, when constructed and operating B, and sleeve, C, with a bid
substantially as described.
50.215.-Loom.-R. W. Andrews, Staffordville, Conn.: I claim the arrangement of one or more elastic friction piaie s, or with relation to the picker statts or picker boocks of said looms as to
wroduce the withindescribed desirabie results, and in substantiall produce the within-described
the manner herein set forth.
the manner herein set forth. George Asmus, Portage. Micl.: hip weight, adjustable on the bar, c, in combination with the in

Also, the curve, a , in the bar, C . in combination with the weight
hinged damper, B , and draught channel, A, constructed and D, hinged damper, B, and draught channel, A, const
TThis inventionconsists in the arrangement of a hinged dampe and slip weight, in combination with the inchad face of the raught pole of a heat generator, in such a manner that the draught of the air rushing into the fire-place of the heat generator has a ten dency to close said hinged chamber, whereas the gravity of the damper, combined with the slip weight, has a tendency to keep she same open, and that by adjusting the position of said slip we:glit the quantit

0,217.-Cultivator.-Andrew Bouton, Napa. (al.: I claim the right and left cultivators, A $\Lambda$, supported by the caster
wheei, $F$, and adiustable wheels, B,
Bars, $G$, all arranged substantially as and for the purpose trans hereinse
[This invention relates to a new and improvell cultivator, designed more especially for cultivating the earth in orchards in Calitornia where the trees branch out quite close to the ground, and preclude the plow being used near the trunks of the trecs.
50,218.-Valve Gear for Steam Engines.-Adam S.
Cameron, New York City:
he main cylinder, A, in combination with the supplementar y crlin the main cylinder, A, in combination with the supplementary y cvin
ders, EE, pistons, Fi, Fand fliae valve, conntructed and operat
ing substantially as and for the purpose desciobed.
50,219.-Globe Valve.-William Chesley, Cincinnati, Ohio
1 claim a globe valve, the part of whose st.em below the stutlin

50.220.-Mode of Revivifying Loam Luting.-..John Chilcotr, Rrooklyn, N. Y. Antedated Sept. 22, 1865 ; t claim the revivification of spe nt loam juting by the actlition of 50,221.-Setting Steam Boilers.-John Chilcott, Brooklyn, N. Y. Antedated Sept. 18, 1865 :
 the gases Ur combustion between the tabes is provided for.
Spond Providiag in the top silues anit back of the outside seting
of a boiler a continuous system of thues, I I and $J$, whereby the gaseous products ficombustion are caused to circulate many time 50,222.-Process for Tanning.-Orson A. Coe, Charles ton, Ohio:
First, 1 clain the first solution herein described, and composed of the ingredients described under No. 1 , and cmployed for tanning
skins witin the wool, hain or tur on.
second, The combination of the first and second solutions, made and used, substantialy as and for the purpose spectionl. Third, The combination of the first, second and third solutions
[This invention relates to a process which is equally appicable to anning light skins with wool, hair or fur on, or to tanning hides or skins for leather.]
50,223.-Saw Mill-A. P. Conant. Smithland, Ky.: ciamthevertical adjustable revolving head,, , provided wit nd with the head block A, ot a, gewugg machine, cons
perating substantially as and for the purpose set forth.
This invention consists in the arrangement of two dogs, whic
are adjustable according to the width or thickness of the log to be clamped between them, and which are guided by rods secured in the end of a swinging head, which can be raised or lowered on a standard xising from the head block, and which also allows of being turned in a horizontal plane in such a manner that by raising and suit the theheadheposition ofthedogscan reauly of diffe ent can ogs or pleces to be sawed, and oy turning satd headking posi tion, and the operation of adjusting the log in the proper position for sawing is greatly facilitated
50,224.-Revolving Fire-arm.-Silas Crispin, New York City:
I claim the application to a revolver, having its barrel swinging,
from the tramp by a hinge joint, of a transversely divided cylinder, when one section thereo o is connected to the swinging barrel, and
the ot lie section to the stock or frame, each being retained by its 50,225.-Sewine Machine for Making Ruffled Fabrics.C. O. Crosby, New Haven, Conn.: second thread, substantially as and for the purpose specified.
Second The combination of the check and carrier for the se ond
thread with a sewing mechanism, substantially as and for the purthread with a sewing mechanism, substantially as and for the pur
pose set forth.
Thid Third, The combination of the carrier for the second thread, feed.
ing
scrited

50,226.-Construction of Sheet-metal Boxes.-Daniel Milwaukee, Wis.:
I claim the construccing of sheet-metal boxes or cans with a seam,
composed of lips or proiections and notches at the end of the plate
formine the body of the formine the body of the box or can. and also with slots, in order to
form a locked joint, substantially as shown and described. [This invention relates to a new and improved mode of construct ng sheet-metal bo
forming the seam.
50,227.-Picker for Looms. -Benjamin F. Day and Chas. Nelson, Biddeford, Me.:
We claim the box construc ed.as described and represented, hav-
ins a means of attacnment to the picker staff. an opening in its face to permit the nose of the shuttle to strike the containe disks, and
an opening, $c$ at the top for the reaay insertion and retraction of he cushion disks, as mav be required
IIt is common to protect the picker against the blow which it re rubler or hie the rubleer or hide, the different lavers being secured to each other and to the picker staff by bolts or bands. One of the defects of these cushions is their liability to split and be torn apart by the violen blows it gives to and receives from the shatte, making it necessary loss both of time and money. This improvement consists in using a metallic box, of any suitable form, to receive the leather or othe substance compusing the cushion of the preker
50,228.-Apparatus for Tanning.-Charles R. Dean, Ran dolph, N. Y..
I claim the construction of a hollow evlinder, or its equivalent
with slots, or their equivalent, and compartments, and the applic with slots, or their equivalent, and compartments, and the applica
tions thereof, in the process of tanning, substaritially as above de
scibed. 50,229.-Cultivator.-Isaac Dunham, Lanesfield, Kansas 1. clamm the arrangement and combination of the several part gear, whereby the machine is adapted to the different kinds of work
as explained

50,230.-Spinning Jack.-Ezra Dews, South Britain I claim the longitudinally sliding rod, $A$, connected to the cam ever, $B$ d in combina tion with the belt shipper, $k$ and catch,,
perated bv the faller or copping wire of a spinning jack, substan-
tially as and for the purpose set forth. 50,231.-Cook Stove.-Albert S. Dunham, Taunton, First, I claim
First, I claim the construction of the air chambers, and placing
them at each side and at the top of the fire box, to draw in the pure them at each side and at the top of the fire box, to draw in the pur
airto be heated and conveyed into the oven or through between th

Second, I claim the arrangement of the air chambers, flues an ampers, whereby the armospheric air can be heated and circulate
withoul. becoming impregnated with the gases from the fuel, withoul becoming impregnated with the gases from
tacilitate baking m cook stoves, as herein described.
50,232.-Many-barreled Fire-arm.-William H. Elliot, First, In a many
First, In a many-barreled arm, in which a separate firing point or
pin is employed for each chamber,
ting said paim so constructing and oper diriving torward at a time as herein shown second, The combination of the cam and firing pins, for the pur
pose of throwing one or the other of said pins before the hammer, a Third, The angular pin, $n$, in combination
faces, $n$, for the purposeherein set forth.
50,233.- Lubricator.-J. H. Ferguson, Springfield Mass.:
Mirst. I claim the lateral passaree, a, and its triangular groove in
 plug is isajusted, subtantially as above described.
econd. I also claim the finger. $G$, arranged with and projecting
lownward below the plag, $D$, constructed and operating sulsstan-
tially as above described.
iOne of the objects of this invention is to apply oil to bearing su LOne of the objects of this invention is to apply oil to bearing sur
faces continuously, and not intermittently at long intervals, accord ng to the usual mode-experiments by Morin having demonstrated that hion ar imp to time, and that less oil is used, because there is less oppor unity for wastefulness. Another oblect is to be able to adjust the ukricator and supply it while the machinery it is attached to is in motion.
50,234.-Washing Machine.-Benj. S. Fletcher, Cornish Flat, N. H.:
I claim the movable sloted block , a a a the screws, B B B, and
the stt screv, c, constructed. combined and arranged substantially
as described, for the purposes specitied. 50,235.-Fire Plug.- Jacob Fricker, Cincinnati, Ohio : I claim as new and of my invention the reversible plog, B, pro-
ided with a waste way, $C$, in the described combination with the
iit hole, D, and stops, $G$, or devices substantially equivalent, for he purposes describe
50,236.-Wooden-soled Boot and Shoe.-James Fulton Zanesville, Ohio:
First, I clain an improvement in the manufacture of boots an
shoes liaving a double. that is to say, an inner ind an an outer woode
sole. by combining the wooden sole with a double flexible shan oincd to the outer and inner parts of the wooden sole at one enit
and at the other to the outer and inner parts of the heel, or as th manutacturer may prefer, having the inner thickness or, the shank
extended so far back as to nake an inner heel or heel-piee, aldmit ting the edge oi the upper of the boot or shoe to be fastened between
the inner and outer soles, avd bet ween the inner and outer shank
and the inner and outer heel or h eel-piece, sabstantially as herein

Second, The combination of the fiexible shank with the doubl [This invention cossists in the combination of a double wooden sole-that is to say, an inner and outer wooden sole-with a double fexible shank joined to the inner and outer parts of the soee at on end, and at the other end to the outer heel and the inner heel o reple, or hangs iner thekness of the shank extended so far back as to make an inner heel or heel-piece, and having the upper of the boot or shoe fastened between the inner and outer sole, tween the iner hin outer or ind and between outer heel and inner heel or heel-p

50,237.-Composition for Removing Incrustation from
boilers.-John G. Gansz and Jacob J. Savo, St Louis, Mo:
We clairic a cliemical compound for removing incrustation on
bol ers, whicl 10 ompound 1 composed of the ingredients mentioned
in the foregoing spectication united in the foregoing specticatiton, united and the indredients mentioned
in together in the pro
port ons specified or their port.ons specified
50,238.-Rendering Casks Oil-proof.-Smith Gardner
New York City. Antedated Sept. New York City. Antedated Sept. 23, 1865:
I claim rendermg casks impervious to spirits of turpentine, petro-
leum, and like substances, by impregnating them with sulphate of ir on and muriate of lime, as a foresaid, anit for the purposes herein
50,239.-Combined Shutter Hinge and Fastening.Wessell S. Gerard, Newburgh, N. Y.:
I claim the catcl or fastening, B, when fitted within a socket, d, shown and described.
This mention consists in combining a tastening with a shutter hinge in such a manner that the shutter when thrown open will be secured in an open state, and the fastening bs capable of being readily adjusted so as to release the shutter and admit of its being closed.
50,240.-Bobbin Holder for Spinning.-Jolın Goulding,
Worcester, Mass.
I claim the device herein described for ho'ding bobbins upon
spindles, the same consiting of two or more centrally bulging
 50,241.-Bobbin Holder for Spinning.-John Goulding,
Worcester, Mass.: I I cainu th: combination with the spIndle, A, of the boboin holder,
, when constructed with a long tuthe or spring, c. which serves as
the only support to the bobbin holder, as set forth. he Per, as set fort
In,242.-Pantalouns.-B. J. Greely, New York City: lapels, as shown the and holdiug them in place by means of (lastic
straps, substantially as slown. traps, substantially as shown
[rhis invention in pantaloons is applicable also to drawers for men, women and children, and it consists in a novel way of uniting and hooks and eyes are dispensed with, the front part of the bodr being made with an inner and outer lapel, the outer one of which folds over the uner one both being drawn out to and tept in thei rolds or the by me, opposite sides, the strap which holds the inside lapel being atrached to the inside of the band, and the other strap to the out,ide.l
50,243.-Railroad Rail-Alexander Hamill, Sr.. and Robert J. B. Hamill, Ealtimore, Md.
I claim the arrangement and combination of the tenons, 13 , and
keys $D$, with the rat's, as hercin described for the $\rho$ urpose of tasten ker the rails, norr permanently and securely to the cross-ties, and
dispensing with the use of spikes. 50,244.-Device for Extracting Stumps.-E. C. Hase-
rick, Lalse Viltage, N. H.: I claim the application to a carriage or mounted truck of a hy
drautic apparafus, constructed and arranged as described, with a water tank and a lifting frame, or its e enivalent, for the purpose of
raising heav, bodies, extracting stum etc,.,
same when trass, red, substantially as set forth, same when (les, red, substantially as set fortly,
It further clamm the screw jacks, D, when arranged and applied $t_{0}$
the axles,
sl the maner substantially as and for the purpose herein 50,245.-Script Printing 'Jype.-H. J. Hewitt, Brooklyn N. Y.:

I clamm reducing or forming the body of seript printing type so as
o make the extending letters with a kern to project over the boilr of the type and between tue extended letter of the liner next above
and below, substantially as and for the purpose described 50,246.-Corn Planter.-A. F. Hines, Washington, D. C.: 1 claim the slide valve, q. rod, i, spring x. in combination with
valve, m, plates. $\begin{aligned} & \text { and } \\ & \text { rames, } \mathrm{HI} \text {, in vilve, } \mathrm{m} \text {. }\end{aligned}$, spout or seel duct, S , groove, y , and Iames, il, in valve, in.
Ialso chim rubber or spring, a, rod, F , in combination with lever,
e, and the inner ving or wheels, C , provided with pins, $\mathrm{d} d \mathrm{~d}$, to op: 1 also claim the arrangement of two or more shelves in hopper at the last motion oi then nactine, will fall ott in to the bottoper of
the hopper, he whole constructed and operated in the manner and
for the purposes herein set forth.
50,247.-Roller-crushing Machine.-Alonzo Hitchcock, New York City. Antedated Sept. 23, 1865: 50,248 .-Brakes for Carts.-Henry Holcroft and C. S. Smith, Media, Pa.

 50,249.-Caster for Furniture.-P. B. Holmes, New York I claim the combination with the roller horn of a caster of the
plate, , with its hollow shaf or bushing, f as a
center or bearing, the purpose speciticd.
[This invertion bas for its object the formation and construction of acaster, to be used for furniture more especially, in such a manne hatthe strength of the legs will not, in the least degree, be weak ened thereby, while, at the same time, they can be securely fastene with the horn of the caster, free to swing, the advantages of which are obvious.
0,250-Apparatus for Carbureting Air.-J. H. Irwin Chicago, Ill.:
I claim the application of heated air to a carbureting apparatus,
When arranged within an inclosing case, substantially as and for 50,251 .-Apparatus for Carbureting Air:-J. H. Irwin chicago, ill.:
ion with a carbureting arparatus, a anged with respect to the burners whict it supplies with gas, sub stantially as herein deseribed, anv mechanical device so arranged as
to force a current of air into saill carbureter, substantially in the manner set fortio.
second
orcing a forcing a current ot air into the same, whea so crinstructed and
comblited that the carbureting apparatu will generate gan and silp
ply the burners when ply the burners when the mechanical device is not in operation.
50,252 .-Last.-George Marshall, Brooklyn, N. Y.: I claim a cast-iron last made with a sole. A,
strengtheng rib, C, substantially as here in described

50,253 - Button-hole Sewing Machine.-D. W. G. Humphrey, Chelsea, Mass.:
First, The mode ot clamping and holding back the needle thread
that the neede may draw the 100 tan tight which was formed at the previous oper, tion, in combinaton with the doubleaneing came
which makesthe duration of the griving operation different when
 purpoce specitiea ilaim holing the clamp down to the face of the
 scribed an hich the pinain of the clakinp the curved ports, of the slo in the table

 trons are communicated o the clamp, so that it can sliue up and


 50,254.- Portable Scales -H. Maranville, Akron, Ohio




0,255.-Soda-water Apparatus.-John Matthews, Jr Ne w York City:





 is faciltated.
50,256.-Milk Pan.-F. J. May, New York City:

[This invention consists in the employment or use of two pans,解 crated bottom, to serve as a strainer. The inner pan contains the iquid, and when the latter is required for use the inner pan is ifted or raised from the outer one, the liquid passing through the straine arpar one; hua, by simply raising the inner pan out from the center one郎 designed for mik pans, to obviate the necessity of skimming che cream from the surface or mik, which is now perrormed by means dairies, and attended with more or less waste. 1
50,257.-Cultivator.-Robert McCorkle, Philadelphla, I clanm, First, The metal pieces, F, provided with the horizontal lugs or pmjections, $b$, ior thepur 0 ie of attaching the drag bars $D$, Second, The plates G and H , constructed and arranged to operate
n combination witd the drag bar., D , as and for the purposes set Third, The plate, I , in combination with the ol ow levers, $\mathbf{L}$, and
plates, G, for the purpose of moving the plows, I II, as herein deFourth, The rubbor disk or i s equlvalent, in combination with the
tandard, $n$, and head, $R$, of the drag bar, when constructea and aranged to operate as and for the purpose set forth
50,258. -Grate tor Stoves.-Wm. McIlvain, Philadelphia, I claim, First, sill:iting the prates, $D$, at different altitudes in the a, substantially a a described and fur the purpose specifled.
second $\mathbf{C o u s t r}$. ucting the front bars of the grates, $D$, with the Second, Coustructing the front bars of thiegrates, D , with the lips,
d, and the grooves, e , substantially in the manner and for the pur

0,259.-Roller and Harrow Combined.-William R Mears, Grafton, Ill.:
$\mathrm{m}_{\mathrm{m}}$ claim, First. The combination and arrangement of the levers, $\mathrm{D}^{\mathrm{m}} \mathrm{m}$, and frame, A, of my improved machino, all substantiallv in the Secdmui, I alsporisim thine arrangement and comoination with pach
cther and with the frame, A, of the sectional rollers, C C, and liar
rows, D D, to constitute a combined raller and hartow, substantially rows, D D, to constt
as herem described
\% 0,260 .-Combined Latch and Bolt.-Movius J. Meyer, Washington, D. C
I claim, First, The bolt, $\mathbf{B}$, with the additional bevel, $P$, on the Second, Ia comb.nation with the above, anl with the tulbe, $A$, and substantially as and for the purposes herein set forth. 50,261.-Umbrella Holder.-J. A. Minor, Middletown, Conn.: frame or plate, h, constructed and arranged together upon a com
mon rod or staff, substantally as herein described and for the pur mose
posecificd.
I alsoc clian. in combination with the above, the use of a supple
mentary slepve, $s$, for the purpose set forth. mentary slepve, s, for the purpose set forth.
[This invention relates to certain now and useful improvement in holders for umbrellas, especially adapted tor carriages and $v$ hicles of all kads, either for protection from storms or from the rays of the sun, and consists in an arrangement of devices whereby equirements of each case. and, as may be necsesary to obtain the most protection from a storm or the sun's ray .]

50,262.- Hammer.-Chas. Monson, New Haven, Conn. I Claim, First. The applicatiou of a spring or springs, or their
equivaleet, to hammerrs and other similially used instruments, con-
sruncted sitbstantially a a and for the purpose herein set forth. Second, Connecting hammers and similarly used instruments to
the handie or shauk therept; substantially in the manner herein set
forth, and either छith or without the use o a apring, as described, orh, and either With or wis
50,263.-Blasting Plug.-Charles Monson, New Haven,
Clainn.: the combination of the plug, A. and bar or bars, B, con
I claim the combination of the plug, A. and bar or bars, B, con-
structed and unated together by a iont or its eauivalent, subs an-
tially as and so as to operate in the manner and for the purpose

I 261 , Row Leck.--Peter W. Neefus, New York City:
I claim the construction of the base plate, , with tos slots, $b$ b I claim the construction of the base plate, B, with tits slots, b b,
and socket and chamber tor the recention of the shank of A, and
the lugs, a a, and a a, constructed and combined substantial s as the lugs, a a, and a' a', cons.
and for the purpose specled.
50,265.-Blower for Steam Generators.-David M. Nichols, New York City:
I claim the combination of a chimney with a gridiron steam Iower, construct ed substantially a a above set forth.
I also claim the gridiron stame blower composed of a series of
trais in perforated pipes extending crosswise to a distributing pipe y $\mathrm{w}:$ ci the perforated pipes are supplied with steam, substantiall 50,266 . - Boiler for Treating Straw.-T. A. Nixon, Phila delphia, Pa.:
I claim, First, The comblnation with a horizontal revolving bolle of pass, and which maintain the contents of the boiler in constant
agitation, for the purpose specifed.
Sece
 50,267.-Granary.-B. M. Nyce, Cleveland, Ohio
I claim so constructing and arrunging grana ies and other build
ings ror sim lar purposes. Fhereby heg are adapted to thee mploly:
ment or uilizing of waste bittern from salt works, within airtight walls, substantially as described.
0,268.-Cooking Stoves.-Clinton J. Paine, Painesville, Ohio.:
Firt. I I claim the special use of the direct heating and directly
continuous flue, $\mathrm{C} C \mathrm{C}$ constructed as shown in Fig. 3 . so that the
ame is double radiating or so that pace or spaces is obtained from both its sides or surfaces, the same

 plate, B, in combination with thesaidflue, C , as described, and fo
the purpose set forth.
Third. The special constru tion and use of the fire draucht devjce V , as escribud. and for the purposes set forth.
Fourth, Adapting the he it absorbing and
ples of galvanized sheet iron for forming the outside 5 .ite pof $m$ ave, by flling skele on castiron frames therewith, and using then air, for the purposeof preventing the escape of the heated air there
from, as herein epplained.
Fith, Constructlug the stove in the manner
 , sis exulained, ard for the purposes sta the heat of the direct flue Se enth, The kap biserer, K, constructed described, and in combination with the aperture $J$, of the oven
chaunel, , and aperture, $L$, and operating as and for the purpose
set set forth. The removable reflector baker, A', constructed as de-
Eribhth tocated and used in the manner and tor the purpose set Nith
Nint, The use of the circular gratings, $T$ and $T$ ', when yoked or
coupled with the bar, V , as and tor the purpose described. 0,269 - Horse Rakes -Geo. Palmer, Littlest First, I caim the slarp cutting sickle edge rake teeth, the sam Second, I cla im the applicition of vulcanized india-rub er tube or the unppor of the driv. $r^{\prime}$ 'seat of in combination with the mode of
djusting tile same, as herein described. 50,270.-Dust Pan and Brush.-Chas. H. Parker and Gridley Burnham, Waltham, Mass.
 cribed.
dust pan indionrelates to a further improvement in a combine 865.1

0,271. -Marking Attachment for Sewing Machines.-
Stephen Perrett, Yonkers, N. Y.:
having he parts aperanged and construated and the mowng maching
actuated directly fom the rocker shaft, subetant 5,272. - Machine for Mending Scythe Snaths.-Alfred
S. Philbrook, Cluremont, N. H.:
or the snath, with its rings, i ii a and its combination and and desired ment with relation to the cross pieces, $\mathrm{B}^{\prime}$ ' ${ }^{\text {combination and the beam arrange }} \mathrm{E}$, sub-
stantially as descrioed and for the puroses set forth. 50,273.-Knob Latch.-Hiram, Richmond and Alfred loude, West Meriden, Conn.
We clamm the pin or rollers artached to either side of the rod which
connets the handles 1 c combination with two inclines in the slotted hank ot the bolt, one on ether side of said connecling rod, substan
which ovens by pulling or push ing the handle instead of turning the a3me, as usual. the bolt being pressed forward by a spring not provided with an inclined plane, so thollers or pins projecting from the sides of the connecing rol orce the bolt back against the action of the spring.]
50,274.-Grinding Mills.-James C. Roberts, Adams

$$
\begin{aligned}
& \text { town, Md.: } \\
& \text { irst, I clainn the }
\end{aligned}
$$

Frst, 1 ciain the vibrating palw frame or its equivalent. operate osed gearing and adjustable suspeusion rod for raising or lowering
 raising and lowering the bridge plece.
Third. In thisisconneection, and automa ticaly operated, I claim the
ods, $O$ and I , and wheel nut, H, forming a e as to length, for the support of the movable end or the bridg piece.
-E. P. Rogers, Corning, N. Y.:
I claim the constraction of an instrument, substantially as de
scribed, so that two jaws, as at C G Fig. 3, with corresponding out
ine, turning upon a center pin, c , maybe simultaneoslo so as 10 touch convenient points in any circles, while the line of the
nner edge of the tongue, a, shall be the radius ot sult circl 30,277.-Still for Distilling Petroleum.-John Rogers, New York City:
ydro-carbon liquids by passing the of distliling petroleum or othe through heated pipes
hat r their equlvalents in the Interior of the still for the purpose of
receng the ame from their most volatile constituents, substantially [This invention consists in the application of a series of pipes, a ranged in the interior of an ordinary still or retor $i$, one plpe leading placed into the still near its exterior, and just below its center, in combination with suitable escape pipes, in such a manner that the crude oil on being let into the still has to pass through the heated oipes in the interior of the same, and during its passage through in pes it is freed fom its ightest or most volatile constituents. then, and much time and labor be saved ]
0,278.-Brake for Horse Power.-Wm. F. Rundell I Glaim the placing :
 cast off from it, be hrown in contact with a brake, and the machin
ery at once stopped, the tension of the band when on the whel,
reeping the latter tree fren the ore I further claim the hinged plates and spring catches, applied to the
herings of the driving shaft, in the manner substantially as and for the purpose specified.
50,278... Pea Sheller and Cherry Stoner.-Gelston San-
ford, New York Cilty: I claim the two adjustable rollers, A A, in combtnation with the purpose specifted.
50,279.-Stockings.-E. V. Sears, Boston, Mass. I claim, as a new article of manufacture, a stocking, which is pro
vided with means for receiving the supporter, b. 50,280.-Apparatus for Drying Straw Boards.-Wm.H Severson, Cohoes, N. Y.
I claim First, In dryers for treating straw boards and other articies
to bed died, the use of stationary dryn vesels, substantially 11 ke
that shown at $E$, with hinged pressers fh ose sides are flexible and porous, or open, substantaally as above described.
Second, I allo claim the hivged pressers, composed of adjustable
rames, an flex 1 ble porous sides, D , distended on sald frames, con 50,281.- Mill Roller.-W. H. Seymour, Ravenna, Ohio I claim the herein described
new article of manufacture.
$50,282 .--$ Locomotive Car.-Henry F. Shaw, West Rox-
bury, Mass.: claim
 one may turn horizontally ab abut
forth, and for the purpose described.
50,283.-Transmitting Motion.-Henry F. Shaw, West I ciaim, First, Transmitting motion from shaft to shaft when at an angle with each other, by means or the sloteted connecting rods as described
second, Giving motion to the drlving whels. of a locomotive
dummy ensine, or street steam ralway car
 ne socted connecting rods, J and K, or their equivalents, arrange
and operatrng substantially adderserved.
Thrasing the vertical driving shaft A, through the center 50,231. - Duplicating Deflector for Photographic Purpowe - Drvid Shive, $1 \cdot$ hiludelphia, Pa.:
I clame the deflector. A, arm, B, and Chitup. C, constructed an
arranged so as to operate, when appled to a camera, substantiall 50,285 .-Ventilating Device for Hats.-Wm. Smith Iclaim First
I claim, First, T e frame, A, constructed and adapted for being
 50,286.-Process for Cooling Air.-D. E. Somes, Wash I cington, D. C.: 50,287. - Coupliny for Shatts of Boring Tools.-Job B I claim, in tistereniar drilling tools
the coup ngy of drinling rows, locsing the parts to each ocher by
 50,288.-Pill Machine.-Daniel J. Tittle, Albany, N. Y.:
 s set furth.
Second, I claim the mode of fiting the scrapers, m in $\mathbf{v}$, each upon
cross shat, with a spring to keep the scraper, off the roller, but yela win escrews are applied to press the scraper

 Fourth, I claim an incline, 3 , combined with a pair of grooved roll
ors, and operating as speciied, to give arotary moveme..tt the the strip filti, I claim the combination of the incline, w, and grating, $x$ with the gromped rollers, s, and t, for receiving the pillil as atheg, ace
delly tred rom said rollers, and causing them to continue to revolve In the direccion before ackgurrd, while passmg to continue to revolve
and over the grating, $x$, for separating the imperfect inclined, as ' set
and

50,289.-Combined Shirt and Braces. Willian H. Towt I clain a shart provided with straps, intended to take the fice of
suspenders, substantially in tho manner above described nuld for the purpose set forth
50,290 .-Curd
, Liverm Cutter.-Christopher Wadsworth. East Livermore, Me.
sicers and aquares in for cutisiluif curd, as herein described, both the 50,291.-Dental Operating Chair....James 0 . Whitcomb
New York City: New York City .
I claim the base, a, stand, $B$, in com bination with the ring, y , pro
idell with bearngs for the nut wheels, $b \mathrm{~b}^{\prime} \mathrm{b}^{\prime \prime} \mathrm{b}^{\prime \prime}$, and bevel whels,
 shown.
r claim the cams, , when attached to the rod, h , and operating
n the pins or studs, $f$, as herein de cribed and shown. on the pins or studs, f, as herein de cribed and shown.
I claim the manner of arrain ing and adjusting the vertically and

 y the screw, $n$, an
scribed and shown.
50,292.-Sawing Machine. - Orsamus A. White and
Isaac W. Bostwick, Norwalk Ohi : First, the combination ana arrangement or ierer, $Q$, le ver, BB ,
nd pulley, e , and cord, E operating sutstantially in the manner Sd for the purposes speciflea.
Second, The combination and arrangement of the guide arm, $A$
ever, $H$, pulleys, $d$, and cord, $F$, operating substantlally in the [This invention consists in combining or arranging a shaft with a orse power, and also arrangin the piman of the latter in such manner that both a a

## by one an desired.]

50,293.-Apparatus for Cooling Malt Liquors.-Francis L claim the described improvement in appa
 specifled claim the laterally vig.zagged or undulated :litrits
 50,294.-Steam-warming Apparatus.-Chas. A. Wilson Cincinnati, Ohio


 50,297 .-Sewing Machine.-Francis D. Ballou, Abington Mass., assignor to Alfred B. Ely, Newton, Mass.i
 $t$ Sillly $\mathrm{H}_{\text {the }}$ thanmer and for the purpose set orth.
stantially in the manner and for the purpose set forth. 50,298. - Hand Pegrer.-J. H. Brown, Boston, Mass., assignor to Alfred B. Ely, Newton, Mass.:
I claim criving the peeg by the reaction of a spring, compressed by
50,299.-Button-hole Sewing Machine.-Emil Cajar (assignor to himself and John H. Thieling), New York $\underset{ }{\text { Citty }}$ :








 50,300 - Folding Bedstead.-John H. Durand (assignor
 the purpose specified
[This imvention consists in constructing a folding bedstead br arranging a system of levers, commonly called lazvtongs, underneath the bed frames, which latter is made in three parts, two of which, as well as the lazy tongs, are binged to a central support in such man gether the two end parts of the frame will be thrown upward, carry ing the the bed and bedolothes.
50.301,-Holder for Fruit Jars.-Charles G. Imlay, (assignor to limself and C. C. Lathrop), Philadel phili. Pa.:
I claim the holder, A. with its feet, b, const ructed and ad apted for the recentaned free from contact with the bottom of the vessel or
be nnaintaned
oven in which they are heated.
50,302 .-Gas Burner and Stop Cock.-Edward Jones Mass.:
irst, I clim the combination of the gas burner and stop cock, in the manner and for the purpose set forth, substantially as de
scribed.
Second, In my combined gas burner and s'op cock I claim mak. ing the disks or moving suri eces of contact, of a composition of the and antimpnyy or some metal equivalent, adapted ito offer greater
resistance the che corrosive action of the gas than that of which the 50,303.-Box Opener.-M. D. Lawrence (assignor to himself and G. K. Fox), Sprin $\%$ ield, Mass


50,30t.-Cut-off Valve.-Wm. McClintock (assignor to I claim the arm, B, withits siots, a and v, formed substantially as
described, secured
withe valve spindle. and combine with the within-described operating devices, or
tially as and for the purpose set torth. 50,305.-Gardening Implement.-Roger W. Porter,
Nashua, N, H., and Jacob A. Spaulding, Hudson, N. H., assignor to Roger W. Porter, Nashua, N. H.:
 when thes se veral par searied
as and for the purpose specified
$50,306 .-$
H. Sifting Jack.- - Shepardson $\&$ Co. $)$,
Shelbourne Falls, Mass.: I claim, in combination with the permanent portion. B and the
movable portion, $C$, of the jack, the tootued are, $D$, and swinging toothed arm. F operating together for the purpose and in the man-
oner sustantialy as he cin described and represented.
ner substantially as herein described and reprtsented. I claim the water wheel.S. constructed, Les specitied, when arrange
ir combination with its sheel box a nd plpes, A and $B$, as herei described and for the purposes set forth.
ndicso claim, , mombin combination with the above, the counter, I , the
ndicat K , with the case, M , when arranged as herein described and for the purpose
50,308.-Drawers.-James Ware (assignor to himself and C. Y. Ward) New York City:
 son
fortlie purposc lar rein specified a pair
stitumg a new article of mant tacture.
drawers, which is made toextend down to the bottums thereof, and
in inserting in the bottom of said gore an elastic band for drawin
or gathering up the bottom of the drawers, so as to make them fit snugly to the leg or ankle of the wearer.
50,309.-Railroad Chair.-H. W. Warner (assignor t himself, Franklin J. Pratt and Edmund W. Russell) claim in combination
I claim in combination with the beveled end rails, $\mathbf{C}$ C, the rail-
road chair, constructed with the corresponding beveled or inclined
surfaces, d d, for the purpose of bridgng and surfaces, d d, for the purpose of bridgng andgradually breaking the
joint tetwen the rails, for the purpose setfortind
In combination with the back piece, B, I claim the projection, b, In combination witin the back piece, B, I claim the projection, b,
for the purposeo of bracmg and strenthening the back piece.
I claim a rairoad chair cunstructed with the back piece, B. in Ined surfaces, , , brace piece, b, and bed plate. A, substantially as
described and for the purpose set forth.

50,310.-Lamp Cleaner.-Robert White, Kingston, C I claim the the combination of the thumb piece, D. tubular slide, eyes or loops by which they are hinged at their upper ends perma
nentig to the handle, A, and at their lower ends to the slide, $\mathbf{B}$, a as herein to the hatif
50,311.-Bobbin Holder for Spinning.-Edward Wright (assignor to John Goulding), Worcester, Mass.: described. Making the bobbin holder by puuching out the metal to
Second, Mer Third, The combination with the bobbin holder, C , of the expansi
te band, E , substantally as set forth. ble band, E, substantially as set forth.
312.-Handle Attachment to Small Arms.-Edward

Charlesworth, Lendon, England, assignor to Chas
P. Button, New York City:
poses towhic $h$ it is applicable, as abovore set forth, in connection with
gun constru cted whthout the ordinary stock or shold
50,313.-Mode of Keeping Gunpowder.-James Gale
Jr., Devonshire Terrace, England. Patented in
England, June 27, 1855.
I claim the combining fire-dry unexplosive powder with gunpow
der, and in sceparating the firedry powder from the thunpowder
when it is required for use, su bstantialy as her in de scribed. 50,314.-Telegraph Cable.-William Peter Piggott London, England.
First, I claim the method of giving a static charge to a cable and
the means by which this is accomplished, as is set forth, manner in which I construct my generators, and which are equally water, rort, The a apphication and use to and in the transmission on on
electric sitanal electric signals of statically c clarged cab
in the manner hereinbef ore described.
Third, The combination in an electric
Third, The combination in an electric cable of two wires or series
of wires of oposite eletrical denomination, one of such wires or pries of wires being connected with earth at each end by corre onnected 10 a gaivenometer or receiving instument, wi ich is itsel Fouted with earth by acorresponding earbl piate. or more wires
Fourth. The combination 1 an electric cable of two
or wire strand of one electrical denomination, connected through a ga wire strands of one electrical denomination, connected through a
or covemater of receiving instrument with eartu, and of a wire core
opposite electrical denomination, in permanent connection with earth at each end, as hereinberore described.
Fifth, The application of min ganglin111 to old
aro damaged cabtes of the ordinary construction, tor the purpose ot or working the
same by the aid of induced electricity, in the manner hereinbef ore
described.
50,315.-Manufacture of Artificial Stone-Frederick A pril 9 , 1861:
I claim the ma nuacture of artificial stone by mixing sand, chalk
or clay, with or sithout ot her matters, with a soluble slicante, which
atter mold ing or plastering, is rendered insoluble, substantia'ly as
her
50,316.-Manufacture of Artificial Stone.-Frederick
Ransome, Ipswick, England. Patented in England, Feb. 24, 1864:
claim the treatment of artificial stone, produced a ccording to my
previous patent. by employment of a s solution of carbonate or bi
carbonate of soda, or equivalent carbonate of of soda, or employmment of a solution of carbonate or bi
chloride of calcium, or equivalent salt, and ecompose the excess or produce an insoluble chloride of calcium, or equivalent salt, and to produce an insollable
substance within the pores of the artiticial stone, substantlally as
herein described.
50,317.-Fabric for Skirt Lining and Binding.-Charles Spannagel. Barmen, Prussia. Patented in England, Feb. 8, 1865
article of manufacture, when skirt bordering and binding as a new
and for the purpose substantially asisetforther, in the maner
and for the purpose substantially as;setf orth and specified.
50,318.-Device for Arranging Tapes, Ribbons and
Threads for Use.-Marcus Brown Westhead, Manchester, Eng.:
I clairs the app
above set furth.
[The object of this invention is to make up tapes, ribbons and other such narrow fabrics or thread in sucil manner that the consumer may be able to unwind or rewind them and retain the coilsin ompact form. 1

50,319.-Puddling Furnace.-John Williams, Montreal,
First, E.: $\begin{aligned} & \text { I claim the novel arrangement in a puddling furnace of a } \\ & \text { bilind grate with the ordinary rate. toge ther withthe combination } \\ & \text { of slide doors trap doors tewel holes and air chambers, whereby tor }\end{aligned}$ of slide doors, trap doors, tewe holes and arr cha mbers, wherebvy tor
all the fuel consumed in the blind grate the benetit is alt the ruel consumed in the blind grate the benefit is recelved in.
the body oithe turace on the iron. with much less of tie fuel pass-
ing up the chmney than in the ordinary furnaces. the different grates claim the intıoduction of the hap doors for letting the ashes, cinders, etc., fallinto the external ash.
pit, and thus save the hanling out of ahbes when the furnace is in
pora ion thereby effecting a savng in time
opera ion, there by effecting a savng in time.
Third, I claim the peculiar arranement of water boshes, whereby
water may be employed without the danger of explosion f rom the water nation of steam.
[By the use of this improved puddling furnace a tun of iron can made with one-third less tuel than by the ordinary furnaces now iron ore and at the same time with bour or the cement or in less time.]

## REISSUES.

2,079.-Mowing Machine.-Rufus Dutton and Richard L. Allen, New York City, assignees by mesne as-
signments of Rufus Dutton. ratented March 15 , 1864:
First, We claim changing the cutting apparatus from front to rear and fom roar to rroat of the wheel of the machine by means
of detachinur and reversing the parisof the thear casing, CD, draught
rod, O , and cross bat, A, substantially aset forth rod, ,', and cross bar, A, substantially as set forth.
second, Bending the cross bar, A, substantially as descrincd, for
the purpose or deppessing the end of the casing, together with the Pront-cuting machlincs, substantiallv, as set forth,
Third, The construction ot the iraught rod,
, with a bend or curve at one end, as described, whereby such rod is adapted, on being reversed or use, either in frons or rear-cutting machines, sub-
stantiallv as and fort the purposcs set ferth
Fourth, attaching the line of draught in hrresting machines as
to



Firth, In machines having two driving or supporting wheeis, an
also a hinger, tinger bar and loose pole. and in which the driver'
seat is controlled by the pole or shafts, instead of being controlled by she is controled by the pole or shats, instea of the machine, the frame of the molding being alio snp ported directly 1rom and by the axle, and not from the pole, attach
ing the dratiod or chain the shoe, or to uch part of the frame as receives an upward and downward motion from the shoe as
 set forth.
redge Garvin, Philadelphia, Pa. Antedated March
22, 1865. Patented Aug. 8,1865
I claim the combination of the revolving cutter, E. the stationary
guide and feeding screw rod. D, and the centering draught dog, $\mathbf{H}$
as and for the purpose as he ein specified and described.
2,081.-Auger.-Russell Jennings, Deep River, Conn Patented Sept. 30, 1865
I claim the proiecting of the floor lips in advance of the cutting
sur. when said cutting edges are on parallel lines not passing
hroug the axis of the auger, and are horizontal hrough the axis of the auger, and are horizontal on ther cutting
ine, as and for the purposes substantially set forth. 2,082.-Steam Boiler.-H. C. Sergeant, Columbus, Ohio. Patented Aug. 22, 1865:
First. I claim the combination of the petal cylinder or casin
around the fire surface, wlth the fire box and reservoir for a body Second, I also claim the combination of the fire flue and casing sheet and convey it upward in contact with the flue.
Third, I claim so arranging the casing around the fire surface o casing, while the current of water is in contact with one side of the casing, while the current of water in in contact with the other side
substantialy the same as specified in the foregoing specifications.

## EXTENSIONS.

Steam Engine.-Frederick P. Dimpfel, Philadelphia Pa. Patented July 1, 1851. Reissued Feb. 21, 1865. Extended July 1, 1865 :
steam piston of a steam engine with tescribed for connecting the consisting of a pisto rod rod tixed cross head, side thereof, said mars, means
necting rod con
fork belt, or the equivalents thereot, the severald necting rod and belts, or the equivalents thereot, the severaldeviees
being arranged and operating substantially as herein set forth. in
such manner that the cross piece of the connecting rod whci in in such manner that the cross piece of the connecting rod whicl is
placed transverselv to the crank hhat shall be on oposite sides of
the axil line of said shaft, at opposite extremities of the stroke of the axil line of said shaft, at opposite extremities of the stroke of the piston. The forming of the eduction and induction chambers in
second. The
winder heads of steam engines, and furnishing them respectively
with supply and exhaust valves, substantially in the manner and with supply and exhaust valves, substantially in the manner and
for the purposes described.
Third, The forming of two steam chambers in one or both heads tion steamp pipes, and with puppet or other valves, in such manne as that al large portion of the speam or other valves, in such manner
wasted in the nozzes or steam ways of engines, as ordinarily cont or structed, tubstantiaily ard described. of engines, as or inarly
Fourth, The removable chambered cylinder head, in combination with the extension chambers, $u$ u, and steam pipes, $r$ r connected
 duction and eduction valves with th
cylinders, for the purpose set forth.
Reaping Machine.-Wm. H. Seymour, Brockport, N. Y
Patented July 8, 1851. Reissued (A) May 31, I864. I claim, First. The combination in a harvesting machine of the
cutting apparatus, to severthe stalks, with a ree and with a quad nese three members being and operati ing substantially as apet fert Second. The combination in a harvesting machine of the cutting
apparacus. with a quadrant-shaped platform in he rear of the cut. tir, apparatus. a sweep-rake mechanism for operating tize same,
arid devices for preventing the rise of the rake teeth. when operat.
ing on the ard devices for preventing the rise of the rake teeth. when operat-
ing on the grain these five members being and operating substan
tially as set for th.

Reaping Machine.-Wm. H. Seymour, Irockport. N. Y,
Patented July '. 1851. Reissued (B) July 10, 1860 I claim the combinaidon of the arm, rod or lever, which carries a
vibraing sweep rake, with a guide rod, which forms a movable
fulcrim tor the rake head, substantially as described, for the pur. fucr inm for the
pose set forth.
Reaping Machine.-Wm. H. Seymour, Brockport, N. Y.
 1865:
I claim a quadrant-shaped patform, arranged relatively to the
cut ting a parataus, substantially as herein described, for the pur.
pose set forth.
Processes of Bleaching trory.-Vlyss: Pratt, Deep River, Conn. Patented Janl. 6, 1852
July 6,1851 . Extended July 4, 1865 : I clai $m$ the improvement in the processo of bleaching ivory, as set
forth in the speciflations; i. e., the raising up of one edge of the prece of ivor y above the plane of the frame wpich one edge of the
sustaining it in its place, in the manner described. Fire-proof Safe.-Lewis Lillie, Troy, N. Y. Patented July 15, 1851. Extended July 11, 1865 : ing a safe, in the manner and for the purpose suostantially the same
as descriod.
Securing Pinions, Etc., of Watches in Lathes.-J. M.
Bottum, New York City. Patented July 15, 1851.
Reissued July 8, 1856 . 1:xtended July 12, 1865: I claim the employment of adhesive cement for screwing staffs
and pinions of watches. and like articles of small dimensions, for lathe operation, in combination with a chuck, A, having a female
center, a, therein, either with or without the tube, $B$, or its equiva-
lent, as described and set forth, or any device, substantially the lent, as
same.
Printing Press.-George Pr P. Gordon, Brooklyn, N. Y.
Patented Aug. 5, 1851. Reissued July 31, 1860 . (No. 1,021.) Sixtended July 20, 1865:
b nation with a rocking plateng rocki us tom and from the impression, b nation with a rocking platen, rocki us to and from the rmpression,
forthe purposs hrrein set torth, substantially as described.
Second, claim rooking the inking-roller arms or frame upon a
center, so that the inking rollers may pa-s and repass over the form center, so that the inking rollers may pa-s and repass over the form
of tyes for eaccl and ever impression whether sard rocking frame
be constructed in the preme manner described, or in some equivaThird, Iclaim the bearers, or their equivalents, in combination
with the rocking inking roller arms or trame, or the purpose of passing and rep ssing the inking rollers over the type, or form, in a
line parallel with the face of the type. when each workin. roller
frame shall frame shall carry the inking collers forward and backward over the
type for each and every impression
Fourth, I claim vibrating the bed from the point of its receiving the inking rollers to the point ot imp-ession, as described. Fitth, claim the rocking inking-roller arms or frume in combi-
nation with a vibrating bed substantialy as herein spectifed.
Sixth Sixth, I claim construsting a printing press with a rocking platen,
so that the pressman, while teeding and driving the press, may stand
directlv in frontof said press for such purvo out changing his position to see the face of such rocking platen as
it rocks or turns toward him for the reception of the sheet to be
priuted printed the face of the type or forn as at move mes to and from the
pmpression; the ink-distributing cyhnuer, or its equivalent, from its
being plo being placed at the top of the press; and the inking rollers when
inking tlje type or form- thereby enabing said piessman to detect
an mpertectinn the working of these parts of the press all sub.
stantially as herein set forth.

Printing Press.-George P. Gordon, Brooklyn, N. Y.
Patented Aug. 5, 1851. Reissued July 31, 1860 Fi: st. I claim support:ng upon a center or cent




 sheot to be primted or whine receeving platen. the impression, receiving per
rest during tie countinued motions of other parts of the press.
Proces; of Forming Stitches by Machin.ery.-Allen B Reissued Feb. 28, 1860. (No. 913.) Extended July 24, 1865 :

 scrised.

## 

 Third, I claim a revolving hook so shaped as to $o$, erate substan



 ined with another surrace so as to grasp cloth betwee when chen and
ish with a feeding instrument which is out of conta ot with the oth when it is thus clamped, the operation being su sh that the
 Seventh, craim arranging a hook that operates subst antially in
he manter spectied in such relatve position too tatile to $r$ support

 hoves in a vertiealang planere, rur
mor
stantially such as described.
Process of Forming Stitches by Machinery.-All en B Reissued Feb. 28, 1860. (Natented Aug. 12, 1851.
24, 1865

## 

 siou of the next succeeding loup, as distinguished from
up of the stitch by the motion of the needie or needile ba
Sewing Mathine.-William H. Akins, Dryden, N. Y. ented Aug. 5 , 1851. Reissued April lit, 1865. Ex cted Aug. 5, 1851.




gradid movement.
1.curnti, Then tombination in a a sewing machine of a a stitch forming
mectanism whth a cylindrical rest, for the purpose of supporting mechanism with a cylindrical rest, tor the purpose of supporting
articles on curved or Rith, The combination of a toothed feeding instrum
versiole driving meclianism. substantially as set forth.
Sewing Machine.-Isaac M. Singer, Yonkers, N. Y. Patented August 12, 1851,
Extended August 7, 1865 :
It claim givns to the shuttic an additional forward movement afte

 described.
tion ilim controlling the thread by what 1 have termed the fric.
tion pait betweent the seam and the bobbin, or any euaivalent theretion pai
tor
spectifiest
I
 Whill anead eschabed when this is combined with the carrying of the
tial
saill thread through an eye or guide attached to and moving with




Machine for Numbering the Pages of Account Books. John McAdams, Brooklyn, N. Y. Yatented Aug. 12,
1851. lReissued Jan. 26, 1858. Extended Aug. 11 1865: for rrintine the pages or the whole book, substantially as heen ein de
scribed to wit, arrungtug the types ot the several numbers from





 or umbers or two pages oneachl
nig once throughi the machine.
Nut and Washer Machine.-Robert Crichton and James Rees, Petsourgh, Pa., Executors or Henry carter
(deceased) and James lees. Patented Aug. 26,
1851. Reissued June 19, 1855. Extended Ang. 14, 1865.

We claim the machine, substantially as herein described, for makk
ing nuts, by cutting the blank trom a heated bar of Iron, punching
its eye


Insulator for Lightning Rods.-George W. Otis, Lynn,
Mass.
Patented Aug. 26,1851 .
Extended Aug. 25, 1865 : Patented Aug. 26, 1851. Extended Aug. 25 , I claim the insulated support and point for lightning rods, ennsist.
and
of the insulared point and opening in its shank, the insulating
 Leather-splitting Machine.-Hubbard Harris, Ensfield, N. H., Administrator of Alpha Riclardson (de 15, 1865 .


## pose specitiee


 1ower or cast-iron plate. may project under the edge of the knire an
hold up the split as herenabove set forth.
Mowing Machine and Harvester.-Mary Manny, Rock
Patented Sept. 1851 Reissued Jan. 2, 1855. (N0.
286). Extended Sept. 22, 1865

I claim the combination of the bar that supports the cutter with a
 whereby the out
herein set tiorth
Arrangenent of Joints for thaching Trucks to vester Frames.-Mary Manny, Rockford, Ill.. Ex-
ecutrix of John H. Manny deceased). Patented Sept. 23, 1851. Reissued Jannary 2, 1855. (No. 287) Extended Sept. 22, 1865
I claiiu the arrangement of a flexible joint in the line of the cutter
or chereabouts. in sucl manner that the machine will pend freely up
 Arrangement for Controlling Harvester Cutter.-Mary (deceased). Patented Sept. 23, 1851. Reissue Jan. 2, 1855. (No. 288). Extended Sept. 22, 1865:


 Machine for Making Nuts, Washers, Etc.-William Ken yon, Steubenviille, Ohio. Patented Oct. ${ }^{14}$ 1851.
Reissued March 18, 1856 .
Again Reissued Feb. 15 , 1859. Extended Sept. 27, 1865:











 - Arranging the compressing dies. In relation to to the punch

be force.
securing
macinne.


و3 ATENTS
granted

## FOR SEVENTEEN YEARS

## MIUNN \& COMPANY,

Tha connection with the pubication
the SCIENTIFIC AMERICAN, have ac
as Solicitors and Attorneys for procuring "Letters Patent" to neto indentions in the United Stat ${ }^{2 s}$ and in all foreign countries during
the past seventen years. Statistics show that nearly one-half of al the past seventeen yocrrs. Statistics show that nearly One-half of a re applications made for paten ts in the United states are solicite hroughthis ollice, while nearly THREE-FOURAS of all the paten taken in freign countries are prot ured through the same source. aring specifications and Crawings 1 or the UnitedStatesPatent Ofice he proprietors of the SCIENTIFI!: AMERICAN are perfectly $C$ Co ersant with the preparation of applications in the best manner, an the transaction of all business before the Patent Office; but the ake pleasure in presenting the annext testimonials from ex-Com missioners of Patents.
Mess ris. MUNN \& CO.:-I take pleasure in stating that, while I held
he oftice of Commissioner of fatents. MORE THAN ONE-FOURTH OF LI, THE BUSINESS OF THE OFFICE CAME THROUGH YOUR HANDS.
ve no doubt that che public confidence thus indicated has bee lullydeserved, as I have always observed. in all your intercourse with
ine office, a mar ked degree or promptness, skiill. and fidelity to the
interests of your employers.
Yours very truly.
[Slee Judge Holt's letter on another page.]
Hon. Wm. D. Bishop. late Member of Congress rrom Connecticut, MESSRS. MUNN $\&$ Co Co-It
gives me much pleasure to say that, du ing the time of my holding the office of Commisstroner of Patents, a
very large proportion of thie business of inventors before tne Patent
Oftice was transacted through your asenct: and that I iave ever

the examination uf inventions.
Persons having concelved an idea which they think mas be parent
bie, are advised to make a sketch or model of thear invention, and
submit it to us, with a full description, for advice. The points of oovelty are carefully examined, and a written reply, corresponding Co., No 37 th, is promptly sent
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