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10 Pamphlets contaning the PatentLaws and full particulars of the mode of applying for Letters Patent spectfying size of model required and much other in formation useful toinventors, may be had gratis by addressing MUNN \& CO., Pablishers of the Scienttrio american, New York.

61,408.-Butter W orker.--J.P. Adams, Whitney's Point, N. Y.: swinging frame, D, substantially as and for the purpose specifled. 51,409.-Stove-pipe Damper.-J. C. and A. B. Allerton,

Aztalan, Wis.
We claim the arraugement of the damper, $A$, with the strips, $C$, center, C. in combnation with the openings. ffe offisets, $D$, with the
51,410.-Lock Key Fastener.-James B. Ayer, Malden, Mass.:
I claim the supplerentary escutcheon B, above described, provided with a hinged leaf capable of being raised and loched in a
horizontal position, the several parts being made and appied sub
stantaly as above set
This ation haf
[This invention has for its object the construction of an escutcheon cor locks, which will provent the lock from being picked from the outside, prevent the key from being turned from the outside by保 ooking through the keyhole. It con antcheon, which in poted at ts top then, or the key, and a hinged leaf that when raised lies flatwise upon the lap of the key to prevent it from being turned, said leaf being noreover locked, when it is raised, by a sllding bolt-that passes hrough the supplementary escutcheon into the ordinary escutcheon or lock plate. 1
51,411. - Illuminating Public Clock.-Thos. Tves Baile., First, I claim the combination of the tubular hands, J $K$, tubular
qpindte, $A$, and flexible tubes, $F$, arranged to operate substantiaily as and, for the purpose, set forth: ner and for the purpose set forth. in the hour hand-socket, the ears,
Third, The chamber, xi tormed
o, on tie bosses, $C$, and the bracket or fixture, $D$, for the purpose specified.
51.412.- Automatic Stop Motion for Steam Engines.H. B. Beckman, Newburyport, Mass.:

51,413. - Machine for Separating Fibrous Plants.-Jas. R. Beckwith, New Orleans, La.:

First, I claim the use of self-acting nippers, in combination with
suitable stripping jaws, constructed and operatung snbstantially as
and for the purpose described and for the purpose described. Second The combination or the self -acting stripping teeth with
the strlpp ing jaws, substantially as and for the pnrpose set forth. The stripp ing ieciprocating tabi in in combination with the stripping
Taws and nuppers, constructed and operating substantlally as and aws and nippers, constructed and operating substantlally as and
tor the purpose specitied.
Fourth, The self-acting curved crearing arm, incombination with Fourth, The self-acting curved crearing arm, Incombination with
the nippers, constructed and operating substantially as and for the purpose set forth.
Fitth, The application of a self-acting spring dog, in combination
with the stripping teeth, constructed and operating substantially as With the stripping teetli, constructed and operating substantially as
ind tor the purpose described.
sis th, 'heuse of a curved elbow lever, $g^{\prime}$, $h^{\prime}$, in combination
 [This invention relatesto-a machine whichis particularly intended arts, or parts of plants, in which the a cores sub minis
51,414.-Watch Escapement.-Louis Billon, Brooklyn, N. Y. Antedated Aug. 28, 1865:

I claim B, and table-roller, D, constructed and operating subs tan Aially as described for the purpose set forth
51,415. - Water Meter.-Geo. F. Blake, Boston, Mass.: described. Giving to the valves of both cylinders thesame size, form construct, The rod J, arranged as described in relation to the cylin Ters, B'C, for the parposes set forth.
Dourth The arrangenent for conjoint operation of the valves
ater-ways, ports and plungers, in the manner set forth, for the pourth, The arrangement ior conjoint operation of the valves,
water-ways, ports and plungers, in the manner sett forth, for the
purpose of preventing the plungers from getting on centres, as 51,416.-Weighing Apparatus:-Orville S. Bliss, Fair field, $V t_{1}$ :
I clamm in weighing apparatins with two beams, having a single
suspension and donble connection, as described, extending one or both beams beyond the plvots at one end, and graduatingsuch ex
cension for a movable poise or poises.
51,417.-Gate Fastening.-Web5Broomhall, Circleville, Ohio:
Tclaim the catch plates attached to the Vertical axis, adjusted by
51,418.-Gage Cock.- JohnBroughton, New York City: shank, B, of a gage cock, and with a valve, the stem of which is
provded with wings b, or their equivalents, substantially as and
por
Thi invention
reckis invention consists in making the body or globe of a gage ock by removing said detachable globe, the operatlonof regrinding the valve is considerably facilitated, the Fings on the stem serving as
51.419.-Iubricator--John Broughton, Nè York City:
 end fitting the passage, c, snbstantiallyas and for the purpose above
described. Second I also claim the combination of the locking collar, H, with
the reservoir, A. and tubular spindle, D, constructed and operated substantially as
51,420.-Combined Rein and Back-strap Holder.-John Bullene, Chicago, Ill. Antedated Nov. 29, 1865:
I claim the arrangement and combination of the part, E and D , I chaim the arrangement and combination of the part, E and $D$,
with the loop or part, h , subsiantialiy as described and 1or, the pur-
poses set forth.

51,421.-Machinery for Forming Sheet aMetal Ware. First reaim the Roston, Mass,
First, rclaim the arrangement of the dias, plungers, and mafor cutting blanks from sheets of metat, and shaping the same
into variousarticles of use at one operation.
Second. The method of giving to the holding surfaces a relief mot'on to prevent the increasing thicknesso tin, caused by being ng surface, and the reby tearing the thn asunder.
Third, In machinery for cuttlng and shapingmetal, I claim oper-
ting the cutting dies by means of forming the toggle-ioint ating the cutting dies by means of forming the toggle-ioint,
when actuatd through the incermediary of connecting rods or
links, by vibrading cams expansible, substantialls as and for the purposes set forth
Fourth, In machinery for cutting and shaping metals, I claim
operating the forming die by means of levers forming the togglejodjastableconnectlngrod, bF a a vibratory ycrank, the crank on in of
which is adjustable substantialy as and for the purposes sec forth. 51,422.-Bungs.-O. R. Burnham, New York City: First, I claim the curved flange, E, with its edge, b, constructed abstantially as and for the purpose aboveset fortn.
Secoud, I also claim the combination in a bung of the three Second, I also claim the combination in a bung of the three
separate and independent 1 ints tormed respectivery by the screw
threads on its body, the shoulder, a, under is fange, E, and the arcular edge, or or ribed.
purpose above descrian
rhird, I claim reducing the weight of metal required for a bung by const
scribed.
[This infention has for its object the production of a bung for barrels and other vessels, which will not be attended with leakage round its joints, and which may be applied to and removed from the bung hole with facility.]
51,423.-Broom or Brush.-Marcus I. Bym, M. D.,
First 1
First, I cla mm a broom or brush made of bundles of c arn husks
ecured toget her at one end by glue or cement and placed within a metal head, and secured by wire or sewing, as set farth, and pro-
vided with a metal socket ior the handle, as specified.
51,424.-Coal Stove.-Gardner Chilson, Boston, Mass.: kirst, I clain the improved stove an made with the concal dom the boiler chamher or smoke flue and the project ngg cap or platspecifided.
Second.
Second, I also claim the stove as made. With the annular fender
combined with the frrepot, the dome, and the cap or platform, Aub-
stantially as set forth. Third, I also claim the improved conical donie', as made with an-
nular corrugations, arranged as set forth. 51,425.-Trace Fastener.-D. H. Clock and F. D. Ryan, Newville, ind.:
First, We claim the fixed pronged metallic plate, $g$, interlocking spring tonkue,, m, ang, in combination with the sliding clasp, $l$, having
puthe
51,426. Hinge.-Jeremiah Close and Ira Buckman, Jr.,
Brooklyn, N. Y.: Brooklyn, N. Y.
We claim the center plate, R, baving a hinge joint on both edges,
in combination with the sieeves, dr, the springs, ff, and outside
leaves, $A$ A2, sibstantially as and for the purposes herein specifed.
51,427.--Bed Bottom.-Henry A. Cooke, Charlestown, Mass.:
First, I claim the combination as well as the arrangement of the
cams or inclines, d f, the supporters, springs, ${ }^{\prime}$, with the bedstead frame and with the bed bottoin, con-
structed oi the longitudinal slats and the traverse bars, arranged sether as specined.
 tudinal slats and with the bedstead trame, arranged as specified. 51,428.-Cultivator.-John Copeland, Quasqueton, Iowa:
I claim the two crossed levers, H H, connected Wy a pis, a, and
applied to the plow beams, B B, to operate in the man aner substan. tially as and for the parpose herein set torth.
I further claim the eombination of the levers, in if, perforated
b, bar, $J$, lever, K, and pin,
for the purposespeciitied.
LThis invention relates to a new and improved cultivator, of that class which arecapable of being expanded or contracted in order to conform to the width of the spaces between the rows of plants under cuitivation. The invention consists in a novel application of levers to the plow beams whereby the latter may be operated-expanded and contracted-with greater facility than hitherto, and while the device cr implement is at work, and so that fit will be under the complete control of the operator.
51,429.-Bed Bottom.-M. C. Cronk, Auburn, N. Y.
 rating as and tor the purpose hereiu set iorth.
51,430 .-Apparatus for the Manufacture of Paper Pulp. Iclain the Wombination, Philadelphia, Pa.:
Iclain the combination of the pulp digester, A, the steam or hot
water heating coil, $\mathbf{E} G \mathbf{H}$ I $\mathbf{K}$, and the circulating ing the digesting liquid continuously from the bottom to the top of the maveral to pe pulped.
Second, 'the combation
Satmg coil and the circu of the lower perforated diaphragm, the Third, The combination of digester, A, and the circulating pump, 4, and the beatiug chamber, B, whereby the heated refuse liguid
coming fronn the igester is made to heat the fresh water which is orced in to supply its place.
51,431. - Apparatus for the Manufacture of Paper Pulp. First, I claim the comb, Philadelphia, Pa.
First, I clamm the co inbination of the paper pulp digester, and
the heating channber in which the refuse liquid escapiog from the digester ismade to heat the fresh llauid to be forcedinto the disester.
Second, The combination of the paper pulp digester, the pump
for circulating the digesting luiqud and the coil. f , for heating the liquid while clrculatilug, and the chamber for, heating the the tresh
iqud by the escaping retuse liquid, arranged and operating subatantially as descilibed.
51,432.-Process for Making Paper Pulp fom Coin Stalks.-John W. Dixon, Philadelphia, Pa.:
I claim the process of making pulp from corn stalks, by digest-
ing them in highly heated water urder pressure, substantially as
describe described.
1,433.-Process for Making Paper: Pulp.-John W.
Dixon, Philadelphia, Pa .
I claim the process of treating wood, straw, and sumlar vegeta-
ble scbstance by forcing blghy heated water under pressure to
crealate continuously through thc mgs to
ble scbstances by forcing bighly heated water under pressure to
clrcalate continuoust through tbc mass to be pulped by means of
a pump as a process or prepacatory process for making paper pulp,

51,434.-Seal Lock.-H. TV. Dopp, Bufialo, N. Y.: I claim the combination of bow, A, slot holes. B, B, and bolt, $C$,
together with soft metallic seal, d, as and for the purposede-
scribed. scribed.
435.-Nail-plate Feeder.-Daniel Drawbaugh,
claim the arrangement and eombination of the revolving feeder, N, with its rods. R, Wriggs S, three fanges, T, dies, V, ind oed-
cillating upright, K , as herein desrcribed and for the purposes set
forth. 51,436.-Cloth, the Weft of which is Made of Hair, Grass, Etc.-James Downie, Paterson, N. J.: I claim a cloth formed with selvedges, and woven with a hair or
grass woot, made by overlapping the ends of the theers of har or grassupon each other, anong or around and parallel with a central
or guidng thread, and wound, bound or wrapp d with a winding.
binding or wraping thread, substantially as described and to the
effect
51,437.-Device for Casting Stereotype Plates.-W. F.
Draper, Andover, Mass.: on centers, 1, the platen, D, plates, CC, $A$, the frame, screw,
B, journaied
substantially as and for the operating 51,438.-Machine for Weighing Grain.-Elijah F. Dun-

- away, Cincinnati, Ohio:
 , connecting with the extension of the scase beam, $\mathbf{H}$, when ar: Second, I also claim the arrangement and combination of the
register wheels, R-S T , wich their pins operating each other, chect register wheels, $R^{-7} \mathrm{C}$, with their pins onerating each other, check,
W, and springs, $X$ and $Y$, as herein described and for the purpose
set forth Third, I also clam the combination of the rod, $P$, pawl, 2, and
arm, N, when arranged asherein described and for the purpose set
torth. 51,439.-Shoemaker's Burnisher,-Richard Egan, Brooklyn, N. Y:: nisher, consisting of a noovable head, A, metallic socket, B, and
handle. C. all suiustantially as hercin described. - IThis invention consists in making a burnish
the edges of soles and heels of boots and shoes, 0 therpohshing able from its handle, and in so constructing the handle that it will not be easily injured when the burnisher is heated for use] 51,440.-Many-barreled Fire-arms.-W. H. Elliot, Ilion, N. Y.: mer and operated by a cam, substantially as shown and describto second, so constructing and operating the cam and tring pin that
they shal serve the purpose of rathet and pawl, substanially as
and for the pur oose herenl describ. 1 . 51,441.-Gas Stove. - Luther Ewing, Brooklyn, N. Y. Antedated Nov. 30, 1865:
I claim the combination of the, conical draught tube, $\mathbf{B}$, cylin. der C, pertorated or reticulated plates, b b E, and inclined boitom
plate, d, of the concentric cslinders. F G H, all the said parts being
constructed and arranged to operate as herein This in vend arranged to operate as herein specified.
This in vention relates to a new and hoved heat-radiating gas stove, and it consists in the employment or use of a series of cylinders, arranged one within the other, so as to form concentric fues or draught passages, in connection with a gas burning appa
ratus, whereby. it is believed that a large amount of beqt will the obtained by a moderate consumption of gas. 1
51,442.-Thermo-electric Battery.-Moses G. Farmer Salem, and H. Julius Smith, Boston, Mass.: We claim the improved thermo-electric bar, constructed substan
ially as herein described, viz. by the addition oi some supporting
aaterial, more tenacious gnd tese liable to be broken than the bar to Which it it sapphed.
to walso claim empioyment of an insulating coating applied
to the supporting rod or wire, for the purpose substantialiy as and forth.
51,443.-Spring Slat for Bed Bottoms.-James M.
French, East Cambridge, Mass.: arms substantially as described, said ioints being capable of receiv.
ing within them a piece of rubber or a spring, substantially as and
for the purposes specitied. for the purposes specilied.
51,444.-Washing Machine.--Martin Gardner, Sr., Carlisle, Pa.:
I claim, Firrt, The sbort shafts and their guides, connected and
combined with the rubbing segment and its ways, so that the ses combined with the rubbing segment and its ways, so that the seg.
ment may be operated rcom the outside of the box, and be tree io
rise and tallwith the inequality of the clothes being washed, sub. rise and lallwith the ine
stantially as described.
I also claim the adjusting or regulating of ; the extent of the de-
scant of the rubbing segment while it remains free to rise above scent of the rubbing segment while it remains free to rise above
that linit, by means of the ninged bearers, eccentrics, and turning 51,445.-Grain-hulling Machine.-Smith Gardner and A masa B. Howe, New York City:
We clam so arranging and mounting the disks, $\mathbf{C}$, and arms, $\mathbf{D}$,
 Whenthe
scribed
51,446.--Construction of Screw-propeller Blades:Charles C. Gates, Albany, N. Y.: I claim the manlier of forming the blades by their irregular
curves and widths, and unequal tinickness of staves, as combined and arranged ar specified and for the purpose set iorth. Mass:
manutacture hinge, constructed substantialiy as described, as a n $\in \mathbb{W}$
51,448.-Sectional Steam Boiler,-Stephen J. Gold, Cornwall, Conn.:
First, I claim the construction of boiier sect ons with partial
flues, substantially as set forth. fues, substantially as set forth.
second Constructing the ends of said partial fiues, with concave
fianes or projections, substantially as and for the purpose set flanges or projections, substantially as and for the purpose set
torth. 51,449.-Piston Packing.-Simeon Goodfellow, Trōy: N. Y.:

I claim the combination and arrangement of the tapering pin, $p$,
formed nnto screw trread and key square, the lever spring n, and
rings, ef f, all constructed and applied in the manner and for the
purpose specified. purpose specified.
51,450.-Horse Rake_-Robert A. Graham, GreensFirst, I claim Ind.:
diagonal rod, $\mathbf{C}$, zpplied to the end beams, B B,
First,
sbatialily as and for the purpose specifled.
Second, $l$ claim the employment or use of the swivel, $\mathbf{E}$, in combination with the rod, C, substantially as specified . Toird. I
to the end
specifled.
[This invention consists in the employment or use of two bent rods, secured diagonally across the end ot the rake frame; and in using a swivel joint, whereby, when therake is revolved, the chain will automatically change its position, so as to be in proper place for drawing the rake forward; and it also consists in a novel manner of connecting the rakeshatts withthe end pieces and frame, whereby the tines can deturned inward, or toward each oth er, so as tomakea more compact implement when it is desired to store a way the same.]

1,451.-Bung-hole Reamer.-Lyman Gray, Pittsburgh, Pai.:
Plaim

 the pot, and siliding gate ase atache d hereto operat
as represented, for the purposes nerein set forth.
51,452.-Clothes Mangle.-Joseph B. Greenhut,Chicago, III.: the combination of the central roller, B, driven by hand
 y as described and represented.
51,453.-Register for Street Cars.-Joseph B. Greenhut, Chicago, ill.




 he obiect set forth.
1,454.-Valve Gear for direct-acting Steam Engines.liamsburg, N Y.




51,455.- Grate Bar.-Warren E. Hill, Erooklyn, N. Y.
 meen
ides of the bans, substantialv in tho manner and for the purpos
51,456.-7'ire-upsetting Machine.-Hiram L. IIoward
Mendon, Mich.: Mendon, lich.

 ench pank,
51,457.-Thill Coupling.-James W. Innis, Milroy, Ind. 1 claim a thill coupling for wheel vehicles, composed of an eye. E
in which the thill ron , , secured by a pin, b, the eye being pro
vijed with a pendant rod, D , which is fitted in a protuberance, on a clip, A, and secured therein
as and for the purpose set forth.
[Thisinvention consists in attac, hing the thill to the axle in such a nanner asto obtain a firm and secure coupling, and one which will admit of the thills being very readils attached to and detache from the axle.]
51,458.-Machine for Cutting Wood Gear.-James Jack son, Woonsocket, R. I.:
I claim, First, The combination of the piroted arms, GA G, recip
rocating slides,, rotary cutters, $S$, and bel, $T$, arranged and ope
 forth.
[Thisinvention relates to a new and improved maohine for cut ting wooden teethfor bevel gears, whereby the wor a may bo don in an expeditious and perfect manner, and the machine adapte forcutting teeth to suit wheels of different diameters.]
51,459.-Method of Preparing Gold for Dental Pirr poses.-E. G. Kearrifty New York City:
the purpose described. Also, preparing gold for dental purposes, by beating it out in lasses, honey or other suitable materials, substantially as hereia
set forth. et forth.
[This inventionconsists in beating the gold into fine leaves, and molding it into a cake by squeczing or other mechanical means, or oney, molasses, or other suf able adhesive substance, and in this state formed into cakes of the required size and weight.]
51,160.-Washing Machine.-Patrick Killin, Mount Healthy, Ohio:
I clam, First, The a djustable washboard composed of parts, E F,
and spring, f , constructed as above described and tor the purpose etforth. f . The endless belt, e, comprising bars, d, driving drums, $D$,
Second. constructed as ashown an d for the purpose set forth
belt, e, and compressing bar, 4 , as described, and for the purpose
set forth.
51,461.-Car Coupling.-George L. Kitson, Philadel phia, Pa.:
claim the combination of the sliding catch, B, with the spring
in connection with the pin, C , and groove, I , in said pin, C . 51,462 .-Coloring and Polishing Wood.-E. Knabes chuch, New York City:
I claim coloring and polishing woods with aniline colors, sub
stantially in the manner described.
51,463.-Animal Y'rap.-Sylvanus Knight, Adel, Iowa Ingaim the arrangement of the case, A, furnisisied with the open
 necting with the wheel consisting of axie, n, and wmgs, y, the whol
being constructed, ar ranged and operating substantially as herein
described, and for the purpose set forth. 51,464.-Machine for Punchiog Paper for Telegraphs -Marshall Lefferts, New York City:
First, I claim the escapement pawl, 14, operating substantially as
 escap ment, 14, in combination with the keys, E , for the purposes
and substantially as spectifed
Third, I claim revoring the trpe wheel and .shaft by a friction
pulley, substantially as specified. 51,465.-Wrench.-J. Parker Lindsay, New Haven ${ }^{6}$ -
Conn.: Conn.:
I clamm making the bar, B, of the wrench with a rib, sline or
feather, on 1ts back edge or side, substantially as herein described
and set forth.
51,466...Skate...John Lovatt. Newark, N. J.:
First, I claim dividing the foot rest of a skate in the direction of or attached to the sypports therefor of the skate, that they can be
eitber moved towara or away rrom each oner, substantially in the
inn deacribed and for the purposes specifled. she outer edges or peripheries of the foot-rest censtructing or forming at sulta.
 Third, In combination with the longitudinally divided skate foot.
rest. baving side clam ps, g g, ot the fixed rest, pin or stud, G , for the frontot the
pose specifed.
61,467.- Lock.-L. H. Mayott, Springfield, Mass.:

 51,468. - Bottom for Ie Ie Cream Freezer.--Edward
M. Manigle, Philadelphia, Pa.: M. Manigle, Philadelphia, Pa.:

I claim the herein described tinned, deecarbonized, cast iron bot-
toms for ite cream reezers as a new ariciele or manufacture. 51,469.-Sash Fastener.-Jacob B. Masser, Suubur., First, I claim the wedge-shaped serrated bolt, $E$, occuping a re,
Fss of sinilst shape in the case, $D$, and opornting as described by

 51,470.- File Holder-W. C. McGill, Cincinnati, Ohio: Iclaim as an improvedarticie of manuracture, aynle holder mate 51,471.-Machine for Starching and Glazing Cords,

Braid, Etc.-Donald McInroy, New York City.
Antedated, Dec. 9, 1865: First. I claim the convoruted pipe. p, forming a dryer to the
specified. I Ilaim the hollow dryer, d, and ironer, e, applied as and or third, 1 and regulated by the friction strap as specifed.
61,472.-Grate.-Peter Murrey, Milwaukee, Wis. I claim the combination of the supporting bars, D, D, and rock-
ing bars, E E, operating substantially as and for the purpose described.
1,473.-Combined Horse Rake and Hay Spreader.
First, I claim the combination and arren. Y.


 c. for operatingthe
purposes spenited.
t

51,471.-Pung...F. S. Pease, Buffalo, N. Y
I claim the elastic air chamber with its, interag expanding
goring in combination with the arrangement of valves and pas
sage, substantially as described.
51,475.-Operating Ordnance.-Charles Perleg, New York City:
first, I claim the mode hereit apecified of elevating a enan or
the




 lunser acted on by bydraulic crasessure. probienthiaily a a ram or
 51,476.-Hinge.-E. N. Porter, Morrisville, Vit.: I'claim the arrangement and combination of the block, Y, arms,
ar, and sprim, K, substantially as described
and for the turposes 51,477.-Weather Prophet.-A. C. Rand, Union Mills, Ilam Yclaim the use of the reed, a, or a hygrometer plant, in com-
yantin with the um brella, C , and figure, A, arranged and diataitially as and for the purpose herein shown and deserbed (This in rention consists in the application to a human figure of
the reed of a hygrometer plant, in combination with a miniature the reed of a hygrometer plant, in combination with a miniature
umbrella which is connected to sald reed and to the figurein such manner that when the atmosphere is dry, the umbrella is turned down to the side of the figure, and when the atmosphere is wet he umbrella is turned up over the heall of the figure, and by these 1,478.-Centering Circular Saw.-W. T. and I H Rand, N. H.: I claim in in nentering circular sams, the combination of radial pins
supended in sots cur in their arbors with a taper-pointed screw 51,479.-Fruit Slicer.-James H. Reed, Kent County; Del.: Iclaim the combination of the holion mandrel., A, the morable
knvives and the oclar, , constructed and operating substantially is desc
51,480-Process for Preserving Eggs.-Richard S. Rhodes and Ebenezor Whyte, Chicago, Ill: We claim the herein described process for preserving eggs from
decay and pre: erving their vitaltity, substantially as spectied and decay and
set forth.
51,481.
51,481.-Steering Apparatus.-Price W, Robinson, Ne.W I Bediaim, Frrst, Mass.:
traveling, nuts, arran parallel fixed, T-shaped guide bars for the
 51,482.-Cane Stripper.-Horace Rockwell. Roanoke, Ind:
and tor the pur 51,483.-Scissors Sharpener.-James J. Russ, Worces ter, Mass.:
 Secon. The cimbifination with the polygonal sharpener plate
the purpo
sect
 together se
stand subs
specifed.
[Thisinvention relates to a novel and very useful implement foy the sh rpening of scissors, shears, and other similar cutting instru ments, ana consists in so securing upon one side of a suitable land an adjustable polygonal or other suftable shaped sharpenen either more or less, according to the position in which it 1 s set, in combunation with which sharpening plate and upon and across the dra wn across the edge of the sharpening plate, which goide is also susceptible of adjustment therein, whereby it and the sharpener

Plate can be set to correspond with the bevel of the cuttingedpes or scissors, etc., be itmoreor less,]
51,484.-Shingle Machine,-Samuel T: Sanford, Fall
 Secump. The nse of two gangs of saws in one and the same sash,
one in frontand the other in the.rear, substantially as and for the
purn urpose set forth
[This invention relates to a mach nee in which tifo gangs of saws re used in مne and thesame sash, one in front of the ot her, in com nation with slottedguides, one for eaoh saw or for each gang.or saws re caused to act in one, nd the rear saws in another ai rection, thus producing two kerts which intersect at an acute rection, thus producing two kerts which intersect at an acute
angle, and cutting a block of wood up in a number of shingles equal to the whole number of an ws, less öne, provided said block 1 is thick enough to be acted upou simultaneously hy the whole number of saws in the gate.?
51,485.-Combined Filter and Cooler-- Louis Scharff, Spring Mill, Pa.:
 51,486.-Horse Rake.-D. P. Sharp, Ithaca Township,
Iclaim the combination of the eyes, or sockets, d d d, with the
metallic plates, c . and coiled teeth, E , all arranged to operate as
 teeth appli
specilied.
[This invention relates to a neí and useful improvement in horse rakes, and of that class in which wire teeth are ured. The in. vention consists in a novel manner of attaching the teeth to the rake head, whereby an independent movement is allowed each firm and durable manner.] 51,487.-Suspended.
51,488.-Padlock.-Thomas Slaight, Newark. N Ju. Irlaim the sliding bolt, C, in combination with a spring or proviled with hooked ends, g, which are arranged in such relation
with the eye of the shackle, and the rear or opposite enss arranged
in such relation with the stimp, b', to operate in the manner substantialiv as set forth.
[This invention relates to an improvement on a padlock, for which Letters Patent were granted to this inventor, bearing date Oct 14, 1851, and in which $\Omega$ bolt. tumblers, and springs are combined in such a manner that the springs. will snstain noth the tumblers and hoit in place, and carrv them forward when drawn wack by the key in unlocking, and also turnthe shackle out when unlocked, a nd sists in an improved arrangement of the tumblers, one or more, with bolt and springs, ss hereinafter described, whereby the tumblers are made to serve as a more efficient guard or check than heretofora, and tiae lock rendered more. difficult to ifick or open illegimately
1,489.-Burglar Alairm.-B. L. Stone, New York City: I claim, Firsi, Constructing the clamp, H, with a hinge ioint, to
enable to be folded up close against he back or side of the case, substantially as specified. Second, The device, $j$ k 1 m , or its equivalent, for holding the rod $_{\text {So }}^{\text {from operative atter the clock work has been wound up, and while }}$
 the rods, e and h, arranged substantially in the manner and for
the purposes herein mentioned. 51,490. - Horse Hay-fork.-Grove F. Strong, Onondaga, I claim, First, A horse hay-fork, suspended by a simple bail with
out brace, held surorkine position by latches at the ends of the Srcond In combination with the bail or handle of a horse hay
fork, the latch bolts, g, constructed and operating substantially an Third, in combination with the bail or handle of a horse hay.
fork, the lever, k, witk the cross head, i, and connectjons,
purpose of witidraw ing the latclues and liberating the fork. purpose of witidrawing the latelles and liberating the fork.
Fourth, In combination with a horse bay.fork, the hooks, to o,
and ring, , for the purpose of enabling the trippling cord to be
51.491.-Basket Machine. $\dot{-}$ J. B. Sweetland and E. C.
Goodrich, Pontiac, Mich. Antedated Dec. 5, $1865^{\circ}$ We claim, First, The employment of spring catcher, a a a, used
in connection with the head, D , substantially as and for the purpose herein specafied.
Second, The employment of the adjastable staff or standard. Pe
when the same is used in the manrer and tor tho purpose specifed, 51,492.-Heater for Skates._Owen W. Tart, New York City:
First, claim so constructing the beating chamber and combin-
ing it with the toot plate that access can be tad to its interior with out removing the foot from the foot plate, as and for the purposes set forth. The rim or flange, a, extending all round the edge of the
Second, Toot plat substantially as sud for the purpose described.
 51,493 -Bed-bug Trap.-Wm. Tapper, New York City: I claim the arrangement and use of a braded frame made of
split willow, or its equivalent, for the purpose of acting as a trap
to catch bed bugs, in the mauner sumstanially as described.

51,494.-Cultivator.-J. H. Thomas, P. P. Mast, and Thos. Harding, Springfield, Ohio:
First, We claim the independent short axles, E, provided with First, We, claim the independent short axies, $\mathbf{E}$, provided with
the proje ction, F, and secured to the main axle, B, in the manner
shown and described. Second, The combination of axles, $E$, rods, $c$, and lever, $I_{\text {, as }}$
shown and described. Third, We claim the lever, $G$, in combination with the lever, $I$,
rods, c , and axles, E, arranged and operating as set forth. 51,495.-Grain Separator.-Andrew J. Vandegrift, Cininnati, Ohio:
First, I cla mo the attachment of wings to a flf, wheel, in such a same set of arms and hub in coominos thus constituting, in com-
bluation, a derice to perform the donble oftice, acting bator of, motiop, or distributor of power, and, at the same time cegu-
stitutime enticit exhaust fan, constructed in the manner and
veat for the purpose substantiall so set forth veed forthe purpose substantially as set forth.
Second, Peculiarly constructed lever, U, shaft, K, wheels, if $f$,
shaft, L , or their equivalents, when located at the mouch or shaft, Li; or their equivalents, when located at the mouch or lower
end of foue, 1 , in such a manner as not to form a mateinl olstrucend of due, N, in such a manner as not to form a material obstruc-
tion to the air rushing into faid fue, and to transmit motion to
dish or disk, M, or its eguiv leat, without the neessity of extending a shaft up throush tube Q, When arranged in the manner and


slipjoint, $R$, with connection rods, S S, cross head, g, thumb screw,
h. and case, $T$, all arranged relatively h. and case, T, all arranged relatively with each other, co

51,496.-Steam Engine.-Lawriston Towne, Providence, R. I.:
I claim regulating the velocity of steam engines by combining a
variable steam port with a librrasing valve gear, substantially in
the manner described. 61: 497.--Pruning Knite.-L. O. Vaughan arid P. W. T. We claim the link, C , and f
We claim the link, C, and friction rollers, e e, in combination
with the cutting bade, , bed plate, A, and lever, a a, substantially as herein shown and described.
[This invention cansists in a novel arrangement of a cutting blade on a suitable bed plate, which fhas its outer end of a hooked shape,
tion.]
51,498.-Lock.-R. Vollschwitz, N ew York City:
Iclaim the case. C, with the mechanism for iocking and unlock-
ing, in combination with the lock platê, A, and bolt, b, all con-
structed and arranged substantially as and for the purpose deing, in sombination with
structed and arranged substantially as and for the purpose de
scribed. 51,499.-Chalk Holder for Billiard Tables.-Henry M Wall, Niles, Mich.:
 manmernemmen
51,500.- Machine for Raking and'Bunching Hay.-Lo-
renzo Wallace, Leavenworth City, Kanzas: First, I claimthe rake, C, in connectlon with the endiess elevat-
ing apron, and cleavers, U , placed or arranged in a mounted
frame, substantially as and for the purpose set forth.

 purpose set orth.
Fourth, The beating device, composed of the bar, M, provided at
one side with a rack,
ond, and heving the cross barq, t , at in its lower
 Fifth, The discharger. J', app ied to the machine cnderneath'the
recelver.r, , , aving straps, m, attached, conneetted with levers, and
arranged an anerate in connetion w th the receiver, substan-
tial y as and fur the purpose set torth.
IThis invention relates to a new and improved machine for raking up and stacking hay in the fleld, and is designed to economize in the labor of harvesting hay.]
51,501.-Window Shade.-James W. Ward and Stephen D. Wilson, Richmond, Ind.:

We claim the construction of a window shade in which the slats
or strips are formed of converging surf aces, producing edges, as
and for the purposes set torth.
51,502.-Manufacture of Sugar.-H. Weller and J. E. Hatcher, Fultonham, Ohio:
 tially as herein described, so that it io divested of the gum mixed

[This'invention is designed to facllitate the! !manufacture of sugar
from Northern canes, and is apparently a simple and economical devics for the purpose,]
51,503.-Horse Rake.-M. D. Wells, Morgantown, West I claim the bar, $\mathbf{F}$, attached by a apring, $G$, to the cross bar,
of the thills, $\mathbf{B}$ B, and ounaunum, wht the lever, c, ali arranged and applied to the rake to
operate substantiauly in the manner as and for the purpose set
forth.
[This invention relates to a new and useful improvement in that class of horse rakes whieh dlscharge their load bya revolving movement, and it consists in the employment or use of a simple a
ment for controlling or regulating the turning of the rake.]
51,504.-Apparatus for Ventilating Ships.-Oliver D. Wells, Westerly, R.I.:
First, I claim the interior tight skin, C D, arranged relatively to
the timber framing, A, and to the tight planking or onter skin,
s,
substantialiy in the manner and forthe purpose herein set forth. second, I claim thetight partitions, J, tormed in the sides of a
essel, substantially in thr manner and for the purpose herein set
forth.
Third, I claim the air ways $c$, between the parts. D and A. ar-
ranged relatively to each other, and to suitable means of receiving ranged retarively to each osker, and air, substantially in the manne
and discharing the atmoospheric and
and ior the purpose herein set forth. and ior the purpose hereln see i, formed longitudinally above and
Fourth, I claim the passages i,
below the dek of a ressel, substantially in the manner and for the
purposes herein setforth.


51,505.-Corn Harvesters.-John S. Williams, Chicago I claim

51,506.-Machine for Spliting Wood.-William L. Wil liams (assignor to hl:
ner), aew rork Clity:
Ire claim the rollers, sile apideof the knives in splitting
fire wood, in the mamer and for the purposes specifed.
51,507.-Machine for Cutting Stalks and Stubble in the
Field Preparatory
Galesburg, Ill.:
First, I clai m me lifting and dropping of the knife, o, a alterrately
by means of a series of roilers, a a and the elongated or ot her si mi
larlv constructed springs, DD, substantially in the manner and for
the purpose as herein set tor th.

combinatión with the roilers, a a, for throwing out of gear or disen-
gamag the springs, to which the knife, C, is attached from the
rollers, substantially in the manner and for the purposes as herein
51,508.- Suspended.
51,509.-Clothes Sprinkler.-E. T. Colburn (assignor
to himself and William P. and Isaac Gannett), Bos ton, Mass.:
I claim the clothes sprinkler. hereln described, the same oonsist-
ing of a waler reservoir provided wath hollow valve, stem or tube.
arranged so as to operate substantially in the manner specifled.
[This invention relaces to a novel hand device or implement to be
used for sprinklling clothes previous to being froned, and it conslists in combining with a closed vessel or reservoir for the water employed, having one of tts ends finely perf erated, a hollow valve stem or tube, so arranged therein that by opening the filled with the low stem or tube, when the valvebeing closed axd so held, by de predeing its stem with the thumb or flaser of the band in which the
air to the vessel is provented, the water, when so desired, by simply elcher ingreater or lesser quantities, according to the force with which it is shaken.]
51,510.-Steam Generator.-James Connery (assignor to himself and William G. Pennypacker), Wilmington, Del.:
 C, and heating tubes, e, constry
and for the purpose described.
51,511.-Burglar Alarm.-A. W. Deerow (assignor to Edmund Hoole), Brooklyn, N. Y.:
I claim the tripping boit, B, so arranged with reference to the
striking mechans $m$ as to operate in ether a vertical or horizontal direction, substantially as herein set forth, for the purpose specifed.
51,512 .-Connecting Rod Couplings.-Hiram S. Dodge,
Lockport, N. Y., assignor to J. W. Doty:
 spondung sock ets, H H, In the strap or bar, B, the adjftink bolt, E,
and litch,, , all constructed and arranged and apiled as herein
described.
51,513.-Composition Pavement.-Daniel C. Heller (as
signor to himself and B. Frank Boyer), Reading
Pa.:
paris, litharage, coal tar, lime, sand, and broken stone or equivalent sel torth.
IThe object of this invention is to furnisha compositlon pavement LThe object or hat not hable to be injured by heat or frost, and be water tight; and it consists in forming the foundation or lower layer of the pavement of broken stone, cemented together by coal tar and lime, and in forming the surface dressing of sand coal tar, litharge, and plaster of parls, Each layer being closely packed and leveled by passing over it a heavy roller before the ce ment has had time to set.]
51,514.-Mop Head,-Peter R. Higby, Buffalo, N. Y.
assignor to himself, William Smith, and Erastus W
I clalm the combination of the frame, A B B, and the pivoted
oop, C, constructed and operating substantially as described and epresented.
51,515,-Funnel.-Charles Jones (assignor to himsel
clalm a funnel struck upin dies from a single piece of meta
 fut es or corrugation
as herein described.
LThis invention relates to an imported funnel of that class which are provided with corrugated or fluted ends or nozzles to admit of
the escape of air from the vessel while being filled by means of ihe unnel.]
61,516.-Spring for Bedsteads.-David Manuel, Newton Mass. (assignor to himself and William Manuel)
claim the

I claim the combination as well as the arrangement of the eye, $\mathbf{B}$
and the conotdal or conical spring, $\mathbf{A}$, substantially as specifled and as represented.
51,517.-Caliper.-Benjamin G. Martin (assignor to
Benjamin G. Martin, Thomas M. Davis, Loyd H. Wention, and Watson Sandford), Philadelphia, Pa. I claim the application of a plumbing bar, c, to a pair of calipers,
having feet, by ba, constructed so as tot orma straight ine with
each,other when in contact, as and for the poppose described. 51,518.-Mash Tun for Brewers.-Benjamin G. Martin,

Davis, L. H. Walton, and Watson Sandford. AnteDavis, L. H. Walton
First, I claim the case, A B, hopper, C. shaft, D, and paddle ogether, in' combinination with the raleses, Ead E, or their equivalents, Secon', I claim the sparger, G,' in combination with the supply
pipe, $g^{\prime}$ or tts equivalent, ani the hopper, C , the same being con. structed and arrangod to operate together substantialy as and for Trire, I also claim the application of distributing paddles, H H,
to the shatt: $\mathbf{D}$. tie said padd les beng constructed and arranged to operate nelow the case, A B, as and for the purpose described, when one mixing machine heren described is
sutable mash-receiving tun, as doscribed.
51,519.-Welt Trimmer.--John B. Reed (assignor to
himself and David R. Tyler), Warren, Mass
 and the rayy, a
51,520.- Paper and Letter File.-Homer Riggs (assignor
I claim the herein-described metallic letter nie, made adjustable
as to exten, substantially as and for the purpose specifled. 51,521.-Steam Generator.-James Samuels (assignor to himself and George W. Otis), Lynn, Masss: partments, A, snbstantially as and for the purpose described.
Second, The combination and arangement of the rings, B and $I$. Second,
comparmen ts,, , , rods, E
for the purp ose a escribed.
51,522.-Pump.-C. A. Stillman (assignor to C. B. Cot trell and Nathan Babcock, Westerly, R. I.:
orm, in contradistmetlon to the lorm of a true cylinder, so that the wear of the box, will be compensated, substantiallyas described.
Second, Forming , water space between the larger head of the
valve box,, , and the adjacentend, $h$ of the valve chamber, $C$, valve box, B, and the adjacent end, h, of the valve chamber, C,
cubstantaly as and forthe purpose above set forth.
Thilide. hinging the valves on the upper or higher sides of their
seats. substantially as and for the purpose above set forth. 51,523.-Mode of Raising Railroad Tracks.-James Temple(assignor to himself and H. P. Hottenstein), I claim, First, The combination of the vibrating rack bar, $\mathbf{D}$, with
, rackorpinion bar, $\mathbf{E}$, constructed and operating substantially asdescribed, for the purposes et forth.
second. the combination of said parts, $D$ and $E$, with pinion
wheels, $F$, and trame, $\mathbf{C}$ B, operating conjointly to producc the re. wheels, $F$, and trame, C
sultabove mentioned.
51,524.-Lock for Coats, Etc.-Charles B. Trimble assignor to himself and Charles T. Allen), New
York City. Antedated Nov. 30, 1865: First, The safety coat lock herein described, the same consisting
of a chain fred atone end to and upon the wall or other sultible le of a can in combination with a suit able locking or holding device
plaving the general featuresherein pecifed, the two peng arranged
and operatlug together substantially in the manner set forth. 51,525.-Scoop and Flour Sifter.-George 8. Wendell (assignor to J. Horace Taylor), New York City: I claim a combined scoop and sitter Fhen arranged with the
hande, C. located as deseribed, having the shield plate, He, behind
the Fire screw, F, and with the hooks or rests, D', attac hed to said 51,626.-Lantern.-William Westlake. Chicago,' Ill., I clamm conneo Cross. Dane, and Westiake:
guard, by means of the ring or rod of the guard and the spring
catohes or the ir equivalent, substantially as and for the purposes
berein set forth.
51,527.-Die for Making Railroad Crossing Points.Hugh Baines, Manchester, Eng.:
I claim constructing and operating dies, in' the manner sub-
stantlally as set forth, for the purpose of making railroad points. 51,528.-Preserving Timber.-Alexander Hamar, Hun I gary, Empire of Austria:
I claim preserving timber from deca, insects, and other dest ruc
tive ayests, by means of a solution prepared substantially as.herein
deserifed, and applied in the man descrised, and applied in the manner herein set forth.
51,529.-Device for Reefing Fore and Aft Sails.-Johr Sunderland, Ener;
I claim, First, The combination of the boss, or socket, a, pun
jaws. cd and chand, k , with the boom or gaff, as and for the pur
poses spec fied
poses spec fied, in combination with the chain passing round the
The guard, m ,
boss or socket at the fore end or throat of the boom or gaff, as set
Third, The conbination of the travelers, r , with the mast hoops
and sail, as and for the porpose described.
51,530.- Penman's Assistant.-William King, Hopewell, New Brunswick:
oclaim an apparatus for supporting the arm white writing, com.
pof of an arm plate, A, bar, B, and wrist pad, E. Bubstantially
n the manner herein shown and described. Also manner herein shown and described. combination with an arm plate, A, and bar, B, as set fort h,
Also the epring, farranged under the bar, B, substantially in the Anner a nd for the purpose specitied.
Also the combination of the nerrivit ${ }^{\text {gith }}$ with the wrist pad, E,
substantially as and tor the putpose descrited. [Thisinvention relates to a device for supporting and steadying he arm and body of a person while writiong, said device being so neutral parts of the head and arm, leaving the muscles, blood vessels, and nerves connected with the movements, of the pen, free vessels, and nerves connected
rom pressure or congestion.J
51,531.-Process for Smelting Iron.- Frederick Lang, Vienna, Austria, and Charles Augu t Frey, Storre,
Styria:
pectaim the process substantially as, herein described of pree
paring certaim refractory ores and scoija cinders, produced in the
manufacture of iron, preparatory to and facilitating the reduction paring certain retractory ores and scoila cinders, produced in the
manuracture of iron, preparatory to and facilitailing the reduction
thereof, as descrtbed. 51,532.-Spinning Wheel.-J. M. Flood, Fulton, Mo.: 1 claim, First, the arm, M, pivoted to the bench, A, at, x, in com-
bination, with the treade, O. the belt or cord, F , te wheel,
d and d, and weight, W, whe whole constructed, arranged, and
operated as described and set forth.


## REISSUES.

2,124.-Machine for Pointing Wire.-Orin L. Hopson and Heman P. Brooks, Waterbury, Conn. Letters We claim, First, A ilivided die, filted and actuated substantially
s specitied, and operating by a series of compressions ucon the article to be formed, to give to such article a smooth round shape, Second. We claim the adjustable radial cams, k, in combination
With the law, dhaft, band dies, i, substanlily a specifed.
Third, We claim a divided die rticles, of metal are compresesed, in combinatlon with a cyilindrical
screw or aquivalent device to regulate the opening of the die, and the con
sequent amonntof each successive reduction, as set torth.
125.-Sewing Machine.-John Bachelder, Norwicn,
Conn. Patented May 8, 1849. Extended seven Conn. Patented May 8, 1849.
years. Reissued Sept. 22,
First, I claim, in combination, the supporting bed which sup-
 operation hereanbe, ore specitied.
Second, I claim, in combinatinn, the supporting bed, the constant
elding oressure holder, and the reciprocatiog eye-po1 nted needle Second, I claim, in combinatinn, the supporting bed, the constant
Yielding oressure holder, and the reciprocatiog eye-ponnted needle,
cach having the functions and mode of operation Eerein before specified. I claim, in combination, the supporting bed, the constant
Third, In preasure holder, and the reciprocating needle carrier each lelding pressure holder, and the reciprocating needle carrier each
having the functionsand mode of operation hereinbefore specifled.
Fourt, Fourth, I lalam, in combination, the supporting bed, the plelding
pressure holder, the reciprocatngevepoinied needle, and the per
petual feed which moves the material horizontaly petual feed which moves the material horizontally under and past
the needle while is suported by the \&upporting bed, each havivg
the functions and mode of operation hereinbefore spe tfled the needle while it is supported by the supporting bed, each haviug
the functions and mode of operation hereinefore, se filled.
pith 1 claim, in combination, the supporting bed, the yield ing
 the supportingbed, eaves having the functions and mode of opera-
tion hereinberiorespecifed. sixth, I claim, in comblina tion, the holding surtace which sup-
ports the mater al immedi ately about the netle borizontaly
ander the thrust of the needie, and the perpetual feed which moves under the thrust o the needle, and the perpetual feed which moves
ibe material horizotally under and past the needle upon and over
such holdiag surface, each having the functions and muds of seration as hereinber ore specified. the holding surface which sup-
Sevent.t, I clamm in comblnation,
ports the material immediatelv about the needle horizontally under the thrust of the needle, the perpetual teed which moves the
macerial horizontaily under and past the needle upon and over
sach holding surface. and the receiving plate which receives the material from the feed during the operation of the maching in
sewing a seam, each having the function and mode of operation hereinbefore specifed.
Eighth. I clatim, in combination, the horizontail. holding sur-
face immediately about theneede, he perpetual feed, the receiving plate, and the yielding pressure holder, each baving the functions
and mode of operation hereinbetore specifed. and mode of operation hereinbetore specified.
Ninth, I claim, in combination, the horizontally holding surface immedlately about the needle, the perperual feed, and the yielding
pressuro holder, ach having the functions and mode of operation
hereinhefore specifed. hereinp efore specifined
fenth, claim, in co
immediately about the needle, the perpetual feed the yielding immediately about the needle, the perpetual feed, the yielding
prevsure holder. and a reciprocating eqe.- pointed need.e. each
havis the functions and mode of operation berein before specified.
Evel Eleventh, I claim, in combination, the horizontaily holding
surface immediacely about he needle, the perpetual teed, the
Yedin Yielding pre sure holder, and the rrciprocating need le carrie, each
havng the functions and mode of operation hereirbefore specifed.
Twelth, I claito In combination, the receiving plate, and the perPetrual feed, each having the functions and mode of operation hereThirteenth, I claim, in comblnation, the horiz ontally holding
surface impediately about the needle, the perpetual feed, and the
reciprocatiog needle carrier, each having the function $B$ and mode
of operation herein before specitied.
Forteenth, I claim, in combination, the perpetual feed, the re-
civing plate, and the yielding pressure bolder, eaoh having the coiving plate, and the yielding pressure bolder, eaoh having the
functions and mode of operation hereinbefore specifed.

## DESIGNs.

2,228.-Burial Case.-Martin H. Crane and Samuel A. Traugh, Cincinnati, Ohio.
2,229, 2,230.-Cooking Stoves.-Conrad' Harris and Paul W. Zoiner, CIncinnati, Ohio.
2,231.-Arch of a Letter Press.-Francis Hovey, New York City.
2,232.-Advertising Carriage.-Oliver F. Sage, Bostor
Mass. Mass.

