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Reportod officially for the Scientitic 1 merican.



1,736.-Benjamin Arnold, of East Greenwich, R. I., for an Improved Lamp Shade
scribed, and for the purpose herein set and levers, substantially as de.
1,737.-B. T. Babbitt, of New York City, for an Improved Construction of Iron Vessels
The combination of the sulphur with the frame work of the vessel,
in the manner substantially as shown and described.
1,738.-John C. Baker, of Adams Center, N. Y., for an Im-
provement in Wheels for Carriages
I Claim the plate, $A$, provided with the concentric circular proiec
 purpose set torth.
IThe object of this invention is to construct a wheel in such a man ner that any one of its spokes may be removed and a new one inserted in its place without taking the tire from the wheel or disturbing the felloes, the invention at the same time admittmg of the wheel being $y$ and in a very durable manner
1,739.-George Barker, of New York City, for an Improvement in Machinery for Making Cigars :
plates or boxes. K L , for the purpose of mounting the rollers in com bination with the guding pins a nd adinstable scre wse, or their equirapurpose set fort
1,740.-Charles Bartholomae, of New York City, for an
Improved Canteen: Improved Canteen :
I claim, first, The induetton

## I claim, first. The indfettion opening, d, provided with a fixed funnel B, in combination with the mouth tube, E, and with or without the air tube

 tube, K, when applied to a soldier's canteen, constructed of cnrvedformin its horizontal section substantially as and tor the purpose set forth.
Second in its horizontal section substantially as and tor the purpose set forth.
Second, The filter, I. when constructed, arranged and used in con-
nection with the mouth tube, E, of the canteen, as herein shown and escribed.
[The object of this invention is to obtain a canteen which may be worn with greater facility than those of usual construction, more read
iiy filled and more convenient to drink from, and be supplied with an eficientfiltering device, which may be used whenever necessity re quires. The invention consists in constructing the canteen of curve form in its horizontal section, so as to contorm to the shape of the form in its horizontal section, so as to conform to the shape of the with funnel attached, and also provided with a mouth-tube and filter, o eff ect the desired result.]
1,741.-E. P. Barton, of Batavia, and R. W. Towle, of Bath N. Y., for an Improvement in Hay Rakes :

We claim the combination of the handles, C C C, hinged to the rake
head,, , with the bars,, , and arms, E , when these parts are ar-
,
ranged and operated together in the manner and for the purpose speci-
1,742.-Canfield Blodgett, of Morrison, Ill., for an Improve ment in Plows
I claim the improvement in the construction of the standard, A, in
combination with the beam, B, the handles,, , plate, D, and brace, E,
all attached, constructed and arranged substantially in the manner all attached, constructed and arranged
1,743.-Lewis Boore, of Buffalo, N. Y., for an Improvement in Dry Gas Meters :
Frrst, I claim so operating the valve as that an equallongitudinal and will move over equal surfaces and describe equal circles for the pur pose and substantaly as described. in combination and arrangement
Second, I claim the cross, $i^{\prime} \mathrm{i}^{\prime \prime}$,
with the valve, $F$, and operating crank, for the purposes and substan-1,744.-C. H. Bradley, of West Chester, Pa., for an Improved Post Office Distributing Table : semi-circular table, $G$, and recelving boxe3,
ing substantially as described and shown.
[This invention is intended for facilitating the distribution of mail a number of clentes, or tubes, inclining outward and downward, from the top of a table to the bottom thereof, and in combining with these inclined tubes a revolving table, having large boxes on it, correspond-
ing in number to the number of inclined tubes used, arranged horizoning in number to the number of inclined tubes used, arranged horizon-
tally under the tubes, for receiving the mail matter, which is passed through these tubes.]
1,745.-J. C. Butterworth, of Providence, and B. H. Arnold, of east Greenwich, R. I., for an Improven
verting Reciprocating into Rotary Motion :
First, we claim the use and employment of the combination of the
lever, foot-piece and case, substantially as described and for the pur-
pose set forth.
Second, We claim combining the cases substantially as described, so
that the levers and foot-pieces shall be made to act by the friction crethat the levers and foot-pieces shall be made to act
ated between the cases, for the purpose set forth.
1,746.-N. W. Camp, of Trenton, N. J., for an ImproveI claim the constructi
I claim the construction of the skate as specified, that is to say, of two
distinct runner portions, $B$ and $B^{\prime}$, in combination with a single flexi-
ble plate, or sole, $b$, in the manner and for the purpose described. ble plate, or sole, b, in the manner and for the purpose described.
1,747.-Jeremiah Carhart, of New York City, for an Improved Propeller Shield
claim a shield substantially in
pended from the stern of a vessel by rods projecting down arards, withpended trom the stern of a vessel by rods projecting downwards, with-
out reference to size, placed over the wheel, and in part enclosing and
protecting the same, and which thereby partially confines and concenprotecting the same, and which thereby partially confines and concen-
trates the water upon the same, increases its power and also the
speed of the vessel, constructed substantially as and for the purposes described
1,748.-John Case, of Philadelphia, Pa., for an Improved Canteen:
I claim the tube, $B$, with or without the filtering medium, $\mathbf{E}$, fitted
in the cork, $\mathbf{C}$, which is provided with a chamfered side, $h$, in combi-
nation with in the cork, C, which is provided with a chamfered side, h, in combi-
nation with a canteen, A, provided with a perforated nozze, D ; all
arranged substantially as and for the purpose set forth. ISee engraving of this invention in No.

1,749.- Richard S. Child, of Philadelphia, Pa., for an Im-
 1,750.-John Chilver, of Jersey City, N. J., for an Improve ment in Molds for Molding Pipes of Plastic Mate rials
I claim, first, The construction of a mold with its fat bottom, and
its proiection, T, whereby the sections of pipe made therein may be
readily coupled, and have a continuous base, substantially as herein its proiection, L , whereby the sections of pipe made theren may be
reasilivecoupled,
describe have a continuous base, substantially as herein Second, The combination with the flask of a mold of a core of uni-
form isie and shape rom end to end, constructed so as to expand and
contract, substantially as described contract, substantially as descrived.
Thira, the combination of the sectional bedpate and collar with the
fask ined and operating substantially as described.
1,751 . - Neil Clifford, of Brooklyn, N. Y., for an Improve ment in Vapor Lamps


[This invention relates to in improved of that class in whic volatile hydro-carbons are burned, and the burning material vaporized
by a supplemental tiame, in order to supply or feed the illuminating flame.]
1,752.-J. A. De Maniquet, of Paris, France, for an Improvement in Machines for Twisting Silk
First, T clain the method of makink a continuous regular twist al thoughit the silivers or strands on may beirregolar, and without destroying
the elasticity of the material, and withour unraveling it, as hereinbe. ore descriede . method of winding and unvinding by means of an an
second
nular spinde, or its

1,753.-Andrew Derrom, of Paterson, N. J., for an Im provement in Portable Huts

 tarth.
[An engraving of this invention was published in Vol. 4, page 352.]
,754.-P. S. Devlan, of Elizabethport, N. J., for an Im
provement in Car Brakes
I claim the employment of clasping brake levers, D, substantially as
herein efore eescribed in combinaton with the axle, or axles of he
Truch ond
 1,755.-Andrew Dougherty, of New York City, for an Im-
provement in Machines for Damping Paper:
 set forth.
1also claim
he unrolled wit combination of a shaft that supports the roll of paper


 I a iso claima a roilung mechanism, which is a combination of a shaft,
or itsequiraleutt, for bolding the roll of paper, with a concave friction
 on rollers, substantially as descrıbed.
a also clam the combination of the following members, vizFirst, An apparatus for supporting a roll of paper and making ten Secon, An papuerizizing apparatus substantially as described
Third, A damping apparatus substantianly as deseribed.
Fourt, A rolling mechanism substantially y as described
The whole constituting a machine, operating substantially as de-
scribed, for damping paper from theroll, and delivering it in a damp
condition
1,756.-L. H. Doyle, of Waterloo, Iowa, for an Improve-
ment in cultivators :
I claim the sockets, D, D' at the back end of the beam, A, with the
feet or standards, E E,
bar, F , and brace thereesin shown, in connection with the
h, arranged to brace the feet, or standards. E E,

[The object of this invention is to obtain an efficient and simple im-
plement for the cultivation of crops which are grown in hills or drills -an implement which will thoroughly pulverize the soil, and render it weeds, and be capable of throwing earth either to or from the growing

1,757.-J. D. Elliot, of Grafton, Mass., for an Improvement Machines for Folding Cloth

 manner and for he perperge herein specifiedion iown in ad vance of the I also claim giving burpose the table the . and a positive motion, in ad-
vance of the folding blades, for the purpose set forth. ance of the folding blades, for the purpose set forth.
I also claim constructing the.jaws, $n$, with a roughed surface for
olding the folds of the cloth, made substantiaily as set forth 1,758.-W. C. Fuller, of London, England,for an Improvement in Gun Carriages:
I claim the particular modeor modes of applying india rubber sprin
in the construction of gun carriages, as set forth and descrieed.
1,759.-H. A. Gage, of Manchester, N. H., for an Improve-759.-H. A. Gage, of Manchester, N. H., for an Im
ment in Machines for Addressing Newspapers : I claim the mechanism for regulating the imprespano of the platen,
consisting of the lever, $F$, link, $G$, and nut, $H$, on the rod, E, substanally as described
60.-C. P. Geissenhainer, of Pittsburg, Pa., for an Im provement in Cooking Stoves :

1,762.-C. R. Gorgas and Wm. H. Smith, of Wooster Ohio, for an Improved Furniture Caster : We claim the combination of the socket, B, conical pin, C, cups,
and H, necks, a and b, and roller, D , all constructed and operating in
the manner and for the purpose shown and explained. 1,763.-J. W. Graham and J. M. Topliff, of Pittsfield, Ill. for an Improvement in Water Elevators
and cears, if $B$, and gears, if g , and clutch, G h, the whole constructed and operating
substantiall as described, for the purpose eset forth
Second, We claim the combination of the wind ass having reverse helical grooves, with the cords a and water bucket, and the device for
opening the value of bucket, thin whole arranged and operating as d
scribed, for the purpose set forth scribed, for the purpose set forth.
Third, We elaim. in combination with the elevating and automati-
cally discharging bucket andgrooved windlass, the blank, $u$, as and for Fourth, We claim constructing the bucket with a mouthpiece, $p$, in
the purpose specien Fourth, We claim constructing the bucket with a mouthpiece, $p$, in
combination with its valve and opening mechanism, and a fillmg valve
in center of bucket's bottom as described, for the purposes set forth. 1,764.-Edward Hamilton, of Chicago, Ill., for an Im provement in Breech-loading Ordnance :
I clamm the combination of a fixed breech and a movable conica scribed.
I also claim the combination of a movable breech and of a fixe
breech, constructed and arranged substantially as described, with reech, constructed and arranged substantially as described, with a
removable stopper for the charging opening, substantially as de 1,765 .-G. H. Hartman, of Fort Wayne, Ind., for an Improvement in Beehives
I claim, frast, The employment, in combination with the box, A B C
D, of the trapezoidal removable comb frames. a, the whole arranged
and operating as described, for the purposes set forth. and operating as described, for the purposes set forth.
Second, I claim, in combination with the sliding drawer, F, the re-
novable wire gaze frame, $c$, arranged and operating as described, for Third, I claim making the front of drawer, $F$, beveled at $d$, in com-
Thur
ination with the decoy entrances, e e e, as described, ior the purpose bination with the decoy entrances, e e e, as described, ior the purpose
set forth.
Fourth, I claim the peculiar manner described of regulating the en 1,766.-Albert Holbrook, of Providence, R. I., for an Improvement in Pickers:
I claim applying a rawhide picker to a pickerstaffi, by means of a 1,767.-Albert Holbrook, of Providence, R. I., for an Improvement in Pickers
I claim my improved rawhide
maternal, and with itstwo ends folded, interlocked and connected in s set forth.
,768.-George Ives, of Detroit, Mich., for an Improve-
ment in Ditching Machines:
I claim in the described combination with the colter, $H$, plow,
trough, $\mathbf{D}$, and elevator, $\mathbf{E}$ of a ditching machine, the arrangement of the colters, $\mathrm{J}, \mathrm{J}$, attached to the sides of the machine at a distance in the rear of the plow, and projectung laterally beyond the path of
latter, all as shown and explained, and for the purposes set forth.
[This invention relates to an improvement in ditching machines in which the earth is carried from the bottom of the ditch, as fast as it is loosened, to the back part of the machine by an inclined endless caroff some distance on each side of the ditch out of the track of the

1,769.-Frederick Kesmodel, of San Francisco, Cal., for an Improvement in Apparatus for Taking Casts for Pads:
I claim the described apparatus, consisting of piston, $\mathbf{E}$, mold, $\mathbf{A}$,
and elastic diaphragm, $B$. arranged in relation to each other, and for
the purpose of forming pads. as set forth.
1,770 .-Dennis Lane, of Plainfield, $V$., for an Improved Method of Setting the Log in Sawmills:
I claim the employment or use of the ratchets, H I J K, having
 the ratchets being praced on the shaft, F, having, pinions, $G$ G, at its
ends which gear miteracks, DD, attached to bar, C, all being arranged
as and for the purpose set forth.
[The object of this invention is to obtain a means for setting the carriages of sawmilis which wiliadmit of a single attendant adjusting the $\log$ to the saw, and also operating the brakes for feeding and gigging
back the carriage. The invention also has for its object the ready adapting of the parts for adjusting the log to saw boards of different thicknesses.]
1,771.-W. B. Le Van, of Philadelphia, Pa., for an Im-
provement in Water Gages for Steam Boilers :
claim, first, so arranging the valve, in respect to the internal red, I, that the center line of one shall coincide or nearly concide, with the center line of the other when the rod or valve, or both, are so con-
struceedthat the valve can we operated without disturbing or being
disturbed by the rod, as set forth disturbed by the rod, as set forth.
Second, So constructing the valves, $G$ in respect to the said internal
od, or the rods, in respect to the valves, that the latter can be operated without disturbing the former, as set torthl.
Third, The hollow branch, b, of the steam chest, A, combined and
arranged, in respect to the opening of the valve, $G$, as set forth, so as to afford ready access to the interior of the glass tube, as specified.
1,772 .-E. H. Lewis, of Wilbur, N. Y., for an Improvement 1,772.- E. H. Lewis, of Wilbur, N. Y., for an Improvement
in Machines for Polishing Stone:
 1,773.-John Miller, Jr., of Baltimore, Md., for an Improvement in Machines for Making Paper Batry and Boxes I claim, first, The combination of the crosshead, LL, lever, F, rock-
shaft,
substantiadiustable arm, C , and fingers, B, constructed and operating to the strips of paper.
Second, The cutter, $\mathbf{G}$, constructed as shown and described, and op.
erating in connection with an intermittent feeding device, snbstan erilly as and for the purpose set forth.
Third, The mold or forder, N, constructed as described, and opera-
ting in connection with a suitableplunger, substantially as and for the purposesset forth.
Fourth, The combination of the rotary brush, $\bullet$, fountain, $\mathbf{P}$, and pressure cams,, , operating to paste or glue the boxes while passing through the molds, as explained.
Fifth The spring clasps U U, applied beneath the molds, $\mathrm{N}, \mathrm{em}$.
ployed to hold the joints of the boxes until set, as explained. 1,774.-William Miller, of Boston, Mass., for a Fire Es: cape:
I claim having the ladders of fire escapes made of slotted tubular
metal, and rounds arranged and operating, in respect to each other, in the manner shown and described.
The combination of the curved rack, $E$, with the hinged ladder, $D$,
, operating pinion, $c$, and platiorm, $A$,
for the purpose shown and described.
[This invention consists in the arrangement of a toothed segmel attached to the main ladder, which is hinged co slanuar:ly c.iLugs rismg rom the platform of the truck, in combination with suitable gea wheels, in such a manner that, by the action of said gear wheels on the toothed segment, the ladder or ladders can be lansed and retainct in the apright or inclined position, as may be desired. It alsutionsis the rounds of the several ladders, in such a manner that the side raiis of each ladder guide and strengthen the guide rails of the next sucders are supported and tre same time, the rounds of the inner la next preceding ladder?

1，775．－J．W．D．F．Moon，of Coventry，N．Y．，for an Im－ provement in Thills for Vehicles
 in the soc．
set forch．
1，776．－F．A．Morley，of Sodus Point，N．Y．，for an Im－ proved Steering Apparatus． singlenult，$E$ ，serew and on conneeting piece，$D$ ，moving piece，$D$ ，and
 And，in combination with the above，I claim the guides and grooved．
boxes，G G，to accommodate the upward motion or the rudder，as ex－ 1，777．－F．A．Morley，of Sodus Point，N．Y．，for an Im－ provement in Potato Diggers

1，778．－B．F．Norton，of Manchester，N．H．，for an Im－ provement in Sewing Machines
 operating in combination limperi．in the table，o，the whole con
and arrangea substantially as and for the purboses set forth，
1，779．－Lucius Parker，of Manchester Station，Conn．，for an Improvement in Railroad Car Brakes

purposes shown and described．the adjustable weight，$H$ ，in combina．
 The object of this invention is to obtain a brake for railrod cars which may be operated with great facility，and be capable of applying itself in case of the casual detachment of a car，or any number there． ff from a train；the invention also being so arranged that all the brakes of a series of cars comprising a train may be operated simultaneously， and the train stopped within as short a distance as practicable． ．
1，780．－Henry Rawson，of Leicester，England，for an Im－
provement in Machines for Combing Wool ： proverent in Machines for Combing Wool ：
I clain，frrst Combining comp，, ，workeis as described，with
 1，781．－Charles Raymond，of Brattleboro＇，Vt．，for an Im－ provement in Sewing Machines
I claim the bearing off hook，g，when it is arranged in such a man
ner with relation to the looper， co－operate with each other int
tially in the manner sel firth．
1，783．－Edmund Russel，of Brooklyn，N．Y．，for an Im－ provement in Qucillating Steam Engines
I claim the spring， f ，applied as a means of connecting the cylinder
o he rame of the engio and allowing for the oscillation，in the man
ner
 1，784．－J．A．Sabbaton，of New York City，for an Im－ provement in Dry Cas Meters

 eat fited with as many portss as shere are chambers in in the meter，the Ialso llanim the combination or the said valve a ned valve seat with an
colosed iniet passage，a supplementary port in the valve seat，and a upplemenatry passage in inhe valve，subustantially as deseribed．
Inlso claim the cambination or the stems of the a It also claim the combination of the stems of the exible diaphragm 1，785．－B．Segnitz，of New York City，for an Improvement in Trachea Tubes：
I claim a trachea tube constructed with a central tube，$A$ ，curved
flaring dounle channeled terminus，, ，and an adjustable mouth piece
C，substantially as shown and described．
1，786．－Christian Sharps，of Philadelphia，Pa．，for an Im－ provement in Breech－loading Firearms
I caim the spring dog，$Q$ ，with its projections，q and $~^{\prime}$ ，in combina－
ion with the projection，$t$ ，of the guard lever， C ，when the said projec tion，＇${ }^{\prime}$＇，is situated in respect to the underside of the stock and the
1，787．－Daniel Sherwood，of Lowell，Mass．，for an Im－ proved Coffee Strainer
I claim the wire spring，C，formed as shown，and attached to the
trainer，A，for the purpose set forth．
The object of this invention is to attach to the mouth of the spout of a cofee potasmall straining cup for straining the co fee as it is
poured from the pot，said cup being so attached that it can be readily emoved and replaced at pleasure

1，788．－John Sims，of Boston，Mass．，for an Improvement in Seed Drills
I claim the arrangement of the fork， L ，slide， J ，rockshaft， F ，and
seed box， E ，in combination with a drili plow，
R ，for the purposes and substantially as described．
1，789．－H．R．Sloat，of Sloatsburg，N．Y．，for an Improve ment in Farm Gates：
for the purposembination of the devices described，as shown in Fig． 1 ，
tially as set forth． tially as set forth．
790．－B．C．Smith，of Burlington，N．J．，for an Improved
Railway ： Railway：
girder consisting or＇a broad plate wo or more cast iron girders，each Ilanges，b b，below，and a longitud waltrib，a，above，when the body ot
the girder is bedded on to，and the streng hening tall he girder is bedded on to，and the strenghening flanges into，the ails to tilt or to be displaced laterally or prevticanting all il iability of the a cheap and permanen
spikes，as set lorth．
1，791．－C．R．Soule，of Fairfield，Vt．，for an Improvement claim，first，In hay
ing the extremities of the teeth made or bent，substantially as shown ne teech from digging into the ground，all as set forth and preven Second，The movable or adjustable plate，$H$ ，having the shoulder or
catch，$h$ ，at its underside，in connection with the lever， of the adjustment of the rake teeth， D ，to a greater or less pitch or in－
clination，as may be required，and the facile liberation of the rake to
admit of its revolving as set torth clination，as may be required，and
admit of its revolving，as set torth
This invention relates to certain improvements in the wire tooth解的，and consists in the use of an adjustable catch，arranged to admit stances may require．The invention also consists in forming the rake eeth with bent lower terminals，or with balls or knobs，in such a way stubble，and perform their work very efliciently．］
1，792．－L．B．Southworth，of Deep River，Conn．，for anIm－



## proved Faucet：

## claim connecting the

on the collar $E$ ，which is sean andis connected which is screwed on the cyiinder，f．of the valve ond of shaft，by the fanch，$j$ and re
cess，$k$ ，when said collar is used in connection with the packing，$h$ ，se cess， K ，when said collar is used in connection with the
cured to cylinder， f ，and fitted between the cap， D ，and
jection，$\alpha$ ，of the tube， A ，substantially as described．
［This invention relates to that class of faucets or cocks in which the valve is operated by a screw．The object of the invention is to dispense with the use of a spring，and open and close the valve by the screw lone，and at the same time have the packing of the cap attached to the screw shaft or stem，so as to admit of the perfect working of the alve，
ap．］

1，794．－Wm．O．Stoddard，of Champaign，Ill．，for an Im proved Printer＇s Chase
Ilaim the application of the right and left screws working simul
aneously upon side sticks，and the side sticks interlocking as shown ． 1，795，－S．Sweeney and S．Parks，of Rome，N．Y．，for an
We claim in machines for double seaming sheet metal，the groove，$g$ ，
on the roller a，when the said grove terminates on its outer edge in
the elevated portionor inclined fiange，h，in combination with the con－ the elevated portionor inclined tiange，$h$ ，in con
ical roller，$b$ ，as and for the purpose set forth．
1，796．－N．G．Swift，of Hart＇s Village，N．Y．，for an Im
provement in Machines for Sowing Pulverulent Man I claim，first，The combination of the hopper，E，the roller or rolle＇s，
s．
slides， Second，suspending the hopper，$E$ ，to the axle，A，by means of the
hods，$F$ F and $H$ ，arrangedsubstantiallyas shown，whereby the wheels L，may be readily thrown in and out of gear，and the rollers，$J J$ ［This invention consists in the employment or use of a roller or roll wihh scrapers，as described，so that the discharge of the manure from he hopper may be regulated as desired，and the portions of manure which may adhere to the rollers be scraped off at such a point as not to affect the equal distribution of the manure over the field．］
1，797．－A．H．Trego，of Lambertville，N．J．，for an Im－ I claim the employment or use of a breech Horses ：
I claim the employment or use of a breeching，$B$ ，applied to a horse
in connection with bars，a a，or their equivalents，an upright or pulley in connection with bars，a a，or their equivalents，an upright or pulley
support，i，and a loaded cord，，and torked rod，v，so arrangee as to
admit of the pulleying or elevating of the horse＇s tail，substantially as
［This invention relates to an improved means for keeping the tail of being kept elevated a cestan period，permanently assume such posi tion． 1 lat
，798－A．K．Tupper，of Pontiac，Mich．，for an Improve－
ment in Gas Retorts ： ment in Gas Retorts
I claim the combination in the retort of the upright partition，a the
reversed inclined partitions，d d d d 2 ，on one side or a，and the cham
ber，B，without partitions on the opposite side of it，all substantiall ber， $\mathbf{B}$, without partitions on the opposite side of it，all substantially
specifed
1，799．－J．L．Vauclain，of Lafayette，Ind．，for an Improve ment in Car Axle Boxes
I claim the provision of a wedged formed cap，C D，and tapering
rooves， B ，to a car axle box，for the objects specified． ，800．－J．C．Wightman，of Boston，Mass．，＿f or Improvement in Gas Cocks
dersjoined together and with a communicating passage between cyem dersjomed together and with a communicating passage between them
one of said cylinders being furnished with an adiustable plunger of
， dispacer，and a mercurycup，by means of which the flow of gas
through the other may be regulated inguantity or entirely stopped，the
whole being constructed，arranged，and operating as set forth．
1，801．－J．B．Wilson，of Williamstown，N．J．，for an Im－ provement in Preserving Vessels．Ante－date June In， $1861:$
I claim the H, with its gum elastic ring，the bolt，J，with its
coss bar， K ，and nut， M ，and the yielding washer， L ，the whole being construucteed substantially as descri
mouth of the vessel as set forth．
1，802．－John Young，of West Galway，N．Y．，for an Im．
provement in Washing Machines：
I claim the rollers，D D，provided with elastic material，$g$ ，the spring
sots，$i$ ，and grooved or roughened elastic rollers，$I$ ，the whole con slots，$i$ ，and grooved or roughened elastic rollers，$I$ ，the whole con－
structed and operatingsubstantiallyas described，and for the purposes
specifed 1，803．－McClintock，Young，Jr．，of Frederick，Ma．，for an Improvement in Harvesters
I claim，first，Connecting the finger bar of a grass harvesting ma－
chine，to the main frame by means of a beam，F，linked or hinged to chine，the main frame by means of a beam，F，linked or hinged to
and drawn by，the tongue and prevente f romswaying laterally，by the
brace， c ，and main frame， D ，as set forth． I also claim，in combination with said beam，$F$ ，so hung and sup－
ported，a platform，rake，and rake mechansm，arranged and connected raking grain harvester，substantially as described．
I also claim making a cinger bar ilto two sections，one long one and
two one short one ；the short section being connected to the platform，and removable with it，so that as the platiorm is attached，to adapt the ma－
chine to harvesting gran，or removed to adapt tit the cuting of grass
the finger bar shain correspondingly lengthened and shortene，as has been found advant
stantially as described．
1，804．－C．C．Coe（assignor to himself and G．S．Cottman）， of Rome，N．Y．，for an Improvement in Vapor Lamps： First，I claim in combination with the pervious cylinder and wick
ube the gas generating pan or cup，substantially as described and for the purpose set forth．
second，Iclaim combining with the gas generating from the pervious
cylinder，burner，outer casing fender and passage ways，substantially aylinder，burner，outer casing fender and passage ways，substantially
as described and forthe purpuses set forth．
Third，I claim combining with the wick tube and cup the valve， as describe and claim combining wing with the wick tube
Third I
substantially as and for the purpose described．
1，805．－John Fowler，Jr．，of London，England，assignor to rland July 14 ， 1858 for an Improvement in Machinery for Plowing and Tilling Land I claim mounting on plows or other tilling instruments an apparatus
for taking up the slack rope by the pull of the rope drawing the plows
，806．－John Fowler，Jr．，of Ha vering，and Wm．Worby，of
Ipswich，England，assignor to W．P．Tatham，of Phil－ adelphia Pa Patra in England July 10 ， 856 for an Improvement in Machines for Tilling Land by Steam：
Icclaim mounting an anchoring carriage on disks or wheels suf．
ficiently thin at the periphery to cut or sink into the land，substantially
1，807．－Ch．Froelich（assignor to Phelan and Collender）， of New York City，for an Improvement in Tivol
I claim，first，the arrangement of the hinged levers，$H$ ，cyeraled fingers，$f$ ，and with the channels，$h^{\prime}$ a $b$ ，substantially as and for the
combination with the sniral channel，$M$ ，and with the chain，, ，al
onstructed and operating substantially as and for the purpose speci Third，The arrangrment of the sleeve，I，rod，$r^{\prime}$ ，plate，r，and rod，
fied in combination with the spring dogss，iand ${ }^{\prime}{ }^{\prime}$ chains，$G$ and ，and
with the hinged levers，$H$ ，constructed and operating substantially as with the hinged levers，$H$ ，con
and for the purpose described．
［This invention consists in the arrangement of an endess chain of ingers acting upon a number of balls，in combination with a series of channels above and below the perforated table，and with levers oper ted upon by bultons on the edge table，in such a manner that by suc oll on the table and to descend through one of the apertures in the top of said table，and through the channels or gutters under the table top， back to the starting point，while，at the same time，one of the balls re－ maining in the gutter below is taken up by one of the fingers，thereby enabling the player or players to proceed with the play without inter ruption；it consists further，in combining with the endless chain of ngers which throw the balls out upon the table，and with the appar atus for operating the same，a column having in its interior an addi－ ional endless chain of fingers opon a secondary number of balls，and eing provided with a spiralchannel extending from the top to the base of the column，in such a manner that，on depressing one of the buttons and simultaneously with the ball thrown out by the lower or main chain of fingers，one of the secondary balls is thrown out at the top of he columns and made to descend through the entire hight of the spiral channel，giving to the entire arrangement the appearance as if the balis thrown out at the top of the column were the same as those hrown out by the main chain of fingers，and，as if the same balls which descend through the spiral channel on the outside of the col－ mn ，also make a circuit on the table and disappear through one of the apertures in the top．$]$
1，808．－A．C．Stiles，of Bunker Hill，Wis．，assignor to him－
self and Amos Ewbanks，for an Improvement in Seed ing Machines
claim the arrangement of the adjustable curved segment bars or
hare carriers，$N \mathrm{~N}$, ，slides，$J$ ，lever frame，$K$ ，spring ratchet cylinder，
 ，the whole construcred and operating h，incolfes，as and for the pur－
pose show and described． ［This invention relates to that class of seeding machines which are esigned for sowing seed in hills，in check rows，and has for its object the preventing of the choking of the seed－distributing device，the per－ ect control over the operation thereof，so as to insure the seed being opped at suitable points．The invention also has for its object the ady adjustment of the furrow and covering shares as well as the opercompacting of the earth on theseed and the marking of the hills．］

Richoseph Reckendorfer，of New York City，and J．C．
Richards，of Brooklyn，N．Y．，for an Improved En－
velope ： velope ：
I claim the improved self．sealing enveiope looped and gummed in
he manner described，so as to possess the advantages set forth． re－ISSUES．
103．－P．S．Devlan，of Elizabethport，N．J．，for an Improve－ ment in Journal Boxes．Patented Sept．25， 1860 I claim the employmentof paper pulp or pulp made of any vegetable
rous material，to form the bearing surface of journal boxes，substan． fibrous material，
104．－P．S．Devlan，of Elizabethport，N．J．，for an Improve－ ment in Journal Boxes．Patented Sept．25， 1861 ： I claim forming the bearing surfaces of journal boxes of a composi－
tion of vegetable ibrous matter and fine earthy substance，substantial． lyas described
105．－A．M．Hall，of West Falmouth，Maine，assignor to J．

$$
\text { Mowing Machines. Patented Dec. 23, } 1856 \text { : }
$$

I claim，first，The combination with the heel of a fluger beam，so
connected or hinged to the main frame of a mowing naclink as that the entire bar can rise or fall，independent of the up．and．down mo－
tions of the main frame of a selfajusting，hinged plate，or auxitiary
shoe for the purposes of allowing the points of the guard tions of the main rrame of a seif－adusting hinged pate，or auximary
shone，for the purposee of allowing the points of the gards or fingers，
to freely adapt themselves to the charaeter of the ground over which
 stated．The cambination of the adjustable metallic plate， M ，with its
Third，
Th， $\mathbf{N}$ ，and otherwise constructed as described，with the heel of the finger beam and main trame，as set forth．
Fourth，The combiliation of the bent lev
chanism，and hinged oscil
I06．－W．A．Kirby，of Buffalo，N．Y．，and D．M．Osborne， said，for an Improvement in Harvesters．Patented November 15， 1859
We claim id combination with a cutting apparatus and a platform
having a side delivery，and both placed in rear or a line drawn through the front of the main wheel，the raker＇s sean tocated at the side of the
platform，and arranged so that the raker sits behind the main frame 107．Elisha Waters，of Troy，N．Y．，for an Improve
in Making Paper Boxes．Patented Feb．2， 1858 ： I claim annular boxes of paper board，constructed by cutting the
said board into strips or pieces tor the sides，and into parts for the top
and bottom thereof，forming the uprigh and bottom thereof，forming the upright angles or corner，one by one，
by pressing the said strips or pieces between male and female dies cor by pressing the said strips or pieces betwen ma le and female dies cor－
revpending to and with the angle or eorner to be turned or formed， repstantiaily as described and set for：h．
subcond，The tlanches， $\mathbf{B}$ and E ，forme Second．The thanches，$B$ and $E$ ，formed upon the sides，$A$ and $D$ ，by
pressing the paper board or strip＇herween ales，in proper form，thus
and thereby constructing said fianches to receive and combine the forth．aiso claim forming the corners of paper boxes by pressing the same between cold or
scribed and set forth．
108．－S．J．Seely（assignor to C．W．Durant），of New York ented April 24，1860．Re－issued Oct．2， 1860 ：
I claim，first，The application and use of corrugated metal plates to
and in the construction of rairoad cars and other vehicles，when the
said plates are applied and used in a single series or thickness with their corruations running horizontally，as set forth．
Second，The a pplication and une of corrugated metal plates to and for the purposes named，when two or more series or thicknesses of
plates are used，when the outer series of said plates has its corruga－
竍
 of the bodies of railroad cars and other vehicles，as set forth．
Fourth，The application ofthe said corrugated metal plates and angle
ing cot irons，combine
pose described．
72．－G．L．Kelty，of New Norigns． Window，for a Design for Shade Material

Elbctricity always takes the path of least resist． ance，and lightning seeks out its road to the earth ac－ cording to this law with mathematical precision．

