## REGENT AMERICAN PATENTS

The following are some of the most important imrovements for which Letters Patent were issued from he United States Patent Office last week. The claims may be found in the official list.
Canal Propeller.-The object of this invention is to obtain a propeller adapted for canal navigation, which, besides possessing other advantages, shall be free from the principal objection to the screw propellers heretofore employed, namely, that of requiring the after-part of the boat to be of such lean form as to seriously impair its carrying capaci$t_{y}$; and to this end it consistsin the construction of a propeller with its blades arranged tangentially to circles concentric with a propeller shaft placed parallel with the length of the vessel and in its center, such blades being attached to a hub or disk in such a manner as to prevent the water from entering the propeller from the interior, that is to say, except by passing in an inward direction from between the outer edges of the blades, and to compel the discharge at the inner edges of the blades; it also consistsin the combination with such tangentially arranged series of blades, of a conical surface, arranged concentrically within them, for the purpose of directing the water which is discharged from the center of the wheel, directly astern of the vessel. J. B. Root, of Brooklyn, N. Y., is the inventor of this improvement.

Ventilating Damper.-This invention relates to an improvementin that class of dampers for stoves, heaters, \&c., which have ventilators combined with them in such a manner as to operate in conjunction with the damper to regulate the fire and at the same time afford a perfect means for ventilation. The object of the invention is to obtain a device for the purpose specitied, which may be very economically constructed and operate in the most efficient manner. To this end the invention consists 'in having both the damper and regulator constructed on the slideregister principle, that is to say, with a perforated or slotted part sliding or working over a stationary perforated or slotted part. N. A. Boynton, of No. 60 Canal street, New York city, is the inventor of this damper.
Sewing Machine.-This invention consists in certain novel devices for extending the loops of the upper or needle thread on the under iside or back of the cloth or other material to be sewed and carrying the under or locking thread through them. Also in a novel mode of combining the needle-operating lever with the said devices for extending the loops of the eedle thread, and carrying the locking thread through them, whereby the operation of the said device is produced by the same crank or its equivalent, by which the movement of the needle-operating lever is produced. Also in a novel construction and arrangement of the feeding apparatus for feeding the cloth or other material in all directions, and in a novel mode of applying the needle in combination with such feeding apparatus to keep the planes of revolution of the feed wheel always at the same distance from the line of motion of the needle. F. W. Grote, corner Thirty-sisth street and Tenth avenue, New York city, is the inventor of this sewing machine.

Apparatus for Filtering Water.-The object of this invention is to obtain an apparatus for purifying or filtering water, which will operate continuously and be self-cleaning, and adaptedforoperation on a large scale for manufacturing purposes, such as the manufacture of paper and other articles in which a large quantity of pure water is required. To this end the invention consists, substantially, in the employment of an endless apron of felt or other fibrous material passing around a wheel, the periphery of which is formed of parallel rods placed a suitable distance apart, said wheel being placed in a box or reservoir of water, and the apron driven by a water wheel and cleaned by a revolving brush, the water passing through the apron into the wheel and discharged from the ends of the latter. D. N. Denman, of Milburn, N. J., is the inventor of this improvement.

Mode of controlling the launching of Vessels.-This irvention has been more especially designed with a view to controlling the launching of iron war-vessels which, by reason of their great weight, require to have the blocks supporting their permanent launch-
ing ways so close together that the men who remove the blocks from under the keel preparatory to the launch, cannot escape at the sides of the ways, but have to go all the way to the lower end before they can get out. It is also applicable to controlling the launching of other vessels. It consists in fitting the lower or permanent ways just below their faces with a transversely-arranged horizontal shaft provided with catches arranged to enter notches or mortises in the upper or sliding ways, for the purpose of holding the latter back while the blocks are being removed from under the vessel, and after they have been removed, the said shaft being operated by a lever for the purpose of withdrawing the said catches when all is ready for launching. T. F. Rowland, of Brooklyn (Greenpoint), N.Y., is the inventor of this device.
Improvement in Watches.-The object of this invention is to make watches and chronometers keep time with great exactness. The invention consists in the employment in a watch, chronometer or other timekeeper, as a substitute for the fixed stud commonly used for the support of the balance spring, of an elas. tic support, capable of vibrating in such a direction as to permit the spring, at each vibration of the balance, to have a movement lengthwise, or in such manner that its spires have a rotary motion. This support, is of spiral or convolute form arranged so that its spires, and those of the spring will open and close alternately at each vibration of the balance which will allow the spring to have the movement above mentioned at each vibration of the balance, by which means not only may the effects of expansion and contraction in length by heat and cold be counteracted, and the escapement be kept in beat by keeping the balance in a condition of equilibrium, and, if a curb be used, keeping the effective length from the curb-pins uniform, but its alternate vibration tends to make the opening and closing vibrations of the spring equal in time or isochronous; and, what is more important, the impulse which the spring has lengthwise at the outer end, where it has been formerly held by the fiy ed stud, increases the range of motion in the balance and consequently quickens it to make up time. By thus supporting the balance spring much of the variation in a watch may be prevented without any further attempt at compensation and a lighter mainspring may be used, and hence the wear of the teeth of the wheels is very greatly reduced. H. B. James, of Trenton, N. J., is the inventor of this improvement.

Propulsion of Vessels.-This invention consists in the arrangement of one or more screw propellers, each within a stationary cylindrical casing, in combination with peculiarly-constructed chambers in front and rear, whereby a column of water, of an area equal to that of the greatest submerged section of the vessel, is discharged at the stern of the vessel by the action of the propeller or propellers, and so any tendency to the formation of a vacuum astern of the vessel, and the consequent retardation of its progress is prevented. B. T. Babbitt, of Nos. 70 and 72 Washington street, New York city, is the inventor of this improvement.
Device for upsetting Tire.-This invention consists in giving to the keys which hold the tire down upon the anvil, beveled edges so that s slight motion of the tire, in a direction transversely to said keys, has a tendency to turn them edgeways, and to bring their edges down upon the tire with increased tightness, and that, by these means, a slipping of the tire under the keys during the operation of upsetting, is entirely prevented; it consists, also, in the employment of a tapering convex wedge or guide to go under the crook made in the tire for the purpose of assisting the operator in obtaining a uniform thickness in that part of the iron that has been or is to be upset ; it consists, further, in the employment of one or more false anvils in connection with the regular anvil of the upsetting machine, in such a manner that the surface of the said anvil can conveniently be adapted to the tire or hoops of different diameters. M. P. Larry, of Windham, Maine, is the inventor of this improvement. Address Messrs. A. and A. J Mosher, Portland, Maine, for further information.

The ancient English " yard" was a measure of length, based upon the length of the arm of King Henry I.


ISSUED FROM THE UNITED STATES PATENT OFFICB for the weer ending may $5,1863$.
*** Pamphlets containing the Patent Laws and full particulars of the mode of applying for Letters Patent, specifying size of model required, and much other information useful to inventors, may be had gratis by addressing mUNN \& Co., Publishers of the Scientific American New York.
38,366.-Breech-loading Fire-arm.-Louis Albright, Otta-



 Third, The hinged plug, ,', having the sliding block, N, adapted to
be reiracted to atiow he passage ot the said plug over a metallic


 38,347 ,-Device for Stoppering Bottles.-Antoine Andre
 pieee,, alir arr
pose described.
(This invention consists in the employment of a screw valve fltting into a seat that is secured to the neck of a bottle in combination with afunnel-shaped mouth.piece, in such a manner that, by the aid of said valve, the communication between the interior of the bottle and mouth-piece can be ellectually stopped, and that, on opening the valve, the contents of the bottle can conveniently be poured out, or, by the aid of the funnel-shaped mouth-piece, fresh liquid can be in rroduced into the bottle with ease and convenience.
38,368.-Marine Propeller.-Benj. T. Babbitt, New York
 purpose set forth.
38,369-Apparatus for curing Caoutchouc.-W. R. Bag
nell, Chelsea, Mass., assignor to the Union Elastic
Goods Company: Goods Company
I claim constructing the curing vat with a narow area at the ievel
of he onentaine dillid dnd with a movable partition, operating sub.
stantially as specified. I claim, also, combining a vitreous or other suitable rod or roll
with the novabe partition, and allo
with the vata with the inovable partition, and allso combining such
with the vat at its upper edges, substantially as shown.
38,370.-Ventilating Damper.-N.A. Boynton, New York City :
I claim the employment of the double-slotted flanged shell, C , in
Combination with the slot ted projection $B$, and sintued shell, $A$, the combination with the silot ted projection. B, and sioted shell, A, the
partsineing construteted and operiting together, substantially in the
manner herenn shown and described.
38,371.-Pipe Drainer.-Abram Brigham, Lawrence, Mass.
I claim the cover, of the box, $A$, made hollow in the form of a cir
cula
ounce

 tween them, for the durpose herein set torth.
38,372.-Wind ow-sash Supporter.-F. P. Catlin, Hudson,
Ilais. : irst, The combination of the arm or iever, K , and the
weight, $W$, inserted in the casing, as described, with the rubber or weight W, in ser ted in the casing, as described, with the rer ruber or
othere elastic substance, $R$, inserted either in the sash or in the lev
er. $K$. er. K . K . I also claim the lever, K , and weight, W, inserted in the
sash, with the rubber or other elastic substance attached to either
 38,373.-Boot and Shoe.-D. N. B. Coffin, Jr., of Woburn, Mass.


 the other, and vice versa, so that the unloping of the string from one
button lousens the orp upon the next, and unlooping one or more of
the loops from their respective butcons, the fastening of the boot or the loops from their respective butcons, the rastening of the boot or
shoe is loosened while the ends of the string remain fast, and such
loops of the string may be looped on again, so refastening the boot or loops of the string may be looped on aga
shoe, substantially as herein set torth.
38,374.- Tax Calculator.-C. D. Crane, Fort Wayne, Ind.: culation of taxes in the manner described in the specification, viz.
first first, by the printing of the taxes ou the multiples of $\$ 100$ at each per
cent on a separate cemt on a separate slip, so that the several slips may be arranged pinto
auy required series of per cents; ; and second, the arranging of the
taxeson the iniermediate amounts between one and one hundred dol lares on the iniermediate amounts between one and one hundred dol-
lars, including the poilt tax on a separte sheet cut with apprepriate
apertures, so that they may, when necessary, be added to the amounts apertures, so
on the slips.
38,375.-Machine-shirred Ruffles._C. O. Crosby, New Haven, Conn.:
I claim the mechanically-shirred ruffe described, as in new artiele or without a band or binding attached thereto, substiantially as herein 38,376.-Washing Machine.-G. A. Dabney, of San Jose, Cal.
I claim the combination of the oscillating concave and rubber,
when used in connection with the oblicue barr, When used in connection with the oblique bars, t f, connected with
the rubber by the cords, $g^{\prime} g^{\prime}$, and the rubber arranged as shown to
atmit of havingits pressure graduated at the will of the operator, as admito of haring
herein set forth.
restes to an improved clothes-washing machine of
neotion with a rubber. The object of the invention is to obtain a
more efflent machine of the kind than any bitherto devised, by ar
more efficient machine of the kind than any hitherto devised, by ar
ranging the rubber in such a manner that it may be made to operate
automatically by the movement of the concave and at the same time
be capable of being adjusted at the will of the operator in order to egulate the pressure on the clothes, as may be required.l
regulate the pressure on the clothes, ae may be required.]
38,377. - Skirt Wire.-T. D. Day, Brooklyn, N. Y.
38,378.-Liquid Filter.-D. N. Denman, Millbura, N. J.
I claim, irst, A derice for filtering water and other liquids com.
1osed of a wheel, Filt fted in a reservir, A, and provided with an
endless apron or roll, G, of fell or other fibrous material, when all are
 discharged from the ends of the iatter, substantially as eet forth.
Second, In combination with the reservorir, A, wheel., F. and apron
or roll, , the rovary brush cylinder, $I$, when used as and for the pur-
pose set orth.
pose set forth.
Third, The pivoted bar, $\mathbf{J}^{\prime}$, with roller, $K$, attached, in combination
With the apon or roll, $G$, wheel, F, and reservoir, A.
Fourth The
Fourth, The driting wheel, D, and wenstock, B, when combined
and arranged with the reservir, A, whel, F. And apron or roll, $G$,
to operate as and ior the purpose herein specified. 38,379.-Thrasher and Separator.-W. W. Dingee and
A. B. Farquhar, of York, Pa.:

We clatm, Girst, Driving the rake shafi, $\mathbf{c}$, from the continuation,
B. olline shat, A.
Second, $\mathbf{P l a c i n k}$ the delivery hopper, $F$, of the
Second, lacina the delivery hopper, $F$, of the fan in front of the
ront axie of the wagon.
Third, The combination of the feeder's platform, J , with the wagon brake, L. Connecting the line shafting by reversible couplings in
Fbich the shatit has a free longitudinal movement. 38,380.-Clothes-wringer.-S. F. Emerson, Seville, Ohio:
I claim the wedge, F, and thin I claim the wedge, F, And hathmb-screw, G, when arranged and op

## 38,381.-Hand Mowing Machine.-Henry Fisher, Alliance,

 Ohio :

[This invention relates to a new and improved mowing machine designed to be operated manually and for cutting or mowing lawns.] 38,382.-Kiln for drying Grain.-A bner Greenleaf, Jr.,
Brooklyn, N. Y., and T. C. Vice, New Haven, Conn. : Brooklyn, N. Y., and T. C. Vice, New Haven, Conn.:
 ues orpipes, C C', and to be used in combination n-ith said pipes, subtanial as and or the purpose shown and described
seond. The arrangement of the fllue chamber, D, at the rear and of
the kill A, in combinatinn with the ples, C
 Be aster and back to the chmner,
Fourth, The arrangind described.
C' as herein shown and described.
F.urth, The arrangement of the sieve, with the hopper and th
plat orm, H, as and for the purpose herein shownand described.
(This invention relates to a grain-dryer, which has bew in successfut operation fur: some $m$ nths. The
readily understood from the claims.]
38,383.-Water Wheel.-W. W. Gregory, Amsterdam, N.Y.

trhis incention relates to an improved water wheel of that claga monly termed current wheels The invention consists in the em. ployment of a series of buckets attached to vertical shafts provided at their upper ends with gears connected together and to a stationary gear by chains or equivalents, whereby the buckets, as the wheel ro
tates, are made to present a greater or less area to the action of the stream according to the power required, and the buckets also ren. dered capable of being adjusted manually when it is desired to stop the wheel sous to be in a state of equipoise and incapable of being acted upon by the current.J
38,384.-Lock.-J. L. Hall, Cincinnati, Ohio
I elasim, first, The provision or the sliding check piece or dog, $\mathbf{E}$,
operated in advance of the main botl by the same key or other device which movestan tatter, in combination with one or more sets of tum-
bers, substantinly as and for the purposes set forth.
Second, In the described combination with the fast tumbler, $Q$. I
 advance of the sain
which moves the said bolt, the whole being combined and operating
as ind forthe purposes subsantiall as set forth.
Thir, The arrangement of a hollow withdrawable hub, $\mathbf{G}$, contain.


 38,385.--Machinery for dressing Axle Boxes.-William Hamilton, Alleghany, Pa.
I claim facing both ends of an axle box at the same time by means
of two cutters slaced parallel o each other a right anglest che axis
of the axle box, whilh is caused torevolve on its axis, the cutters be.
 suht saline relauive postlion
The cimbination or or cutiter
at each end thereof and susceptible of motion toward each other while

 pass beyond the pollit of contactof the exterior surtice of the man-
darel and the interlor circumference of the axle box, substantially as
described The use of an adjustable gage interposed between the two cutters
ior the purpose of stcpping the oneration of the machine, when the
axle box has been faced down to the required length.
axle box has been faced down to the required length.
38,386.-Apparatus for evaporating Saccharine and other Liquids.-Denuis Harris, New York City :
I claim the rotating disks, E, and blast pipes, C, one or more, in
combination with the padd B, And steam under pressure, all arranged
as and for the purpose set forth. a and for the purpose sel forth.
[This invention consists in the
[This invention consists in the employment of rotating disks in con
nection with a steam chamber and blowing spparstus, all nection with a steam chamber and blowing apparatus, all arranged n such a manner that the sirup may be bolled by steam under pressof the sirup sumficiently bigh to retard or prevent crystalizization and eccasion a loss in sugar.]
38,387.-Sliding-door Sheaves.-R. C. Hatfield, New York
City : City :
I claim the application of adjusting apparatus to the bearings of
allding door shenves, for the purpose deseribed
Secnnd. I clatm the constructon of the whels of sliding door
Secnnd. I clatm the construction of the wh eels of silding door
sheares , tha a tire or periphery compoaed ora mutter or sound.dead-
etinus mitt trial.
38,388.-Chimney•fastener.-R. W. Hawkins, Pittsburgh,
I claim the use of a chimney fastenar fur lampe, consisting of a
 capabe of being sil.
the chimney 18 hed.
inbefore described.
38,389.-Electric Baths.-M. W. House, Cleveland, Ohio I claim, irirst, constituting the head electro e, C, the terminus of
twive bateries, which may receive positive. + and negative, , from
either batiery or instrum ent, or both of the positives or both, of the negatives, thus completing, double circuit through a single elec
trode. while the opposite poles ot the batteries, respectively, term rode while the opposite poles of the bateries, respectively, term
nate in traversing electrodes upon the sides of the tub, thus complet
ng the tircuit of either or both of the batteries, or induced current or ing the eircuit of either or both of the batteries, or induced current on
currents, through any conducting medium placed between the mn
Second, Iclalm the traversing electrodes in comblimation withcon ductors placed along the sides of the tub, as and for the purpose
specifed, Third, I claim such an arrangement of traversing electrodes, that
two independent sets of currents can be worked at the same time in two independent sets of currents can be worked at the same time in
the same durection or in opposite directions, llther longitudinally
transversely or diagonally ihrongh the conducting medium in the Fourth, I clainn working a primary uniuterrupted current in con
Fection with an induced inter rupted au rrent, either or both of which

Fifth, I claim thead, uss sille head electrode, when consiructed and
arranged so to
purpose set forth.
38,390.- Fastening for Ornaments on Dress.-D. B.
Howell, New York City: I claim the combination of a spring plate, A. and pins, a a applie purpose berein specified.
[This invention is more especially adapted for masonic or other or naments or regalia, which are to be attached as occasion may require O an ordinary dress, but is also applicable to oflicers' shoulder straps conven military or naval ornaments. Its object is to provide for the end it consists in inserting detachment oi such articles, and to this attached pins or hooks which may be sprung into the garment and held therein by the elasticity of the plate.]
38,391.-Horse-tooth Files.-J. P. Howell, Washington-
I clasim a horse.troth gita composed of a cast-metal stock or bandle
A, and a file, B, rande separately and fitted together, substunially a
IThis invention consists in having the file and stock made separately and the file fitted in the stock in such a manner that it may be a facility pose than bitherto used. I
38,392.-Sash Fasteving.-F. M. Hubbard, Protection I claim the driving wheel, g, the wheel, $k$. the spring, $h$, the cam
wheel. $L$ and dhe knob $e$, the vhole arianged in the manner and for the $p$,
38,39
8,393.-Watch.-H. B. James, Trenton, N. J. Antedated Nov. 14, 1862
I claino. first. Proriding an elastio ribrating support for the balance


 spid elastic cibrating sunpartity means of the slide ting, e, appplied in
combinatinn with the eular edi end of the arm, b, of the safid support,
 means of the thper st
ner herein specifed.
38,394.-Plow Clevis.-J oseplh Keech, Waterloo, N. Y. :
 snstains and adjusts the draft md substantiallv as and lor the purposes
herein aft 2 orth. 38,395 .-Ox•

Maine
I claim the spring. B, combin
38,396.-Fence.-Theodore E. King, Ashtabula, Ohio :
 an upright position, arranged and operating as setforth.
Thrd, I . claim the brackets, figure 6 , for yecuring the panels to the
posis as specified. pors as specined.
Fourth, Iclaim the brackets, M N N', for uniting the panels and
securing them to the base, $G$, ae deecribed. Fifth, $I$ claim the gate brackets, $P Q P^{\prime}$, and the hinge, R S S',
hown figure 7, constructed and arranged as and for the purpose 38,397.-Machine for making Nuts.-Philip Koch, New Haren, Conn. Antedated April 18, 1863: I claim, first, The stationary cutter forme of the steel bar, C, with
hole, b, made in it, in connection with the lever, D, or 18 equiva
ent, arranged as shown to cut the blank from the bar from is under dide upward, *ubs:An:1aly as set torth, $O$, and punch, $Q$ when
Second The comblintlmi of tie die, anged as sh own, to operate na and tor tre, purpose apecilied
Tbird The pin, $w$, attached to the spring, U, and baving the spiral spring, w, connected whit
arranged as and fort described,
Fourth. The combination of the die, $\mathrm{C}^{\prime}$, and movable bed, $\mathbf{B}^{\prime}$, ar
ar specified. The slides, $G$ I, arranged as shown when used in combina.
FIf
ion with the elever, D, and stationary cutter bar, $\mathbf{C}$, as and for the purpose set forth.
Sixth, The slides, $X X^{\prime}$, arranged as shown when used in combina thon with the pen, $w$, and box, $T$, to operate as and for the purpose
specifid
IThis invention consists in a novel and improved; manner of cutting off the blanks from the bars and forging or hammering the side finishing the same, whereby it is melieved the nuts mas be manufac tured in a more rapid and prompt manner than bitherto.]
38,398.-A pparatus for upasting Tires.-M. P. Larry Windham, Maine. Anteduted Jan. 16, 1863 :
claim a tire shrinker, constructed, combined and arranged as

38,399.-Lathe for turning Irregular Forms.-Edward
Lumley, Elizabeth City, N. J.: I claim vibrating the
38,400.-Lock and Latch.-Burton Mallory, Newshaven Conn.:
I claim a reversable latch-bolt when the same is placed in a case
independent of the lock case. and made reversable in the manner
ubstantially as herin
38,401.-Water Elevator.-J. B. McMillan, North Vernon Ind.:
 38,402.-Apparatus for cutting Ornaments in Paper and Leather, \&c.-John D. Mets, Dubuque, Iowa.:
I olaim, frst, Combining with the frame-work, A and B, the knifo,
a, and the frame, $\mathbf{C}$, and its knife, b, and the yielding plat forms, $\mathbf{D}$
and $\mathbf{E}$, a a and for the purpose described.
Second The remorem
 or the purpose described.
Third Constructing the main knife-frame so that it will constitute a holder or support for one or more removable knife.frames, substan-
bally as described. 38 described.
38,403.-A pparatus far grinding File Blanks.-Sargeat 0.
I claim the blank. holder, a, when made with the recess (corres.
ponding in depth to the blank to be ground, so that its taces sball be
patterns to which to reduce the surlace of the blank), and witl the patterns to which to reduce the suriace of the blank), and with the
clampg, for fraping the tave.
I also claim combining with the tang-holder, a, the gage-plate, $g$ When made with the pattern lips or edges, and to be conaned dire,
It to and so as to form part of the holder or carrier, for the purpose as above set forth.
38,404.-Saddle.-Barak T. Nichols, Newark, N. J.:
I claim the combination of the screw boits, $\mathrm{S} \mathbf{S}$, with the springs, 38,405.-Parallel Vise.-N. P. Otis, Yonkers, N. Y. Ante 8,405.-Parallel Vise.-N. P. Otis, Yonkers, N. Y. Ante
dated May 3, 1863 : I claime first, Tte, strap, D, and bar, C, applied to the part, a, of the
hank or pilla $B$, of the vise and connected by the keys, $E$, when he snid part, a, bas ony angular or irregular form which will anl apt

 (This invention the purpose specified.
and applition relates irstito an improvement in'the', arrangemen or pillicalion of the cross-bars which are connected to the shank wisting or the jaws, whereby the latter are protected from al hose prend mare durable tha ovel and fren and proved means for adjustingland securing the vise in dif workman may require, whereby the vise may be readily adjusted an rmly held in the desired position by a very simple contrivance and The wisly augment the The invention consists, thirdly, in an improved manner of securin etick jaw to ths shank or pinar, whereby the same, when taper articles are to be secured in the vise, will be allowed to adjust itsel properrelative position with the work and grasp the same firmly.]
8,406.-Door Knob.-Emory Parker, Meriden, Conn.:
In combination with the screw-chreaded knob and the screw
threaded angular spindle, I claim the clamp piect, b, orits equivalen fiting a recess in the shank and located wit min the escutcheon of the
knob in the manner and for the purpose substantially as set forth. 38,407.-A djustable Port-hole for directing Ordnance.-
Philiy G. Petty, Chief Engineer in the U.S. Navy: I claim, flrs. The use of spirally groverd rollers, substantialiy as
herein described, rotated br arcrew, lever, or other suitable means or the purpose of presenting at any desired height, an aperture to receive the muzzle of the gin.
Second, Ele valing gor depresing guns by means of spirally grooved
rollers, substantially as berein described. Thrd, Thereversible boxes, $F=F$ employed in the described com.
ination with the rolers, $D$, for the purpose of changing their dis. ance asunder.
Fourth, The caing, J, employed in the described combination with
the rollers, D D, to exclude smoke and gas. 38,4n8.-Vertical Windlass.-Charles_Perley, New York City: plied and the vertical shat ta carrying the chain heavers in a triang ula
 to or disconnected Irom the montive power, substantially as as specifed
n order that the vertical winduss may receire a faster or slowe
 one wheel 18 coupled and the other uncoupled, by an endwise motion
given to the said vertical shaft, , as specifed.
Fout given to the said vertical shaft, i, as specifed.
Fourth, I claim the arrongement of the pinion, $w$, atd shan, $z$, for
rasing and lowering the saffi, as apecifed.
Fifth, I claim constructiog the box or base of the vertical windla Fifth, I claim constructing the box or base of the vertical windlase
containing the gearing of a triangular shape in its general outline, in
order thai the tain base may occupv but Intle space and more firmly
sustain sustan the strain of the chain cables as specified.
sxith, in ocmbination with a chain heaver fitted in such a manner
Sat in mem that in, may combriated from below, or disconnected from the manner
power, I claim double gearlng for communicating a fast or slow mopiont such chain h eaver, substantially as apecified.
Seventh I claim constucting the base box of the vindlass
sith the erter With the elevated portion, e, above the top, b, substantially as shown
whereby double pearing can be introduced and the chain wheels ar whereb double earing can be introduced and the chaid
rassed from the deck as little as possible, asset forth.
38,409.-Constructing Cannon.-Charles Perley, New York I claty the barrel, a, with the exterior surface tapering both ways in combination with the ring, $c$, and breech cap, b, drawn together
by screw bolts or their equivalents as and for the purposes specifed. 38,410...Smage for Zinc Washboards.-John Poole \&
 tion with the cam or suaill wheel,, , and springcatches, $w w$, in the 38,411-Clamping and nailing Washboards.-John Poole We claim the slidi ng clamps E E, standards or posts, B B, with
he lever, $L$, and cams, $D$, in tie madner and for the purposes 38,4 12 .--Process for Graining and Ornamental Painting.William J. Potter, Chicago, Ill.:
O claim the emplotyment in connection with the aforeaid roller, of paint forming the figure or orpament, and thereby producing the or.
namental design required, by Bubequenty removing the paint form-
ing such figuresin the design, substantislly as and for the purposes ing such figures in the de
specified and described.
38,413.-Suspended.
38,414.-Shot Metallic Cartridges.-E. K. Root, Hartford,
Conn. A nte-dated May 3, 1863: I claim the combination of a ebarge of powder, a charge of shot
and the fulm inate. with a case or shell, surrounding or linclosing
them them, constructed substantialiy in the man
purposeset forth. 38,415.-Marine Propeller.-John B. Root, Brooklyn, I claim the arrangement of the blades and hub of the propeller sub-
stantially he hereingpecifed whereby the water is drawn from the
circumference toward the center and discharged from the center directly asternof the vessel as herein set forth.
38,4 16.-Pump.-Henry Rosen. Elkhart, Ind.:
 a and for the purpose herein set forth.
38,417-Gas Burner.-George C. Roundey, New York City:
B, and fish-iambination of the cap-tube, $A$, the expansion chamber, [This invention relates to that kind of burner which is placed like s cap over an ordinary burner, and it consists in the combination of a tube or globular expanding chamber and a tup.J

38,418.-Apparatus for Launching Vessels.-Thomas $F$ Rowlaud, Greenpoint, N. Y.:
 nuld provided with c
shown and decrited
38,419.-Device for heating Ores for Smelting Furnaces.-
Aifred Roger, Reeds Mills, Ohio:
 said grate being preserved from destruction by a current or tater
traversin tisineror, he whole bein combined and operated sub38,420 .-Hay-elevating Fork.-Luman Rundell, New Baltimore, N. Y.:
curve and thence to their points hay fork back of thehead in a sharp

 the sameat the place wherethey enter the head is obviated.
Airengraving of this fork was published on page 304, current volume of the Scientific American.]
of the Scientific American.] 3 . 421 .-Horap-power.-W. J. Sage. Steubenville, Ohio I claim the combligation ofthe two toothed wheels, C D, pinion, E
and shatt, $F$, arranged to operate in the manner as and for the pur pose berein set forth.
[This invention consists in the emplogment or use of two horizontal wheels provided with cogs which gear into a pinion, said wheels being placed one over the other and arranged in such a manner tha draw upon the upper wheel, thereby actingin two dufferent waysand the most efficient manner to propel machinerg

38,422.-HLamp Burner. -Orrin J. Savage \& George P
Hawley, We clasim, Hrat, The coone, Y., with its slot parrowid at the top, and square or rectangular bottom as represented.
Second, The combination or the cone, A. the broad and fiaring
finty perforate or foraminous shee metal belt B, widenin as it finely perforated or foraminous sheet metal belt, $B$, widening as it forations; made and used as represented and described, for the pur
posesset forth.
38,423.-Cooking Stove.-Jacob H. Shear, Albany, N. Y.
 with the back and botom flues, CDDE, in
purposes set forth in the above specification.
38.424.--Composition for filling Shells.-Levi Short I Philadelphis, Pa.: named ingredients or their equivalents, substantially in the propor-
tions and ior he purposes heren set forthies filed with combustible
Second, I claim metglie pellets or misiles
 matter in combination and use with
poses and substantially as set forth.
38,425.-Grain Separator.--Otie W. Stanford, Mason, Ohio anon, Ohio
We clain the vertically and laterally agitated shoe, B, having the
riddle, in the uppertront partorit, imimed jately under the hopper
and manty out of the blast, in the described combination with a case, And mainly out of the blast in the described combination with a case
AA havig that part of i, A, which contains the shoe, on much
wider than
 forth.
38,426 .-Cooking Stove and Range.-David Staart, Philadelphia, Pa .:
fircaim, firsh ${ }^{\text {fireplace, } J \text { and the chamber, } L \text {, } F \text { with its door, } k \text {, the chamber, } G \text {, the }}$ to recelve the culinary eessels, to communicate with each other. and
and the tireplace, and in respect to each oth
as and for the purpose hereln set forth.

 lerior of the vessel and the chamber within which the vessel
sugpended, for the purpose deacrited.
Third, The comblation of che compartment, $F$, the perforated

38,427.-Instrument for ascertaining the Amount of Water, N., in Barrels of Oil, \&c.-Guiseppe Tagliabue, New York City:
I claim, Grst, The tube constructed of metal and glass.
Second, The valves at top and bottom acted on by one rod and openink and closing togeiner.
as aforesald,
Fourth, The whole constructed substantially as and for the purpose
described.
38,428.-Chair.-Daniel E. Teal, Norwich, N. Y. I claim the combination of the seal, A, the springs, C C, or their
equiralents, and the frame, B, adapted to tiit back at ihe will of the
sluer againgt the resistance of the springs, substantially, sicuer against t.
and described.
33,429.-Apparatus for generating Gas from Petroleum and other Hydro-carbons.-George W. Thompson and 10, 1862
We claim depositing on the bottom of the retort a layer of unslacked
lime charcoal or other equivalent material, and so agranging the

38,430.-Machinery for molding Pottery.-John Fresch,
New York City : New York City
I claim, first, The arrangement of the double-headed reciprocating
carr lage, $C$, each h ead being provid ed with $A$ serl ea of revoling core


 as specifid, for the purpose shown and described
The object of this invention is to mold a large quantity of flower ittle labor.] 38,431.-Beehive.-Waters Warren, Three Oaks, Mich. :



[The object of this invention is to obtain a bee-hive which will be extremely simple in construction, economical to manufacture, and admit of having honey readily taten from it.]
38,432.-Elliptic Spring.-Richard Vose, New York City


substanually as hereln sel forth, I claim cennining and securing said
plates by means or the metallic heads, Ci and
D, or their


88,433-Arrangement of Conducting Pipes and Mani claim the combination Walworth, Boston, Mass : , 38,434.-Cherry-stoner.-Theophilus Van Kannel, Ches-
ter, Ill.: ter, IIL.:
I clam, first,







 Burenth A herein' describe
Beventh, A mathine for finning cherries operating substantally a
and for the purposes 8 specified.
38,435.-Safety Switch for Railroads.-Charles H. White, Emmett, Mich.


 38,436.-Hoisting Oyster Dredges.Joseph Whitecar | Philadelphia, Pa. |
| :--- |

 38,437.. Skirt-gopporter.- Norman Wiard and Hermann Weclaim the new aricicle York City:


38,438.-Process of manufacturing Illuminating Gas.8. - Proyd Weigand, Philadelphia, Pa.

I Indim the combination of the yrocesses disclaimed when com
binedrine mand maner or in any equivalient maner, as set forth and
described.
38,439.-Grinding the Upper Cutter of Nail Machines.-
G. I. : B. Wiggin and J. W. Hoard, Providence
 38,440-Window-sash Fastener.-Samuel H. Williams Shoemakerville, Pa .

38,441.--Incendiary Shell.-Loftis Wood, Brooklyn, N.Y




 experibed.
38,442.-Tourniqyet.-Frederick W. Bond (assignor to
 an elastic iiga iure, in the
substanlilly
as deacribed.
38,443.- Metallic Burial-case.- Martin H. Crane (assignor to Crane, Reed \& Co. Co., Cincinnati, Ohio:




 forth thilo clatm providing the fanges of the lower shell section with
Inge, or their equivalent, to receive the ends of the screws, substan tailly as sel torti.
38,444. Pump.-Joseph W. Douglas (assignor to W. and B. Douglas), Middletown, Conn. :
 screw.bod
deseribed
(This invention relates to an improvement in the force pump, and consists in a novel arrangement of the valves and valve box, whereby
all the valves may berendered accessible by the removal of one nut all the
onlg.]
38,445.-Sail Hank.-Charles Ellis (assignor to himself and Daniel Douglass. 3d), Gloucester, Mass. : $:$,
I claim the combination and arrangement of the sail hank and
 38,446. - Manufacture of Sheet-iron Hard-ware.-John Grey and John D. Grey (assignors to themselves and Thomas Grey), Pittsbargh, Pa.:



38,447.-Sewing Machine.-Frederick W. Grote) assignor to himself and Clans.- Tietzen), New York City:

 herefn specified, whereby the feed whel is ensibed to be ad dusted
around the nee die to feed in various directions and alwas skep close

 atuched to the needile.bar, the mhole
ate substantialy as herein specified.
,448.-Dry Gas Meter.-Charles C. Lloyd (assignor to






 meter, substantially as described and fet orth, for the purpose spect
feed. JohnM. Ordway, of Manchester, Charles E. Hodges, of Dorchester, and Nathaniel D. Silsbee, of Boston, Mass. :
 or silcatie by precipitiating the silicate, sand subsequenty pressing aud
 38,450.-Sewing Machine.-Charles H. Palmer (assignor




 38,451.-Horseshoe.-Isaac Peacock (assignor to himself and S. S. Sowyer), Shortsville, N. Y.


 38,452.-Paper-bag Machine.-S. E. Pettee (assignor to
the Union Paper-bag Machine Company), Philadel
phia, Pa.:


 alleys, d d, or their equivalectis, to the same, the shary edges of the


 resent a lateral saging of the paper without disturbing the crease
natle by the pulless, M . N .





 38,453.-Lamp.-W. H. Pierce,d Somerville, Mass., as signor to himself and Samuel Adlam, Jr., Boston Mass.
 substantially as set forth.
Second, I claim the combination of a glass lamp body, $A$, metallic
 38,454.-Machine for rolling File Blanks.-Charles Spef
ford and A. B. Southwick (assiguor to the Whipple

File Manufacturing Company) Bal to the Whipple We claim the rolls, E and $F^{\prime}$, me cumbithaton with tue carringe, $P$,
arranged and operating in the manner descrited tor the purpose set

RE-ISSUE.
1,471.-Cement for uniting Leather and other Substances.
-Samuel F. Hilton, of Providence, K. I., and Wamuel F. Hilton, of Providence, K. I., and William D. Hilton, of Cranston, R. I., assignees of
said Samuel F. Hilton. Patented August 13 , 1861 : We claim, as a new articie of manufacure, a cement rpade of the
wo materials heretof ore lirst mentioned, in combination substantial. yesigns.

## Mass.

758.-Breast-pin and Ear-drop.-Egbert S. Rlchards, Attleboro, Mas. extension
Method of making Wire-strengthened Spoons.-William Mix, Prospect, Conn. Letters Patent No. 6,413,
dated May 1, 1849. Re-issued, No. 480, dated August 4, 1857
I claim casting the spoon handle in a mold of larger dimen slons
than the tuaued ha ndie is required to be, as herein sel torih, and sub


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whe are concerned in new inventions. The duration of patents granted under the new act is prolonged aventren years, and the Government feerequiredon filingan appl estion for a patent is reduced from 330 down to 315 . Otherchang In the feesare also made as follows -

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## 4if

W. S. L., of Pa.-We have never known a case of a near sighte
eyes.
. L. Q., of Pa.-Spiral springs are manufactured at the Novelty Works and by Mesers. Hoe of this city
E. S. R., of Pa.-You will find a description of the mod of constructing an ice.house on page 16, Vol. VI (new series) of the scientific Americas. It should be built on a northern exposure with double boarded walls and roof, leaving a apace between the planking to be packed wilh saw.dustor straw. It should be buil ground.
D. D., of Pa . - The best paste that you can use for a scrap-book is that which is sold fur genoral use under the name mucilage. It is made from starch roasted at a temperature of 300 Fab and le called dertrin
N. P. M., of Ohio.-To cover your palley so that a bel will not slip on ft , take an old belt and turn the fleah aide out, dril holes in the pulley, make holes in the belt to correspond and rive it to the pulley win copper rivets. A beller way is to lace the be tightand throw a lithe rosin and on on h, the bell w-ill not slip . H., of Pa.-Your commanication on aerial navigation is too long and otherwise unsuitable to onr columns. Tour MSS. is at your disposa
J. G. G., of lll.-We have never ieceived your note on the length of the boiler to furnish steam at 40 pounds pressure par square inch. The length of a boiler is governed by the amount of heating surface desired, and we wish all whom it concerns to bear in mind the fact that we do not furnish estimates or calculations forbuild log steam or any other machinery. We could not attend to a lith our lesiness of th
A. L. P., of N. Y.-We cannot tell you how to procee to get the appointment of Professor of Mathematics in the Navy. You hed ber wita Welles on the subject. There no publication devoted exclusively to naval engineering.
O. T. W., of Iowa.-You can obtain a work on mills and milling by addressing Henry C. Baird, of Philadelphia
J. C., of Md.-The patentee of the connecting link resides in Texas, and it is not atall likelythat he hasaing ngent in this seo tion

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8. That they are, in the opinion of their 8. That the a are, in the opinion of their Commanding Offcers, mer-
itorious and deservfg.
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mental Com mander, and tranmitited through the regular channell
f millary correspondence, to the Provost Marshal General of the United 8tates. The Regimental Commander shall enter in the column of remarks,
opporlite each omicer's name on the roll, a statement as to the pe neral

 Sicer or oflicers making the recommendation. Similar rois shall be
frwarded from time to tme, whenerer the numhter of meal fulaling
he conditions enumerated or the exigencles of the service may ren
 Convalescent Camps, or are otherwise under the control of Medice pare the rolls acocording to torm, entering the names of someress and
men from the same Regiment on a roll by themselves, and send them, with the certifcate ot the Surgeon, duly higned, to the proper Regi
mental Commander, who will forward them, aoleretofore specifed,




 as Acung A sisistant Provost Mar shal General of the State. No Aappli
cation ot thin lind will be co nsidered unless the following conditiong are comat the applicant produce the cerlificate of the 8urgeon of the
Board of Enrollment for the District in which he resides, that ho unfit for active field daty an account of wounds or disease, and is n
lindle $t$ draft, but is At for garrison duty.
2 That hate 2 That he furnish eridence of an honorable discharge on account o
wounds or disability contracted in the line of dity
3. Tbat he produce recommendatinns irom dhe Rerimental, Brigade
and Division Commanders under whom he formerly served, that h
in
is

 and present its certifcate of the fact. This evidence must all be ob
tained ty the applicant, and must be transmilted with hla applicalio
 State, the application mas be forwarded throarsh the Adjutant Gen
eral of the tate, who is deai red to endorse the reon such facts in
military history


 cerlifcate to that eff ect, viz. :

4. That he was honorably discharged from the service.
The Provost Marshal for the District shall then send The Provost Marshal for the District shall then send the applica-
Hon, with this certificate of the Board, to the Acting Assiatant Pro
 salified that itit is a meritoriouscase, and that the man is desering,
he will enlist him in accordance with such sperial rules as the Pro: vost Marshal General may estabilish.
 under their control who my be fit ior service in the Iavalid Corps.
The Provos Xiarshal General
order aharged with the execution or ibis
his Bureau. iroops organized under tit will be under the control of his Bureau.
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