brim in shape, and yet preserving its flexibility; such a hat beivg light, cheap and capable of being folded up in such manner that it may be carried in an ordinary pocket without inconvenience. W. H. Mallory, of Watertown, Conn., is the inventor of this improvement.

Submarine Gun.-The object of this invention is to construct a gun which is placed in the bow or any other part of the vessel, below the water-line, and which is so constructed that the same on touching a hostile vessel discharges its contents and pierces said hostile vessel below the water-line,' and below those parts usually protected by iron armor. The invention consists in the arrangement of a gun projecting from the bow or any other part of a vessel, below th water-line, in combination with a hammer and trigger or their equivalent in such a manner that when the muzzle of the gun comes in contact with a hostile vessel its charge is exploded and said hostile vessel pierced below the water-line, and below those parts which generally are protected by iron armor. The invention consists further in the arrangement of a screw cap and packing rings, in combination with the muzzle of the gun in such a manner that the water is effectually excluded from the barrel of the gun, and at the same time the egress of the ball or shell from the muzzle is not materially impeded. The invention consists further in the arrangement of a hinged and of a rising and falling sliding valve in combination with the stuffing box, through which the gun passes in such a manner that when the gun recoils on being discharged said valves drop down immediately in front of the gun, and prevents the water following after the gun into the interior of the vessel. The invention consists finally in the employment for the purpose of introducing the charge, of a tube fitting into the breech end of the bore of the gun, and provided with a plunger acted upon by a saw, and provided with a stop to arrest it in the proper position in combination with a rising and falling wedge or check block in such a manner that the charge can be forced in from behind and deposited a the proper spot of the barrel, and the barrel can be firmly closed by the check block ready for firing. Joseph Duffis, of Paterson, N. J., is the inventor o this improvement.
Evaporating Kettle.-The object of this invention is the economical use of coal as fuel for heating a long train or block of kettles, such as is employed in the manufacture of salt, and the uniform heating of all the kettles in the block or train. The fuel now com monly used in this country for the evaporation of brine in kettles is wood, the fire being under the first one or two kettles in a block, and the others being heated by the flame and gaseous products of combustion ; and as a block sometimes consists of as many as a hundred kettles arranged in pairs, while the heat under the first two or three pairs is so intense as to burn the salt on the bottoms; that under the last is so low that a fortnight is required to complete the evaporation, though it is completed in a few hours in the first pair. Owing to the high price of wood, attempts have been made to use coal for heat ing the kettles, but have not succeeded. To enable coal to be used it has been proposed to substitute long pans for kettles, but the first cost of substituting such pans for kettles has prevented its adoption. This invention consists in a certain novel system or arrangement of grated fire places, bridges, partitions and flues or passages for the economical use of coa under kettles, an important advantage of which is that it can be applied at comparatively small expense to blocks of kettles which have been already put up and used with wood as fuel. W. S. Worthington, of Newtown, N. Y., is the inventor of this improvement.
Tobacco Pipe.-The object of this invention is to preserve the tobacco in the bowl perfectly dry, and to prevent the moisture, which may pass through the stem, from coming in contact with the tobacco, so that the same burns just as well and tastes equally sweet at the bottom of the bowl as on the top. This object is attained by a very simple and ingenious arrangement of a cavity on the side of, or under, the smoke passage leading from the bowl to the tube or stem, in such a manner that the spittle or moisture, ranning down through the tube, will collect in said cavity, and not be allowed to find its way into the smoke passage or bowl, and thereby prevented from
being drawn back into the mouth.' Henry Kurth, of East New York, L. I., is the inventor of this imimprovement
Grinding Mills.-It is well known to every one who has experience in milling, that a run of stones re quires the almost constant attention of the miller to prevent them from grinding either too fine or too coarse. The reason of this variation in the grinding lies in the fact that, the spindle being heavily laden, and at times moving with considerable velocity, becomes heated by the friction of the followers (which are necessarily set snugly against the spindle to keep it from trembling) and expands and throws the runner a greater distance from the bed stone, and conse quently, they don't grind as fine as before. Then, gain, if the supply of grain is stopped for awhile, the labor of the spindle being reduced, the tendency of it is to cool and contract ; and, consequently, to bring the stones nearer together, so that when the grain is again supplied to them they will grind too fine. To compensate for this variation no provision is made except that of adjusting the runner higher or lower, by hand, according as the stones are grind ing too fine or too coarse. Thisadjustment can only be made by the miller, because only a practised eje and touch can discover the variation in the grinding and know just how much adjustment is required to correct it. The object of this invention is to prevent this variation in the grinding consequent upon the expansion and contraction of the spindle from the cause above-mentioned, and to this end it consists in having a number of longitudinal openings or apertures provided in the upper bearing of the spindle in combination with a fan which is secured to the spindle, and revolves within a suitable case below the bed stone, whereby a current of air is forced through the longitudinal apertures of the bearing of the spindle, and thereby both bearing and spindle are prevented from heating, and consequently from expanding, so that when the mill is once set to grind to a certain degree of fineness or coarseness, it will so continue to grind without any perceptible variation, so long as the grinding surfaces of the stone are in good working condition. The invention also consists in a facile mode of setting the followers up to and around the spindle. Cornelius Bollinger, of Harrisburgh, Pa., is the inventor of this improve ment.
Sawing Machine.-This invention relates to a new and improved machine for sawing direct from the og , stripsfor the manufacture of hoe, fork and broom handles, and other similar articles. The invention onsists in the employment or use of a vertical and a horizontal saw in connection with a feed carriage in which the $\log$ is suspended, the carriage being ar ranged in a novel way, and the $\log$ suspended within it in such a manner that it may be adjusted relatively with the saws, so that the latter may act properly on the log to effect the desired end.

Clothes-washing and Wringing Machine.-This invention consists in the employment of a suds-box provided with rounded ends, and having its bottom and onds covered by a series of rollers; the above parts being used in connection with a rubber which is also provided with rounded ends and rollers and a perforated top, all arranged in such a manner as to operate very efficiently. The invention further consists in the application to the suds-box of a wringer, arranged in such a manner as to be capable of being operated by a treadle, in order to subject the clothes to the requisite degree of pressure. Isaac W. Bowers, of Ovid Center, Mich., is the inventor of the above two patents, which bear date Aug. 25, 1863.

Lengthening the Canal Loces.-The engineers on the Erie Canal are making a survey for the proposed extension of the locks. The surveys and estimates are for locks]two hundred and twenty-five feet long between the gates, and wide enough to pass boats twenty-six feet wide-the estimate to be presented to the legislature on the first day of its next session. It is supposed that locks of these dimensions will onable boats of five hundred tons burden to navigate the canals, and also pass iron-clad gunboats into the lakes if required. Some idea of the size of these new structures may be obtained when it is remembered that the present locks are only one handredand ten eet long between the gates, and seventeen feet four inches in the bottom.


ISSUED FROM THE UNITED STATES PATENT-OFFICE FOR THE WEBE ENDING SEPTEMBER 8, 1863.
** Pamphlets containing the Patent Laws and full par viculars of the mode of applying for Letters Patent, speciying size of model required, and much other information aseful to inventors, may be had gratis oy addressing MONN \& CO., Publighers of the Soientipio Amerioan, New York.
39,787.-Mode of Removing Obstacles under Water.Thomas K. Anderson, Hornellsville, N. Y. Ante-date Oct. 26, 1862:
a manner thatll may be ga cannon or mortar, constructed in sucb anmanner that thay be guspended, and the muzzle brouzht to bear
upon an obect an an anie or in any poetion, under water, in the

39,788.-Construction of War Vessels.-Peter Andrew, Cincinnati, Ohio:
 for the purpose sel forth.
 Whird, I Alaoc caim the eombination of beam, with the deck plank, Fourth I ciaim the fock piecese, \& I. in ocombinetion with the ram.
part, or the beak of the vessel, Bubetantally in the manner and for

39,789.-Self-cleaning Chuck.-Jno. W. Bartlett, of Har mar and A. Morris, of Marietta, Ohio : combination with 1 sel rort.
39,790.-Scroll Saw.-Abram Beekman, New York City ockers, $\mathbf{D}$, osaw , 1 ,
 39,791.-Car Spring.-J. D. Billings and F. L. Tyler Ratland, V t .

39,792.-Mode of Cleaning .Chimneys.-C. D._Blinn, Port Huron, Mich.:
con nected by a fulcrum pinp-chimneys composed of two mods, A A or woolen twist or other fibrous material substantially as set forth. [This invention consists in the employment or, use of two bars or rods connected by a fulcrum pin, and having a suitable fibrous mate rialattached to one end, the parts being so arranged as to form a very convenient and efficient device for the purpose of cleaning lamp chimneys.]
39,7 93.-Grinding Mill.-Cornelias Bollinger, Harrisburgh Pa.: ciaist, The fan, E, attached to the spindle, $\mathbf{D}$, and revolving Withat upper bearings, f, of the apindle, when the former is use torce a current or current of air through the apertures, es, of the
bearing, in the manner and for the purpose substantially as described. Seond, The keys, $c$, terminsthag at the bott $m$ in reunded scre with che ligh, b, and followers, c , when arranged to operate in the manner specified.
39,794.-Temperature Alarm.-Robert Boyle, Detroit Mich. Ante-dated Aug. 19, 1863 :
I claim the combination of the gate, G, graduated arc, E, and elec
tric alarm, H, with the index D, flost. tricalarm, $H$, with the index D, flost.
[This invention consists in the!arrangement of an oscillating inder operated upon by a float projecting from a tube partially filled with mercury or other suitable liquid, and operating between a gate or two stops that are adjustable upon a graduated arc, in combination with an electro-magnetic hammer operating!npon a suitable alarm bell in such a manner that when the temperature in'the room or [spac where the apparatus]is put © up, [rises;above or sinks below a certain point, the oscillating inder by the expansion or oontraction of its mer cury in the tube and consequentioning or faling of the flobt, is broughtin contact with either of.the stops.on the graduated arc, and thereby the circuit of the electro-magnetic alarm is closed, and the hammer is caused to sound the alarm bell.]

## 39,795.-Faucet.-John Broughton, Chicago, Ill.:

interior of the shall, $C$, in comblnation with elastic washor the ocrew cap, $D$, and handle, $G$, or its equivalent, all constructed sni operating in the mann:
show $n$ and decc ribed:
[This invention relates to certain improvements.in the manufacture of cocks, faucets, \&co., whereby all the parts can be readily finished on the turning lathe, no grinding of the plug or any other part fo required, and an article is produced which is not table to wear perceptibly and which will remain tight for any length of time.]
39,796. -Door Bell.-N. F. Cone, La Crosse, Wis.:
I claim, first, The frog, $G$, in combination with the arms of the ham-
merg, $D^{\prime}$ and with the cam, E. construeted and operathg th the maner and far the purpose subtantially as herein shown abd de Second, The ribs $h h^{\prime}$ in combination with the epringit $d^{d} d^{\prime}$ and
arms, b $b^{\prime}$, of the hammers, $D$ D', constructed and operaling in the anner and for the purpose set forth.
[This invention relates to an improvement of that class of door bells in which a striking mechanism is broughtin such rela ion to a sta ionary bell, that by rotating a crank or tinob in elther direction hammer will be actuated and the bell atruck.
39,797.-Mode of Keeping Breet Potatoes.-William and James Davis, Riachiand, Iowa
We claim packing or aning the interiticeas between and around the
potatcen with calcined or varnitend, and exciuding air or moistur porataen with calcined or burnh eitng, and exciuding air or moistur
from the potatoes by the mexne sad in the manner above substan
tially desoribed.

39,798.-Automatic Gate--Levi S. Denning, of Newing.
ton, Mass. Ante-dated April 88 , 1863 : I, claim, In comblnation the gates, oc, with the angle hinges figure
 39,799.-Governor for Steam Engines.-Frank Douglas, Norwich, Conn.: Inclaim irst, The serew.arbor, g, movable clutch oollars, $K$ and $M$,
 point iodicated ty the regulator balls. sioned to form a gulde for the
 39,800.-Skate Fastening.-Frank Douglas, Norwich Conn.

 bereln specified
39,801. -Submarine Ordnance.-Joseph Duffy, Paterson

 operating in the manner and for thel purpose substantlally as hereit
sbornand described.
Secoond, Havring the stufting box, $\mathbf{D}$, provided at front and rear with


39,R02.-Army Cooking Stove.-Horace L. Duncklee Boston, Mass
I claim the combination of a sheet.iron crllindrical or equivalently
shaped body. $A$, streng thened and siffened by band or hoon,
 etween the body and top, substans ally as and for the purpose herel set forth.
39,803.-Device for Stopping the Shattle in Power
Looms.-David S. Esten, Hinudale Mass. I claim the epprigg, b, applied to act upon the picker staff through

[This invention consists in an improved mode of applying a spring to operate upon the picker staff, for the !purpose of checking or stop. ping the shuttle in the shuttle box, whereby the use of a lighter binder upon the shuttle as it enters the box, is obviated.]
39,804.-Harvester.-Franklin Ewer, Mendon Center,
N. Y. Ante-dated Jan. 3; 1863 :





 39,805.-Mode of raising Sunken Vessels.—William K. Fairbank, Broad Creek Neck, Md.:





39,806.- Rotating Harrow.-S. M. Garver, Monticello, IIl
 [The object of this
The object of this invention 18 a rotary harrow suspended from penetration.]
39,807.-Paddle Wheel.-Rollin Germain, Buffalo, N. Y Ante-dated June 30, 1863




 and su stantialit as hereln set forth.
I claim holding the padde stationar


 poses and substanmally as set fort.
9,808.-Butter Worker.-C. \L. Gilpatrick, Lewiston Maine
 39,809.-Umbrella.-Gideon Hamilton, New York ،City Ante-dated Dec. 18, 1861
Iraining therefrom as described.

39,810--Sirup 'Evaporator.-Lyman P.Harris,' Mansfield

 39,811. -Grates for Stoves.-Luther W.'Harwood, Troy,





 divided journals,
as herefin set forth
Fourth, I also cladm in comblnation with two sllding and turnng


39,812.-Hydrant.-Napoleon Hayman, New York' City:


[The object of this invention is to obtain a hydrant which will admin of the waste water escaping from the service or discharge plpe in a sald plpe is stopped, soas to prevent the possibility of the freezing up of the hydrant in severe weather in winter.]
39,813.-Clothes-wringer.-Reuben G. Holmes, Worces I lilm, the comblnation of the two springs as shown by! I I, as folly set forth in this specification.
39,814.-Clothes-wringing Machine.-Reuben G. Holmes,
Worcester, Mass. Ante-dated April 20, 1863 :
I cladm the arrangement of the springs, K and L , so orranged as to
be ar upon the center of the bar, 1 , thereby producing aj! greater and解 are equal pressure.
39,815.-Pegging Awl-holder and ${ }^{-E x t r a c t o r .-H u g h ~ H u s-~}$ ton, Cannonsburgh, Pa.:




39,816:-Means for defending Harbors and River Chan nels.-R. H. Jewett, Mount Sterling, ill. Ante-dated

 ve esel or veessele
hereln
specifed.
39,817.-Lathe for turning Billiard Balls.-L. A. Johnson, Ean Francisco, Cal. I claim, first, The rotating center formed of the rod, 1, , provided
dithe
 nd for the purpose specilied.
Second, Tbe tool rest, composed of the adjustable plate, 1 , turning plate, p, and sllide, , a, alil arranged to operate In connection with the
chuck and rotary center, for the purpose set forth.
[This invention consists in the employment or use of an adjustable ool rest in connection with a concave chuck and a revolving center, articles may be turned very expeditiously and in a perfect manner. 1
39,818.-Dry Dock.-Casper Krogh, Kroghville. Wis.
 sers ond for purposes herein delineated and set forth.
Second, I cisim the combination andarrangement of the stationary
pernd aprights
 scribed and shown in tigure 2.
Fourth, 1 claim casigructing sald lifters or docks, B B, with the
partitions and providing them with the outlets, valves, pand valve partitions andproviding them with the outlets,
ods, and tubes, d and e , substantially as described.
39,819.-Tobacco-smoking Pipe.-Henry Kurth, East I claim a Yorking N. Y.
passage, a and mople which has its shank, B, made with a smoke and 39,820.-Gas-burner.-Frederick Lumkenheimer, Cincin nati, Ohio
 as, subter forth and described
39,821. -Water Indicator for Steam ${ }_{3}{ }^{\text {r }}$ Boilers.-George
Lutz, Lancaster, Ohio
I claim the comblnation and arrangement of the pinfon, ratchet
ooks shaft and float, substantially as set forth, ffor, the purpose spect
39,822.-Hat.- W. H. Mallory, Watertown, Conn.
ed and held in shape by mean s of covered flat steel springs, applied
n perpendicular positions, all as herein described and for the pur poses spe
39,823 .
9,823.-Metallic Cartridge.-Edward Maynard, Wash-
ington, D. C.
I clatm combining any sultable detonating compound, with a me-
allic or otherwise olld and durable cartridge by means of an arm,
cord or thong, substantlally in the manner and for the purpose herecord or thong, substantlally in the manner and for the purpose; arme 39,824.-Machine for Handling Hides.-B. ${ }^{\text {B." Mereness, }}$ I clalm, first, The combination of the outer perforated; cylinder,
with the perforated $\mathfrak{j}$ paddes of the inner cyllinder, substantially as described. $\begin{aligned} & \text { Second, } 1 \text { 'claimilgiving the surface or edge of the paddles, alternate- } \\ & \text { a a convex and a concave surface, substantially as set forth. }\end{aligned}$. y a convex and a concave surface, substlantialiy as set in erch other, none directon, and one or more diverging from the head in any op-
nosite direction, as set forth.
39,825.-Self-cocking Revolving Fire-arm.-R. S. Mershon, Philadelphia, Pa., and Jehu Hollingsworth,
Zanesville, Ohio: We claim the application of a reservoir of power to a repeating are-arm, as doscribed herein, for the purpose of cocking the hammer
and by liberatingit, rotating and locking the chambered cyllinder si-
multaneously for one or more discharges, without using the hand to cock the arm as in the ordinary, way.
Second, We claim so combining the reservoir" of power with the
hammer and its independent spring, as herein described, that the ha mmer and its independent spring as herein described, that the
action of the reservorr of power can be insantly sugended and the
hammer cocked, chambered cyllnder liberated, rotated and locked, by hand, asin ordinary band-coce Eing revolving fire-arms.
Third, We claim the axis, shatt or pinde, on which is placed the arbor for the coiled spring, the escape wheel, the hammer, the stop-
work and the winding dilis, as herein described, in comblination with
The reser for each plece.
Fourth, We
 ber lock, chambered colinder and trigger, as herein described, so that
when the reservir of power is wornd up, by pulling the triger the
hammer will be lile erated and the arn digcharged, and then by slmply
letting go the iriguer, the bammer will be tantinntly yocked, chambered
cylind er tiberated, rotated and locked. ready for anocher discharge.

 Tinding disk, as heretin described, for the purpose of accumulating
power, by winding up said reservoir of power.
 guspending the actlon of the reservolr of power, to the the arm



 chargee. We claim the application of the selif.cocking mechanism
Hertutn described, to all chambered cyllinders in which metallic car-
herge 39,826. - Flour Bolt.-Richard Mohler and John Becker, Lancaster Co., Pa. :

 39,827.-Churn Power.-J. D. Parrot, Morristown, N. J. :


[The object of this invention is to combineitwo or more springs with a series of pinions and cog-wheels, and with a crankshaft, in such a manner that elther one or more'springsican be wound up and made o impart a rotary motion to sald crank shaft, and that by the action of the crank on said shaft, the dasher of a churn or any other small required to accomplish a certain amount of work.] 39,828.-Process of Recovering Wool from Mixed Fab-
rics.-J. G. Perzel, New York City. Ante-dated April rics.-J. G. Perzel, New York City. Ante-dated April Ione or with the ald of diluted of zulphe or analogous chlorides, elther
ald, in a manner as de-
cribed and for theipurposeset forth. 39,829.-Rotary Engine.-James Platt, New York City. I claim, frst, The shell, $I$, provided
 atacher provided with ihe abutment, D, and communiatees with, the
whichistion and eduction passages, e $f$, of tube, $B$, substantally as and for the purpose set forth.
Second, 10 cith the stationary tube, $\mathbf{B , h}$, head, $\mathbf{C}$, and
otary shall, I the stationary shell, $\mathbf{A}$, the latter encompassing the shell, II, and head, C a and arranged as shown.
Third. Theoperating or turning of the valves, $J J^{\prime}$, by means of the
 [This invention relates to a new and improved arrangement of parts hereby it is belleved that the chief difficulty hitherto attending the peration of rotary engines, is obvated; namely, the unequal ex. pansion of the parts, which produces leakage and consequent wear
and tear, and a general derangement of the mechanism, which is and tear, and a general de
soon rendered inefllelent.]

39,830.-Bearing for Vertical Shafting.-James Platt, Uk ca, N. Y. Ante-dated Oct. 25, 1862 :
I claim the friction rolers, F, fitted in an annular revolying frame, A, and the collar, $G$, placed on the Bhaft, B, all arranged as and for A, and the collar, G, placed o
the purpose herein set forth.
llers lavention consists in the employment of a series of conical rilers placed in an annular frame, which is itted loosely in an adjustable box placed in or on the framing designed to support the ith, in combination with a collar placed on the shat and provided Wha beveled under surface, which rests or bears on the conical the shaft and admit of its being rotated with but a comparatively small amount of friction.]
39,831.-Water Wheel.-James Platt, Utica, N. Y. Antedated April 2, 1863 :
 Ination with the case, E, and the curved tnclined plane, $K$, all ar-
ranged for jant operation, and for the purpose hereln set forth.
 the purpese herela specife
[This invention relates to an improved horizontal water wheel of位 class in which silding buckets are employed, and consists in con. ruchng and arranglag the buckets ho such a manner thal thes win c, entering the case of the wheel, and prevent the. latter being injured thereby. $]$
39,832.-Water Wheel.-James Platt, Utica, N. Y. Anteclaim, first, The curved sliding buckets, $\mathbf{E} \mathbf{E}$, connected to shafts, and for the epurpose specifile of the cam, J, and abutment, $G$, when
Second, The coabluation olf the
used in connectlon with the silding or yleding buckets, E E, arranged as shown and described. [This invention relates to an improved horizontal water wheel of he class which are fitted in a case provided with an abutment and which are provided with adjustable buckets. The invention consist for pecullar arrangement of the buckets, and the means ent and be brought in proper position to be actedu pon by the water as the latter passes through the case.]
39,833.-Water Whecl.-James Platt,'Utica, N., Y. Antedated Oct. 25, 1862
I claim, first, The employment or nee of the drop buckets, H, at water passage, d, In the case, A, provided with the abutment, $B$, sub-
stantialy as and for the purpose specified
Second The mon shown and described of operating the drop buckete, $H$, as herein the shais, $\begin{aligned} & \text { and the stanary cam, } J \text {, attached to the bot tom, } c \text {, of the case, } A,\end{aligned}$ and the stationary cam, $J$, a thached to the bot tom, $c$ of the case, $A$,
and [This inventi
[This invention relates'to an improvement in that class of horizon. ranged to present the are prons water and receive its impacting force, and then move or adjust them wheel.]

39,834.-Water Wheel.- James Platt, Utica, N. Y. Anto-
,834.-Water Wheel-
 [The ot;ject of this irvention is to obtaina water-wheel which will receive and retain the water solong as it acts most effciently upon it, and discharge the water at the moment when it ceases thus to act, the wheel, a result which detracts greatly from :the effliency of the wheel and is the principal source of loss in power in horizontal water wheels, a class of wheels to which this invention more particularly refers.]
39,835.-Coal Breaking Roll.-William R.' Reece, Tre mont, Pa. Ante-dated Jan. 16,1863 has recesses for the reception of the shanks of the teeth. $G$, and re.
 the dijacent section tbe whole being arranged substantially as and for tha porpose heretn set forth
39,836.-Fire Place.-David A. Ross, Cincinnati, Ohio : I claim the rotating or morable back, B, in combination with the
aaj jaster, E , when constructed and operating substantially
as de scribed.
39,837.-Cultivator.-G. H. Schanck, Libertyville, Ill. ers meat, ex, thereon, in rolation to the the foot toard, $f$, bandie, m, and

39,838.-Truck for pulling Stone.-Gilbert L. L. Sheldon,
Marlboro, Mass.
 $\mathbf{a}^{\prime}$, substantialy in the manner and horthe purposes desc ribed. s , claim the use of the chain, $\mathbf{B}$, in comblation
 39,839.-Last Holder- - (aeorge H. Smith, Lowell, Mass.:

 ranged substantialiy as show
proper position as set forth.
[This invention relates to a new and improved device for holding lasts designed for the use of shoemakers. The object of the invention $i^{8}$ to obtain a derice for the purpose specified which will, by a simple adjustment, hold the last securely in position, and at the same time admit of the latter being inclined at any desired angle and turned or revolved as required while being thus inclined.]
39,840.-Army Stretgher.-Jacob J. Smith, Philadelphia,
I claim the employment of the knee jointed bars or plates, C C, so


 38,841.-Hollow Auger.-George N. Stearns, Syracuse, N. Y. Ante-dated Jan. 16, 1863
tially as described, and combinlng therewith thead justablethimble, $\mathbf{C}$.

 lateral adjustmenta
purposes described.
39,842.-Pump, - Nathan Stedman, Aurora, Ind.:
It claim the ini:ixp piston, B, provided, with the hollow. valve, H , and double popp pe valle,
pose herein set forth.
[This invention consists in the employment or use of a hollow pis ton provided with a valve of novel construction and a tubular piston relation with the pump colinder, and allarranged so as to perate in the most efflicient manner.]
39,843.--Bridle Bits.-C. E. . Stockder, West Meriden, Conn.:
I claim as a new article of manufacture a bit ring, $A$, provided with
a tongue, a, and eye, $b$, as and forthe purpose apecified.
[Thisinvention consists in thearrangement of an eye and tongue In the bit ring in such a manner that the end of the rein can be fast-
oned directly in the bit ring itself, thus avoiding the necessity of doubling up the strap and without the application of an extra buckle and maringale stop, whereby the manufacture of the rein is rendered much cheaper than that of ordinary reins, and furthermore by the use of my bit rings the reins are made of a uniform thickness throughout, and theret
39,844.-Gas Check for Breech-loading Fire-arms.- John
C. Symmes, U. S. Ordnance. Ante-dated Dec. 25, 1862 :
I ciaim, first, Making the gas.choke of the form and using it in the
mpnner substantiall se forth.
Second, Ma king the gas-choze largely fire.proof, substantially as set forth.
39,845.-Stop Mo ion for Railway Drawing Heads.-Henry Tabor, Hopkinton, R. I. Ante-dated Aug! 23,1863 :I claim, first, The emplopment in railway drawing heads of the
plate, 0 , or its equivalent, standing between the roils and so con-
nected and arranged that a dimin ution in the size of the roving will plate, , or its equivalent, standing between the roils and so con-
nected and aranged that a dininution in the size of the roving will
allow the rolls tobite upon and movethe same so as to stop the ma-
chine, subatantially Es herein set forthe Second, Connecling both the bugle, $P$, and the plate, $O$, to the same
iberaning apparatu, , and its connections in the manner and for
the purpose hereln set forth. The purpose herern se trorth in stop motions for a railway drawing
Third The arangement in
head, of the lever A and spring, K, othat the latter shall perlorm
the double function of holding the lever, L, and turning the shaft, $J$,
as herein set forth. 39,840.-Chimney Cap.--James Tomlinson, Racine, Wis.:
I claim the scooped shaped wings or funnels, $C$, in connection with the conical plates, B D, and tubes, A F, all arranged substantially ai
and for the purpose herein set forth.
[Thisinvention consists in providing the smoke jack or ventilator Nith a series of soop-shaped wings, arranged around the upper en Whereby allair that entersthe amoke. jack or ventilator laterally has a spiral motion comfmunicated to it, which increases the draught and enders the device vers efflecent and perfect in its\%operation. 1
39,847.--Last Machine.-J. W. Town, South Woodbury
 ferent size can be turned and the proportion maintained perfectly.
Also the arrangement of guides, a of difer ent size on the periphery
a wheel, A, substantielly as and br the pur pose set forth.
wheel of a last machine, arranging the same in such a manner that produced. $]$
30,848-Composition for Polishing Brass.-William H. Trissler, Cfityelatd, Ohio:
clam the, combination of burnt clay, tartaric acid and common 39,849.-Artizan's Stage.—Windsor B. Wait, South Reading, Mass.:
arranged as described, but A, as not'onlymade with the platforam, a arranged as described, but with the auxiliary platiform ro seat, c,
placed above the platiorm, a, and hnnged to the body of the frame so
as to be capable of being operated as peceifled. as to be capable of being operated as specified.
I alos clam the stiex, A, am made with the end boxes or receplacles,
d d. arranged resiativety to tis arms and hinged seat as specified. And in combination with the stage. A, I I laim the windlas ene, B B,
their operative mechanisms and tackles constructed to operate sub. stantially as described.
And in combination with the stage, its windlasses and tackles, I
claim an adjustable balancing mechanism, arranged and constructed 80 as to operate substantially as described.
And in combination with the stage. its wind asses, their operative mechanisms and tackles, I claim the adjustable bars, $E$ E , provided
with wheels and handles arranged with respect to them as specified 39,850.-Double-barrelled Revolving Fire-arm.-H. D.

Ward, Pittsfield, Mass.
I claim, frst, So applying two barrels in combination with one ro-
it 4 , 1 cylinder thistiva singe circle of chambers as to provide either for :et discharge if two of the said chambers, one through each
barrel, without rotating the cylinder between the discharges or for
the discharge of the several chambers successively through one of the discharge of the several chambers succeissive
the sadd barrels, substantiall as hereln described.
Second, Combining the two hammers with each ond with the dog. h, for rotating the cylinder by meansof the sleeve, f, orits equivalent, having a projection, pp the arm, I, having a projection, q. the
spring, r, and the pin or propeivon, St ite whole arranged to operate
snbstantially as aud for 39,851.-Coffee Boiler.-Nathaniel Watermann, Boston Mass.:
claim the
foraminous improved coffee decoction apparatus as made With the
fív or tit equivalent, arranged and combined with the hot water receiver, D, the coffee holder, $F$, or the same and its
sprtng expander, substantially as specifed. sprtag expander, susstandiali as speciced
I also dam the arrangeant and combination of the helical spring,
the sliding latch or latches, and the catch or catches the reof, together and with the expander and watervessel, the same being substa
tially as specified.
39,852.-Steam Purep.-William Watts, Newark, N. J.:
Yclaim, first, The combination of the projection or bearing, $P$, with
the wedge, W, bolt, B, and cap, $C$, substantilly in the manuer and for the pirpose sdescribed.
Second, claim the combination of the said wedge, $W$, with the
valve, $V$, substantially in the manner and for the purposes described, 39,853.-Closing Fruit Cans.-William Webster, Middletown, Ohio:
I claim the spring, A, formed of tempered wire in the manner
described, and applied by onedirect operation, substantially as and
for the purpose set forth. traverse bar or its equivalent, applied and a also claim the combination of the traverse bar, $C$, and spring, A
as andfor thepurpo
39,854.-Crutch.-John D. W. Wemple, Albany, N. Y.:
Iclaim, frst, The spiral springs, H H, fited within the tubes, $G$. and secured at their lower ends to the folower ends of said tubbes in
combination with the tubes, $F$, in whlch the tubes, $G$, are inted
 Bprings, H, are connected by screws, o, whioh pass through the
tubes, $\mathrm{F}, \mathrm{and}$ through longitudinal slots, min in the tubes, $G$, substan-
tially as and forthe puryiowe herein set forth.
 as hereln described.
Third, The rint or spir, D, inserted in the lower end of the
crutch when used in r:anolnatin with the sliding orad justable tube E, provided wilh a catch or fastening, substantially as and for the
purpose specified. This inv folded and rendered compact for convenient 'stowing away when not in use, as for instance, when the user or owner is seated in a vehicle. Second, to provide the crutch with a point or spurat its lower end, soarranged with certain parts, that the point or spur may e exposed when required for use, asfor instance, in traveling over stance, be covered or enclosed when not required for use, as for would injure carpets or a good fiooring. Third, in applying springs to the crutch in auch a manner that the full benefit of their elasticity will be will be obtained at an poin of springs
used.]
39,855.-Sugar Evaporator.-Abraham Whitenack, North I claim the comb.
 in the manner and for the purposes herein specined, In this invention a movable partion or.scraper is employed, havequalities in the bottom of the pan, so that the entireibody of juice may be
scraper.]
39,856.-Burner for Coal Oil Lamp.-Anna C. Wilhelm, Philadelphia, Pa. Ante-dated May 15, 1863 :
claim surrounding the wick-tube, B, with a tapering jacket, A, Itting closely around the upper orifice of the said tabe, substantially
in tre maner described and set forth, for the purposes specifid. I also claim in combination with the said jackect A, the two pro-
jecting guards, a2a2, the same being constructed and arranged sub-
stantially as set forth, for the purposes specified. 39,857,-Elerating or Scaling Ladder.-Solomon D. Wo
lison Pittsield, Mass. Ante-dated Dec. 25, 1862: claim the manner of attaching the said ladder to the base board
 board, A, and fift form, I, in the manner descrithed, so as to cause
thate endof all the to gies to raise and fall on a line drawu through
the points so attached. Second, The arrangement and combination of the wheel, $L$, with
Shelower ond the bottom tooggla and the base board, $A$, as shown and described, to facilitate the rise and fall of the suggle,
Third $T$ The arrangement of the lever, O, with the toltom togle, the
wheel, L ; and the asle, $Q$, in the manner substantially as described and shown.
Fourth, The combination of the screws with the upper trgigle joint
and platform, $I$, in the manner shown and described, to enate a man
 39,858.-Apparatur for throwing Projectiles.-Solomon 1863 : I claim the combination of a torpedo, or similar proiectile, with
the elotugaing projector, for the purpose of projecting the same as de301859. - Betting Evaporating Kettles.-William S. Worth-
ington, Newtown, N. Y.:

each other and within the arch of a block or train of evaporating 39,860.-Horoscopes.-Michael Eble (assignor to Ru dolph Engler, Ellwangen, Kingdom of Wurtcmburg: I claim the arrangemen tof the oscllating, $L$-shaped index, $A$, in
combin ation with the adjustable scale board, B, oonstrueted and oper ating sub
scribed.
[This invention consists in the arrangement of an L-shapedi index provided with plumb- line and with a diopter and bracket to jnterterp in such a manner that br the combined action of the scales on th scale board and of the Lebaped index, the position of which is gov erned by the postion of the sun, the time of the dey con be deter miued at any moment when the sun shines.]
39,861.-Anti-typhus Remedy.-J. P. Fortig (assignor to himself and J. C. Salzgeber), St. Louis, Mo.:
pounded of the ingredientsmentioned, in the quantities and pounded of the ingredientsmentioned, in the quantuties and propor-
tions na med, as a new article of manufacture and trade for the pur-
poses set forch. 39,862.-Apparatus for cutting Cloth.-Barnett Hansell, John MCCunn \& Samuel McCambridge, Philadelphia Pa.: We ciaim, first, The construction of the cylinder, B, with one o morecutter slots, ${ }^{\prime \prime}$, substantially as described, for the purpose of set forth. Combining and arranging the extension bar or bars, $J^{\prime}$

 Fourth, The comblnation of the knives, $Q Q$, with thecylinder, $B$ When arranged and operatir:g substantiaily as described.
Fifth, The combination and arrang ement of the reciprocating rol
ler, U , with the cylinder, B , substantially as and for the purpose
 39,863.-Sofa Bedstead.-T. J. Magee (easignor to him self and James H. Hoole ), Cincinnati, OHio

 39,864.-Clothes-wringer.-Caleb H. Packard, North

Bridgewater, Mass., assignor to John J. Haley, Cur I caim in combination with a pair of squeezing roils, one or both
of which are hung in yielding bearings and both driven by cage
gears, the intermediategears E and $F$, forthe purnose of contigieg gears, the intermediate gears, $E$ and $F$, for the purpoose of continuing proach each other, substantially as described.
39,865.-Water-proof Boots and Shoee.-Edwin L. Simp son, Bridgeport, Conn., absignotity hinself and Jared
Wilson Post, New Haven, Cons claim as a ne article of manufacture boots and shoes, when the
$m$ eare made from thew abr-proof material, substantially as in the mameare made from th
maner herein set forth.
39,866.-Harvester Cutter Sharpener,-John K. Staman (assignor to himsel
field), Mifflin, Ohio
I claim the concave, anute-angled, reveraible bars, $A$ and $B$, ar
ranged and operating as and for the purpose set forth. 39,867.-Lithographic Press.-John Taggart (assignor to I claj $m$ the improved itto 0. Thayer), Roxbury, Mass.: stationary bed, Broved butith wherithir press as made not only with the
carriage, E, and provided with mechanism subported by a movab ie carriage, E, and provided with mechanism substantially as describe
(or it eequivalent, for operating the scraper or depressing it upon
and relieving it from the tympan and stone, the who being as and to and relieving it from the tympan and stone, the whope being as and to
operate as apecifed.
Ialso claim the said mechanism or combination for I also clasim the said mechanism or combination for operating the
scraper durig the reciprocating rectilinear movements of its car
rage, the same consisting not onny of the channels. is and their riage, the same consisting not only of the channels, is and their
gWichas, g, and gates, t, constructed and arranged substantial as
described, but of the arms, the depressors, h, and the elevating springs, $m$, ar the combination of the spring latch, $f^{\prime}$, applied to the carriege, E, and the movable or spring dog. d' (applied op the tympan
shatt, with the tympan shitt the geraper and its carriage, the whole
being as and for the purpose set forth. 39,868.-Machine for stretching and folding Mosquito
Netting.-Jacob A. VanRiper \& Lewis Van Riper, de ceased (Jacob A. Van Riper administrator), Spring ceased (Jacob
 Second, The combination of the oblique rollers, B, platform, $\mathbf{P}$
ond plates, $K$, and rollers,
lhe purpose speoifed.
[This invention consists in the employment or use of a series of blique rollers arranged in pairs, and used in connection with feeders and a reciprocating bed; all being so arranged that the work of stretching and folding the netting or other material may be done in an expeditious and perfect manner.]
39,869.-Cartridge Case for Revolving Fire-arms.-John H. Vickers (assignor to
Pond), Worcester, Mass.:
 the circumferentially projecting flanges of the cartridgees frome the
 39,870.--Lasting Machine.--Truman Wolcott, Stowe, Mans.
assignor to himself and George T. Wolcott, Marlboro Mass.:

## 

 , provided with eccentric slots, $G$ in which pins or friction roilerin the slides, $F$, are fitted; substantaily as and for the purpose set Second, The hooks, g g, arranged as shown to operate in connec
tion with the crimping bars as and for the purpose set forth. tion with'the crimping bars as and tor the purpose sot forth,
Third, The elatice plates, 1 i, in connection with the hooks, $h$, to
operato in connection with the crimping bars as and for the purpose operato in connection with the crimping barsas and for the purpose
speciad.
Fourth, The loaded treadle, B, with rod, D , attached, in combinaHourth, The loaded treadle, B, with rod, $D$, attached, in combina-
tion with the criming barg, all arrang dio operate substankially a
nd for the purpose specified. and for
[This invention relates to a new and improved mechios for adjusting uppers on lasts, whereby.
ner and very expeditiously.]

## RE-ISSUES.

1,533:-Side Lights for Bhips.- Finoch Hiden, New Yora I claim the arrangement of acrew a, Fi tapped into the main frame,


ngle to the main frame. thus freely admitting of ventilation. at an
It turter claim the arrangement of oether ductile metalic
ing soldered on or otherwise joined to the main brass frame of the ring soldered on or otherwise joined to the main brass frame of the
light as that it can be turned
ligund theouter edge of the opening in
main frel, securing any suita be material completely making the
merein set forth.
[This invention admits of the light being adjusted in a water-tight pen state for ventilation.]
1,534.-Tackle Block.-Isaac E. Palmer, Montville, Conn.
I claim so constructing a tackle block and pulley, that the rope or
fall when desired may be clamped between a fixed portion of the
block and a portion of the pulley, substantially as here block and a portion of the pulley substantially as herein described,
by simply leadingitin a direction oblique to the plane of revolution
of the pulley witiout it ing, or the use of dogs, movable stops or any
1;035. - Ventilated Hats.-William F. Warburton, Phila-
delphia, Pa. Patented Dec. 11, 1860: delphia, Pa. Patented Dec. 11, 1860
I claim a flexible band or strip of metal or other equivalent ma
cerial, securred to the inside of a hat, at such a distance from the same and between such points that it wit will accommodistance from the same
ane telf the the thers torehead without interfering with the passage of air between
weareris tand
he said band a nd the bat an set forth.

- sund baid and he bal as .-. ......

Note.-The large number of patents issued weeklv indicate the state of progress in the mechanicarts better than any thing else. Out of the number issued last week and recorded above, Thirty-rour-
more than one-third of the entire number-were obtained through the more than oue-third of the entire nu
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 or olicit patentsin the United States and all foreign countries, on the most reasonable terms. They ments of business pertaining to pat ents, such as Extensions, Appeal before the United Siates Court,
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## 4

R. S. G., of Maine.-The difference between stenography and phonography is this: the one means short-writing, the other sound-writing-both being of Greek derivation. Short-hand was Isaac Pitman, of Bath, England, not thirtyyearsago. His brother, Beac Pitman, of Bath, England, not Chirtyyearsago. His brother, phonetio works in this country, and has donemuch for the digsemi. phonetic works in inis country, and hasdon is cher for nation of the art in America. Stenography is composed of arbirrary signs; phonography of conventional characters, variable by rule, and completely supplanting our alphabel. The Hebrew and Chiose are examples of phonenc languages, ofenest seenlu this coun try. Next to telegraphy, phonezraphy is ine monderninven torty words in a minute; a gin long-hand can only record forty words in a minute; a good phonographer can report two hun-dred-iust five times as many. It is the only way in which rapid discourses and fuent orations can be recorded verbatim. Itis by his wond gress. Pitman's characters are not so even and beaniful to look a as Morse's dot-ine space reading, yet they arerequally wonderful as aninvention, and as indispensable in their uinity. Phonetic printing, or printing by sound, does not seem to take in America though it has been aidopted in the common schoois of Massach
D. McIn., of C. W.-You will find no difficulty in melting metal in a cupola 5 feet in hight and 15 inches internal diameter, if you employ sumcient blast. A fan will run with less noise but the effect will be no greater. Vulcanite grindstones, composed of emery and vulcanized india-rubber, are manufactured here, but no artilicial sand-stones, so far as we know.
A. S., of N. Y.-Insert an advertisement in the Scien tific American, and you will obtain any lidind of a latheyou re uire. We cannot advertise your wants gratuitously
G. E. P., of Pa .-We are not aware of small spinning
enples containing about 8 spindles, adapted for family use, being manufacturedanywhere. We belleve that jennles of such a sila ould meet with an ert Wenivaste, among our farmers. who coul operate them $\mathbf{w}$ . R., of N. Y.-A complete business directory for the State of New York is published by Messrs. Adams Sampson \& Co Boston, Mass
. N. B., of Wis.-Cotton thread is numbered according B.
. B., of Maine.-You will find the mode of making vege table parchment described on page 186, current volume of the Scientific American.
H. C. A., of Ohio.-There is no special work published on caloric engines. You will find more information respecting such ngines in former volumes of the Scievtific A mericanithan in all other published works extant.
. J. H. H., of Pa.-" Holtzapffel's Mechanical_Manipulation s $^{\prime \prime}$ have not been republished in America.
. W. J., of Mo.-To bronze the barrel' of your 'fowling piece, apply the tincture of iodine diluted with an equal quantity of soft water, allow it to dry, then brush it and rub with a little beeswax and turpentine. Another method of bronzing consists in applying a composition of 1 ounce of the muriate of iron, 1 ounce of nitric acid, and 1 ounce of the sulphate of copper dissolved in 3 ounces of water. It is put on with a clean rag, and the barrel alwh to dien a second applicationis madeinthesame ma little m when the barrel again becomes dry it is wax' and turpentine. some acid only. The'first mode described above-using the iodine, will be most convenient for your purpose,

## Money Received

At the Scientifio American Office, on acoount of Patent Office business, from Wednesday, Sept. 9, to Wednesday, Sept. 16, 1863 :-
L. M., of N, Y., \$16; D. D., of N. Y., \$16; J. G. G., of N. Y., \$16; P. B., of Im., $\$ 20$; P. J., of France, $\$ 20$; M. F., of N. Y., $\$ 16$; M. L. S., of N. J., $\$ 10$; G. \& H., of Mass., $\$ 20$; G. F.J., of Iowa, $\$ 20$; B. R. \& V., of Ohio, $\$ 20$; R. H. R, of N.Y., $\$ 16$; L. \&S. B. H., of Mass., \$20; E. C. W., of N. Y., \$128; J. W. S., of Conn., \$20; H. A A., of N. Y., \$16; L. O. B., of Ind., \$55; J. C., of Ind.,'\$45; J. H.
 $\$ 63$; W. D., of N. Y., \$41; J. M., of N. Y, \$20; R. L., of N.Y., \$25; C. L., of N. Y. \$25; J. E., of N. Y., \$25; 'R. W. C., of N. Y., \$25; 'H. J. Van T., of N. Y., $\$ 25$; F. J., of N. Y.,. $\$ 25 ;$.W. D.. of N. Y.. $\$ 25$;
E. J. K., of Mich., $\$ 20$; S. R., of N. Y., $\$ 16 ;$ H. \& G., of III., $\$ 25$; E. J. K., of Mich., $\$ 20 ;$ S. R., of N. Y., $\$ 16 ;$ H. \& G., of In., $\$ 25$;
T. G. E., of R. I., $\$ 100 ;$ W. G., of N. Y., $\$ 16 ;$ A. T, of N. Y., $\$ 16$; T. G. E., of R. I., $\$ 100 ;$ W. G, of N. Y., $\$ 16 ;$ A. T., of N. Y.. $\$ 16$;
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R OTARY BOILERS.-WE HAVE ON HAND AND
 necessary for operation of them. They were manufactured by J. A.
Brooss Co, of Frankfort. Pa, and are in perfec order. Address
PEASSNEE \& CARPENTER, Ancram Paper Mills, Ancram, A. Y.
$133^{*}$

TRON PLANERS, ENGINE LATHES, DRILLS AND


