
issuled from the unithd stathes patent office for tur weiek exding may 29, 1860 .
[Reported Officially for the Scientifio dakbican.]
$\because$ Pamphlets giviug full particilars of the molle of anplying for
28,446.-H. W. Adams, of Brooklyn, N. Y., for an Improvement in Apparatuses for Distilling Coal Oils:
I claim, frast, The ure, in the distilltion of coal, shale and other
analog ous substances, to obtnIn the oil nnd other liquid products
 Becond, The cinstruction of a retort for distilliug ail and other horizonana or olightity-inclined form, with ndinf throuth it in a hori


 [This invention collsists in a certain conetriction of a ret ort and in certain impro vements in the apparatus for collecting and condenelng the products of distllation, whereby the distlllation of oil or other liquid products froin coal, shale or other anallogous substances may be pertormed on a very iarge scale, in a more convenient and economicul maunuer than lase hitherto been pricticed.]
28,447.-Wm. Adiumson, of Philadelphia, Pa., for an
Improvement in Machines for Picking Curled Hair
 or feed roller, or in
purpose eet forth.
[The object of this lavention is to obtuin a machine that will not while picking or loosening the flier of the Enme, in the procens of manufacture for upholstery purposes-a ressitt which occurs in a pose.]
28,448. -Luther Atwood, of New York City, for an Improvemeut in the Manufacture of Oils obtained from Coal:

 till:tions.
28,449.-G. W. Brown, of New York City, for an Improvement in Ice-cream Freczers:
I claim a cunical can in combination with a tapering dasher made
to correspond with the can, sulssantialily as described for the pur-
poses set fortli
28,450.-J. D. Brown, of Cincinnati, Ohio, for an Improvenient in Lanterns:
I claim the recessed forr, $\mathbf{B} \mathbf{C}$. formed with minute perforations
ovyr the entire surface of its upper portion, $\mathbf{B}$, aud the velticul sides,
 arraaged lia the inanner and for the purposes set forth.
28,451.-C. L. Carter and Elcazer Jones, of New York
City, for an Improve ment in Coffins:
 incombination with uncunnected nanle irons nnd with the second or 28,452.-J. N. Chamberlin, of Troy, N. Y., for an Improvement in Sewing Machines:
catchaim the construction arrangement and combination of the
cont
set forth.



28,453.-J. H. Clifton, of New Castle, Pa., for an Improvement in Looms:
I tlain, frat, The combination of the jack-hook lifer with an ad-



 arranged substantially as described, so that the distance between the
armao of the carrier may be varied to corrcopond with the dismnce
the shuttle is thrown in passing through webs of diff erent widthe, the shuttle is thrown in passing through webs of diff erent widths,
substantialir in the manaer deecribed.
Fourth The combination the tur with adjustable gulde rods for
the shuttile, so arranged that their diststre apart may be varied as


 28,454.-H. A. Clum, of Auburn, N. Y., for an Im-
provement in Barometers
I claim, frat, The movable sllides, $D$ and $F_{1}$ with moteorological
eading only, separate and detached from any graduations for verrier
pappose, for nummer and winter papooses, for aummer and winter purposes, substantially as shown



 aliso the movable cistero as fully represented in the dra wing.

 2diust ment, ns
tially set torth.
28,455.-L. O. Culvin, of Cincinnatus, N. Y., for an Improvement in Cow-milkers:

 above parts thus nirnnged are applied to a
deviee desectbed for the purposes set forth.
Second, The tear tuber fowhen mhic of conical form or taper
form longitudinaly, and of an elliptical form in their transerere

 CThis iuvention relates to certain improvements in that clites of cow-milkiug devices in which pump are arnployed for extracting
the milk. The object of the invention is to oltain a device wticl he milk. The object of the invention it to outain a device which
will have all it parts very acceevible for the pulpose of elcanlug, the implement permitted to be readily adjusted to cows of varying hights, and the device, ns a whole, rendered extremcly simple in coustruc lon und mient
28,45G.-H. II. Day, of New York City, for an ImI provement in the Manufacture of Elastic Cloth: Ioclaim the nect elinstic cloth described, conkisiting of the toeckine
 nanu facture.
28, 457.-James Deally, of Louisville, Ky., for an Improvement in Keys
I claim the
Iclaim the combination of the slide, $\mathbf{D}$, and ering, $\mathbf{F}$, with th
 uas-illl as bet furth.
28,458-T. W. Detray, of Montpelier, Vt., for an Improvement in Ferules:
Illimim the ferule degribed, when closed at one end, nod having
nn interior mrefl or projection combined with a wed ge projecthg in forth. fionit the closederd in the manner and for the purpose act 28,450--A. K. Eaton, of Brooklyn. N. Y., fo
provelncnt in Rendering Safes Firc-proof:
diim the use of pure alumina, or the eubstances from which it

28,460.-W. H. Elliott, of Plattsburgh, N. Y., for an Improvement in Repeating Fire-arms.
in relation to the fiame in combination with chambersber as pecififed thnoufh and lerf open at their rear end, and with a breech plate, as and forn the purpose ppecifed.

tached from a hammer, arranged as apecifice in relation to the
fame
Third . The arrangemen tof the head of the fiinn pin, $r$, in the
 to revolve the disk, as specified. mer,


 with a eeries of stationary bancels arranged around a common center

28,461 -W. H. Elliot, of Plattsburgh, N. Y., for an
Improvement in Repeating Fire-arms:
I chim, frat. The employment of a hnmmer arranged as apecifice nipple, nod in combination with clambers bored tirough at thicir ren


Third, The employment of a hammer arranged and operating a
set forth in comblination with a breech plate for resiiting the recoil
 Fourth, The combination of wedge or cam, $j$, with $\mathrm{fl} ; \mathrm{f}$, fur raieirg
the $h$.

28,462.-J. W. Evans, of Forsyth, Ga., for an In proved
Churn:
 28,463.-C. W. Felt, of Salem, Mass., for an Improved Machine for Settine Type:
I claim, dint, The general arrangement and organization of the their mechanical equivalente, bs meanion of kess or indicators so nr
 peasure to one or m
alenth as ent forth
Third, The combl










 28,464.-Charles Fricke, of Mobile, Ala, for an Improved Cement
I clain the described water-proof composition or mortar eement.
for laying brick, stone, der, conpounded substantilill as deescribed. 28,465.-R. J. Gating, of Indianapolis, Ind., for an Improvement in Machines for Breaking and Pullerizing the Soil:
I claim, frat, A rotary share frame provided with shares capable
being adjusted to vary the depth of their cut, as well as to eecar pass over obstructions that may be in their path, substantially a

 foroperation, and thereby allow the maclise to be readlly turued and ransported from place to place.
[The object of this
[The object of this invention is to obtain a simple, efficient and economical machine for breaking and pulverizing the soil, designed more especially for brenking pralrie lands and pulverizing the soll of cultivation of crops.] 28,466.
8, 466.-E. L. Gaylord, of Terrysville, Conn., for an Improvement in Attaching Bows to Keys:
I claim securing the bows, B, of kesy to their arbore, A, by means
of knobs or heade, , formed on the arbors, rrooved longitudinally or knobs or head, c, formed on the arbors, groved langirudinally
and diven snubly int ot eocket, 1 , of the bows-the parts of tho
bows at the ends of the socket being then unset to make the socket

28,467.-Albertus Geiger, of Dayton, Ohio, for an Improvement in Vapor Lamps.
I claim the combined arrangement of the vaporizing tube, $\mathbf{B}$, ae con
tructed, and the conducting or wick tube, $C$ together conatitution
 by whicla the globe-holder is rigidly secured for use as described.
28,468.-IV. A. Glidden and A. Starkweather, of A varetta, Wis., for an Improvement in Horse-powers
 28,469.-R. A. Goodenough, of Brooklyn, N. Y., for an Improvement in Horse-shoes:
I claim n shoc formorges and other hoofed auimale, havivg upon its
under side $n$ indented ridge, as described, perforated for the inser
ion of nails at the tim of the dioe, 28,470.-F. T. Grant, of Gardiner, Maine, for an Im provoment in Sliver Machines
I clam the combination of the feed rolls, $Q G$, operated by Forms,
I $I \mathrm{I}$, and cim, $\mathrm{L}_{4}$ or their eguivalenta, and pressure bars, $p \mathrm{p}$, for the
28,471.-S. S. Greene, of Rome, N. Y., for an Im provement in Shrinking Tire:
claim the arrangernent, as shown and dencribed, of the jointed
me, $\mathbf{C}$, jaws, $D$, rod, $J$, lever, $F$, and vise, $G$, for tho purpose set forth
(This invention consists in attaching pecuiiarly-ehaped clamping combining thed arms that are held by a curved guide rod, and in so so to claep the tire, and, at the same time, contract the tire whllo it is being held between thejawi of a vise to prevent it fromappriag. ing during the operatlon.]
28,472.-O. F. Grover, of Middletown, N. Y., and H L. Pelouse, of New York City, for a Tool for $\mathbf{M i}$ tering Printers' Rule
Wo claim the nttaching B eo A, as shoirn at E E, boas to accommo-
date the motions of the lever and cutter in their performane as date the motions of the ever and cutter in their performance, as sct
forth; the manner of anjusting $\mathbf{C}$; also, $F$, in comblation with $G$
for the purposes set forth
28,473.-Loren Hall, of Milford, Mass., for an Improved Cushion for Horses' Feet

## If claim nn clins

28,474.-Samuel Hall, of New York City, for an Im provement in Couplings for Shafting:
I claim the use or e mplosment of the crose key, W, in combination
with the longiitudinal
Keye,
$E$ being coupled within the bor or clutch coupling compoied of the
gection $A$ and $B$; the wholn being anranged and upelated as se forth nnd for the purpose epccifici.
28,475.-J. F. Holloway, of Saline Mines, Ill., for an Improved Steam Traction Engine:
I claim, first. The putting of the boiler, $C_{\text {, with }}$ within a diving wheel
or drum, $\mathbf{D}$, when placed upon friction wh eels or bearings withla or upon said drum substantially as described, bo that the wheel or drum shall revolve around the boiler.
Becond The inner shell, $\beta$ ', of the driving wheel or drum, $B$, in
combinatlon with the etationary head $M$, for the pur a tank, heater, condenser and jacket, substantially as described The object of this invention is to obtain a simple, economical and efficicat traction engine, chiefly Sorordinary use-sucb as the drawing of gang plows in the cu:tivation of land, or the hauling of
wagons over prairies and our common roads, and for like purposes.] 28,476.-C. L. Harding, of Winooski Falls, Vt., for an Improvement in Facilitating the Removal of Burrs from Wool:
I claim subjecting wool, prior to ito bring submilted to the picklige
combing and candigg operations or either of them, to a fufficien pressur between loaded rollers, or by means of ot ber contriv ancee.
to deatroy the fibroue character of he burra contained in th substan
tinily as and for the purpose degcribed.

27,477.-L. P. Harris, of Mansfield, Ohio, for an Im provement in Apparatuses for Clarifying and Evapprovement $\begin{gathered}\text { orating Saccharine Juices: }\end{gathered}$
I dialm, Arst, The double filter, when congtructed substantially at
deccrlage and ite comblnation with heating and cvaporating pans

28,478.-C. H. Hasker, of Portsmouth, V a., for an Improvement in Suspending Boats:
 pases set forth.
Becond, The roving of the one lowering and stopplng fall, q, into
the bite, of the other fall, whereby the owering of the boat is done
by

28,479.-S. I. Hayes, of Chicago, Ill., for an Improve
ment in Making Tube Joints:


28,480.-J. M. Heard, of Aberdeen, Miss., for an Improvement in Pessaries:
 terlior side retreatios up.
etantially ae described.
28,481.-Otıo Heinigke and Moritz Laemmel, of Bay Ridge, N. Y., for Mosaic Vencers:
We claim, firit. Thic within-degeribed method of producing mosnic


 crosas section of which repres
noon tic tener. or a portin of
and twit the purpose eptcified.

## nd'Tre the purpose specified.

[The object of this invention is to produce mosaic veneers, of any desired color, in a cheap and quick manner. This is accomplished by
forming from a plastic material a large number of small prismatic forming from a plastic material a large number of small prismatic to the picture to be produced, into large blocks, which are now cut up thaspersely int oa large number of veneers each of which shows the desired patterd.
28,482.-J. C. Henderson, of Albany, N. Y., for an Improvement in Stoves:
I claim the air apaces, fy for a deceending draf between the fuet hopper and combustion chaniber, said draft entering the combubtion descending draft keeps the hopper cool and eutcrs the combustion
chamberina heated state, us sprecifed.
I claim the combination of a hopper for feeding the fuel, with a
 cone, lo or contracted chamber
ducttoo combustion and rctili
fect combuation, as set forth.
28,483.-S. T. Holly, of Rockford, Ill., for an Improvement in Sceding Machines:
I claim the oblique supporting and driving wheels, B , applied to
the machine, and arranged to operate substuntinlly as nod for the purpose set forth.
[This invention relates to certain improvements in that clase of seeding machines which are deslgned for rlanting seedeither in
hills or drills. The invention consists, first, in the use of oblique hills or drills. The invens so arranged that the same are made to oupporting or driving wheele, so arrnaged ine seed nd wress the earth thereon in avery cfficient manacr and In certain modified ways, as the nature of the cose may require and in certain modified ways, as the nature of secer the specdy germination of the seed; second, in a secs distributing device, of novel conetruction, whercby the proper distrlbution of the seed is insured, and the clogging or choking of the distributing device effectually prevented.]
28,484.-Noble Hill, of Caton, N. Y., for an Improve-
ment in the Manufacture of Pil
I claim the new article of maunfacture described, constituting, $n$,
fabric of wool, hair or other fibers, interwoyen with a web of cloth, and troated whth one or more coats of elastic virnish, with nn extc:-
rior tintag attached theretu, subatantially in the nauner and for the rior lintag attached thereto sub
purpones anown and described.
28,485.-I: M. Hendricks, of Philadelphia, Pa., for an Improvement in Ricc-hullers



 and wound spirally around the surface of the e cyincer, when the

 poge set forth.
Sixth, The combination of the two screwe, revolving in opposite
directions, and arranged substantialls as described fur the purpuse of directions, and arrang
pearling the rice.
Seventh, The combination of buffalo hide, with the hair outivard, Seventh, The combination of anderiayer of curled hair, for the formation of a polishing
pad or urugh.
ighth, ighth, La combination with the polizhink pad or brush, constructed
as descrited I I claim a narroorv band of cloth or other matcrial, wound
spirally around the brush from end to end, and arranged so as to form a deprestion or groove in the surface of the brueh or pad, so as
to act an acrater mad assist the brush in conveying the tice thro ugh the machine.
28,486.-Wm. W. Hubbell, of Philadelphia, Pa., for an Improvement in Breech-loading Ordnance





 28,487.-Allen Hughes, of Gratiot, Ohio, for an Improvement in Cultivating Plows:
I claim the abovel cultivator described, capa be of both a laternl
and ai vertical ddjustment, when mide la the manner and by the ombined arrangement described and represcnted.
[This invention consists in pointing the front ends of the shanks to the cultivator in such a manner that the shovels may be raised or
depressed, and in fixing the ehovels in tbe shankscarrying them rigidly to the beame by sector bars having pins paseing through with the mode of attaching the shovel shanks, in making these beam adjustable in the central beam, so that they may be contracted or ex tended, and, with them, the shovels.]
28,488. -Liveras Hull, of Charlestown, Mass., for an Improved Ratan Machine:
 congisting of the actuator cam, S, and the slider, I, furnished with an
adjustable arm, $p ;$ the whole operating and being operated substan.


 either, to the Blaft, t, rubstantially as described, so na to be capable
of revolving thereon, and providing the same with devies for produling friction, so as to cause the shaft to revolve the cam when the
latter is not held or tnped by the lever catch and atop-cam, as dcscribed; such devices consieting or the coue, $u$, and literal motion me-
mechanicnl equivalents therefor.
I Also claim combining with the slider, $I$, of the lateral chanism, an arm, $\begin{aligned} & \text { n, and its adjustable devices, arranged to operate } \\ & \text { cubstantially in the manner and for the purvose as stated. }\end{aligned}$ eubstantially in the manner and for the puriose as stated.
I also claim the combination of levcra, $\mathbf{O}$ P R , and the
arranged and applied together to the rlider, I , and the elant of the
 tively to the knife and the set of drant rollers, $G$ G. 28,489.-J. B. Hyde, of Newark, N. J., for an ImSheathing Felt:
I claim the apron, F, the corpposition troughs, $F$ and 12 and 3 , the apparatue, K, arrang
the purpose set forth.
28,490.-John Johnson, of Naples, Ill., for an Improvement in Corn Planters:
I claim the combination with a divided frame, A B, of the adjuet-
anbe or extenion bar, J, jointed to the front part of the machine, and arradged in the manner and for the purposes ect forth.
[Thls invention consiets in a seed-droping
[Thls invention coneiets in a seed-dropping device arranged and constructed in a novel manner, whereby two rows of seed are deposited at one time and are brought so near the ground before thes with precieion and great regularits the win precieion and great regularits. The secd slide tormed in seed. Theshoes for opening the drills are constructed so as to open the earth, drep the seed and cover it: the shoes and seed tubes being both made in one piece, and the seed tubes form standards. It further cousists in dividing the frame of the machine-arranging the seed device on one frame, and the groored preseing wheels on the other-and connecting the two framestogether by a eliding coupling.] 28,491.-Ross Johnson, of Baltimore, Md., for an Improved Sash-fastencr:
I clalm the appliciction of the deacribed implement, c $j$ i, as a per
manent wiodow-sash fastener, in the manner set forth.
28,492.-Permin Kopfer, of Fond du Lac, Wis., for an Improvement in Cooling and Setting Tire
I claim the described cietcra and revolving platform, the former
be ing provided with a series of inclined planes, nad the latterwith
 ranged
cified.
28,493. - J. W. Leeds and Calvert Vainx, of New York City, for an Improved Stcam Heating Apparatus: or a grat portion of the bottom of a steam-henter, in numeroust of thin
 pipe or its enuivalent, substnntiall as described, ulereby an equa
ble difusion innny quantity, may be effected through the whole of
the heater, for the purpose specified.
28,494.-A. Leightheiser, of Reading, Pa., for an Improved Washing Machinc:
rms, constrat, The use of two rubber disks, with radially curved Second, I claim the center piece, J, furniehed with hinged eemi-
circular 1 , circular lids, turn latches, M, radially curved rubbers, $\mathbf{E}$ K, brace, $\mathbf{B}$,
and hand cranks, $\mathbf{F}$, H; the whole arranged and oombined for the
purpoees as set forth. 28,
28,495.-John Lovatt, of Newark, N. J., for an ImI claim thement in Skates:
I claim the combination of the movabie $\nabla$-sloted blocks, E E', with 28,496.-Ed 496.-Edwin May, of Indianapolis, Ind., for an Im-
provement in Window Grating provement in Window Grating for Prisons:
I claim, first, The plating of tubular iron, the tubes croseing each
other at tight angle, subsiantially as and for the purpoese get forth.
Second The bolting together of right angle tubes with the doveSecond, The bolting together of right angle tubes with the dove ation with the do vetail rivet. H, when aill theee parta, ind canting
cntredt
cion are used for the purposes described in the foregoing specifica-
28,497.-John Mills, Jr., of Quincy, Ill., for an Improvement in Hemp Brakes
I claim the rotnry clea:ling and beating beater, F', arranged ove
beater, $\mathbf{E}$, when the same has also imparted to it a vibratory motion
 able machinery, wherebs a beating, and, a
motion is given to the hemi, as set forth.
[This invention consits in arranging in frontof suitable feed break rollers, two beating or cleaning cylinders, one placed above the other lower one) having a the epeed of which is greater than that of tb the motions of the four cylinders are to be in such relation to each other that the hemp will be drawn out and kept straight to give th upper cicaning wheel a more efficient blow and to prevent the hemp from tangling. All $t$ e shaves are thus removed, and the perfect operation ulon the boanp, before it leaves the machine, 18 insured.]
28,498. -J. C. Moore, of Peoria, Ill., for an Improve ment in Corn Planters:
I claim the combination of the jointed ber with the operating enm
and spring, arranged eubetantially as deacribed, so that by bending
 rested.
28,499.-Wm. P. Parrott, of Boston, Mass., for an Improvement in Machines for Crushing Mineral Ores

 hir arranged tat by the conjolnt action of gravity and a blast o
air, the mineral matters may be separated tom the refue ore the air, the mineral matters ma
whoole beinR for crashing or
subestanial!y as specified.
I niso claim may be adjuated at any desitable angl of conduit and separnto
to the horizon 1 also claim eo combintng the rotary serv case, b3, with the fan-
blast or bloorer eed, anis the conduit, k, provided with a that the air blown through the conduit elall first bo made to pape
throunh the rotary sicve, substantially in manner and for the pur-
pose as described.
I aleo claim combining a regulating air-hole, c9, and plus, or ite
equivatent, with the ase, b, of the rotary ecreon, $\mathbf{B}_{\text {; and }}$ and


28,500.-O. J. Pcnnell, of Williamsport, Pa., for an Improvement in Apparatuses for Renovating
 alr-henting device apylien to the hollow rotating beater shan, $H$, of a
feather receptacle, $H$, sulvitiuntially as and for the purpose described. [The object of this invention is to obtain a device by which old geese feathers may be perfectly cleansed and renovated, so as to be equal to new oncs, both as regards'app arance and use. Theinvention congists in the use of a etcam bofler, in connection with an airheating device, applied to a hollow shaf, provided with radial arms, perforated at their eads, and placed willin a cylindrical box which has ventilating openings provided with laps or doors, all being ao dried rapidl to heathrs, aner belag thoroughy elcamed, may be which they are steamed, thus causing the cleanoing and drring to be which they are steamed, thus causiag the
28,501.-Hcnry Powelson, of New Brunswick, N. J.,
for a Firc-escapc:
I claim, first, The arpangement, on the top or in one of the upper
stories of a building, of the eliding platiorm, $\mathbf{A}$, in combination with


 forth, for the purpose of enabling the inmateso A , subse ho
the apparatus from the several stories of the building.
[This invention consists in arrnaging, on the top of a building, standing plat form, in combination vith a rising and falling car and witn suitable chains or ropee, in such a manner that, by pulling one of the cnains, the platform, together with the car, is brought to the edge of the building, and the rope which controls the motion of the car iodropped where it can be reached from any of the windows situated in the same vertical plane of the car or from the street, for the purpose of enabling perans to escape fromany story of a building If every way of egress is cut off by fire.]
28,502.-G. W. Rains, of Ncwburgh, N. Y., for an Improvement in Governors for Stcam Engines:
I claim the employment, in combination with a wheel, $L$, having
teeth on a portion only of its cercumference, applied in connection with thic regulating valve, subetantially as described, of two teeth or sets of te
Governor
specificd.
28,503.-T. S. Ray and A. C. Rand, of Buffalo, N. Y. for an Inprovement in Vapor Lamps:
 cuin, and and sped and operating substantially as set forth.
rang constructed, ar
28,504. -G. W. Richardson, of Ncw York City, for an Improved Steam Heating Apparatus for Warming Buildings:
An ascending atcam pipe with eiph ons, constructed and arranged
su bstantinlly as deecribed, and with ra diators, to which is connected $a$ acsending water pipe, ihe whole forining a continuous open circuil
betwe
 radiating hent into apartments; second, siphons, constructed and ar
rañcd cubstantials nas described, and max ing connection between the aecending stcamp pipes and the coils; and tblrd, ascending erteam
pipes and deecending water pipen, each varying in area, substantially 28,505.-D. F. Savage, of Boston, Mass., for an Im provement in Dumb-bells:
I claim making the balls of a dumb-beil in hollow or solid teetions 28,506. Wm. Scarlett, of Aurora, IIl., for an Improve ment in Skates:
I claim combining the central stiffening bar or plate, D, with the
two sheet metal halver, A, in the manner and for the purpose shown
nd described. two sheet met
and described.
This luvention consists in forming the st $k$ or foot-stand with the heel-pin for preventing the foot from moving while on the foot-stand and the elots und pins for holding the straps, and lastly, the runner or skate-iron, all with three pieces of suitable metal struck out into the desired shape, bent up and riveted together, so as to forn, when put together, a perfect skate, with a groove or channel in the runne

28,507.-H. H. Scoville, of Syracuse, N. Y. for an Im proved Machine for making Moldboards for Plows: I claim the use of a conical forming block for shaping moldboard

of plows when the same is so arranged with the pressure roller, con| $\begin{array}{l}\text { structed eubstantingly } \\ \text { the manner set forth. }\end{array}$ |
| :--- |

28,508. -Frederick Shuttee, of Philadelphia, Pa., for an proved Machinc for Cutting Saw Teeth
I claim the two revnlving dies, composed of the disks, $m$ and $n$, and baving permnnent nnguir projectionand receeseen, the projections o
one die being adapted to and genring into the recesses of the othe die, as and for the purpose set forth. 28,509.-Reuben Shaler, of Madison, Conn., for an Innprovement in Wheel Skates:
I claim the skate described, which, in the place of the ordinary
unner, is provided with rollere, the pe iphery of which is made elas. 28,510.-J. E. Shields, of Washington, D. C., for an Improved Butt Hinge ${ }^{-}$
I claim the side projoction, Co, on the connecting pin, in combination
with the elotted ends of the eegments, a, and anities, i, in the
leaves, arranged and operating eubstantially as and for the purposes leaves, arr
set forth.
28,511.-H. K. Smith, of Philadelphia, Pa., for an Improved Sash-supporter for Car Windows: I claim the combination, with the window of a railro d car, of the 28,512.-S. P. Smith, of Troy, N. Y., for an Improvement in Car Wheels:

 Second, I also claim inclosing the elastic packtag, $r$. When placed
bet ween the tightening de vico of the holding bolt and the body of the
 packe packing can be squeezede or worked out of place, nor pressed in
of inctact with the holding bolk.
27,513.-Thos. Spencer, of Syracuse, N. Y., for an Improvement in the Manufacture of Common Salt:
I claim combining the ceqticonate or bi-carbonate of ooda with
common aalt, substantialls ee and for the purposes set forth.

28,514.-H. J. Spiller, of Cincinnati, Ohio, for Improved Roller Boxes for Printers

 28,515.-Canceled.
28,516.-Lemucl Stephens, of Philadelpha, Pa., for an Improvemert in Fertilizers:
I claim, as an imp ioved article of manufucture, the " Phuine,"
made eubetantiall 9 as set forth.

## TThis compoaltion is a very che

trcesofulls uned as a substitute for and effective fertilizer, and it io are so comblned that the fertilizing qualities of the animal matter are retained and concentrated, and at the same time the animal matter io rendered mor boluble and active.]
28,517.-Lee Swearingen, of Valley River Falls, Va. for a $n$ Improvement in Cars for Transporting Cattle, \&c.:

野e et forth.
28,518.-Wm. Tansley, of Salisbury Center, N. Y., for an Improvement in Bark Mills:
I claim. frrst, The fonning of the conical head, $\mathbf{C}$, and rims, $\mathbf{D F}$

## 

Third The crushing teeth $f R$, tormed


## opectively, on the rim, $D$, and conical head, C , as and for the pur; i , se gpecifed


28,519.-J. R. Thomas, of Williamsburgh, N. Y., for an Improvemant in the Mode of Securing Lids on Gas Retorts:
 swung borizontally and alibo
purpoee ebown and deecribed.
[This invention consiets in having a bar or bold-fast provided a one end with a socket, which is fitted on a pintle attached to the frou of the retortat one side, the opposite end of the bar being fitted in a
lock atteched to the opposite end side of the retort, tho bur or hold lock attached to the opposite end side of the retort, the bar or hold-
fast having an eccentric connected to it at its center, and all so arfast having an eccentric connected to it at its center, and ail bo ar-
ranged as to forma simple and efficient fastening, and one that may ranged as to form a simple and efficient fastening, and one that ma
be very readily manipulated for the purpose of secaring the lid to be very readily manipulated for the purpose of secaring the lid to
the retort and detaching it therefiom without the possibiity of one the retort and detaching it therefriom without the possibiity yof one
faetening interfering with the others in the same "bank" or furnace, each being allowed to be manipulated without being ebsinucted bythe othera]
28,519.-John Thompson, of East Boston, Mass., for an Improvement in Locomotive Boilcrs:


28, 521.-Thomas Towndrow, of New York City, for aa Improvement in Book-binding:

28,522.-J. G. Trendwell, of Albany, N. Y., for an Improvemont in Stoves:

 forated nir-chamber at
the purpose specificd.
28, 523.-R. P. Van Horne, of Gratiot, Ohio, for an Improvement in Cultivators:
I claim the arrangemencon of the plati, A, draught bar, B, tooth or
share baren
purpond



## specified

[The ob ject of this invention is to obtain a simple and cheap implement which may be readily adapted tor the various kinds of work required in the cultivation of different cropg, such as the eradi-
cating of weeds, the pulverizing of the eoil, and the plowing of the cating of weeds, the pulverizing of the eoil, and the plowing of the
growing planta. The invention consists in a novel arrangement of growing plants. The invention consists in a novel arrangement of
tooth barsatteched to p plate, the Litter bcing conncected to vided with adjuetable wheels, whereby the deaired eud is attained.]
28,524.-J. H. G. D. Wagner, of Paris, France, for an Improved Filtering Apparatus:




 substintibit, As and tor the purposes get forthe

28,525.-Albin Warth, of New York City, for an Im proved Firc-escape:
I Itrim. frrst, The arrangement of a tubc, A or $\Lambda^{\prime}$, substantallay as


 28,526.-Maximilian Wappich, of Sacramento, Cal for an Improved Water Elevator:



Third, The arrangement of means for suspending the upper cod or
the eievitor set forth. Fourth, The ring, e' and the means connected with it for packing
and buiding the lower 'end of the cylinder, as deseribed. Fifth, The fr
28,527.-J. B. Winslow, of Charlestown, Mass;, for an Improved Machine for Cutting Moldinys:
I chim, firigt, The combined nction of the canis or cuides, r , ajd the

 Third, I claim the connecting nods or wires, 15 , or cileir equiva
enta, arranged in the machinc substantially as descibel, whereb

28,528.-D. M. Woodin, of Brandon, Wis., for an ImprovedChurn:


 dill a speciticd.
28,529.-S. W. Woodward, of Buffalo, N. Y., for an Improved Washing Machine:
 liothee-the whole being con etructed, urrunged and operated is th
minner and for the purpose set firth. Sisk, F, substantially as eet forth.
28,530.-W. C. Allison (assignor to Allison \& Murphy), of Philadelphia, Pil., for an Improvement in City Railroad Cars:
 anged on and combined with the arched rouf of a railroad cur in th

28
28,531-W. A. Bacon (assignor to himself and M. V
Reynolds), of Campello, Mass., for an Improved
Machiue for Skiving Counters for Boots and Shoca
 28,532.-Albert Broughton (assignor to himself, Alcx ander Lindsay and J. R. Platt),of New York City for an Improvement in Machinery for Grinding and Polishing Glass:

 ment of the traveling bed-arranged and onerating in the mann 28,533.-L. S. Chichester (assignor to F. S. Cabot),

New York City, for an Improvement in Filters:
I clam the combination, in the manner shown and descoibed, of
 water may be obta
[The object of this invention is to obtain a portable, simple an
efficient filter, by which either filtered or unfiltered water anent filer, by which either filtered or unillered water may b dran ab required, by a very simple ad juetment. For instance, whe lered water is required, for drinking or other purposes, water rater is pase throngh the filering medium, and when unfitered to pass unobstructed and quickly through the filter case, therob bviating, when not necessary, the comparatively-Elow flow of the vatcr caused by the obstruction of the
28,534.-G. P. Dance (assignor to himself, J. H. Danc
and D. E. Dance), of Columbia, Texas, for an Im
provement in Hanging Millstones:
 in the ppindle-the latter pasing through the taper
driver, substantialls as and for the purpose set forth.
[The object of this in vention is to hang, by a very simple means, the runner of a pair of millstones in such a manner that it may, as it paralleliem of the faces of the two stones be preserved whether the tationary one be perfectly horizontal or not.]
28,535.-T. G. Harold, (assignor to himself and James
H. Harold), of Brooklyn, N. Y., for an Improve
ent in Guards for Key-holes:
It claim the blockine-plece, n, fitted on the bar, $b$, in combination veits the piece, a, being turned, or picks entered into the key hole
as Bet forth.
28,536.-S. W. Lowe (assignor to himself, C. Wirgman and D. S. Juhnson), of Philadelphia, Pa., for an Improvement in Vapor Lamps:
I claim the woven wire bag or case, $\mathbf{B}$, the Gibrous packing, $D_{\text {, }}$
and the wick,' $\mathbf{C}$, when the same ara arranged and combined gether in a lamp, substantially as, and for the purpose set forth and
descibed. 28,537.-S. E. Pettee (assignor to the North-A merican

Paper Bag and Envclope Manufacturing Company)
of Philadelphia, Pa., for an Improved Paper Bag Machine:
I claim, Firts,
paste docating the rotating paster, Fr, so as to npply the edge of the paper, in forming the tube as set forth.
Second, Giving to the paster, Fi, a velocit y correspondigg with that
of the edge of the paper on whicl it appliae the ppast ory mean of the ratch iet arrangement, operated as cescribed, and fof the pur puac
Third The elide, Q2, ennatructed and operating subetuntially a
and for he purpose epecificd.
Fourth, Feeding the tube of pack to the knife br the alternatin
 Fifh, The clamps, V V1 V 2, countructed as aet forth, and opera-
tine the by darts:ad doge as dexeribed.
Sixth, Folder and paster, Il, conetructed and operating subetantlal Sixth, Forner and paster,
in the manner etted.
seventh, In combination with the paner-bag machinery, attaching the connecting rods which opcrate the sliides and clampss io oppmitite
crink centrrs. to secure a continuoua fed of the tubing to the knife, as described innl slown.
Fir hth, null fnollis. I clain the general arrangement of the par of the nunchine deserll, it, for performing the variousopertlonio
making the bage, in the order nof manuerset forth and shown. 28,538.-Hamilton Ruddick (assignor to himself an

Jonathan Pierce), of Boston, Mass., for an Improvement in Seiving Machines



28,539.-Thomas Shaw (assignor to himself and L. N. Brognard), of Philadelphia, Pa., for an Improve mene in Furnaces for Burning Coal Oi or other Hydro-carbon Fluids under Steam Gencrators: I claim the conveying of ignitable fluids to the interior of the fire.
chamber, by means of a pipe surrounded by water within the boiler, ubstnatianlily as aud for the purpose set forth
I claim saturating the
I claim saturating the air with vapors of $n$ fluid, by means of the
per forated tule in, and its box, $h$, when airrauged ia respect to the
 28,540.-G. E. Vanderburgh of Mamoraneck, N. Y. assignor to the Lıquid Quartz Company, of New York City, for an Improvement in Preparation of Soluble Silicates:
I claim reducing sillclous substance. $t$ a a liquid state by frst in-
corporating there with a small moportion of some alksine subetanco

orth.
8,541.-G. E. Vanderburgh, of Mamaraneck, N. Y., assignor to the Liquid Quartz Company, of Ncw York City, for an Improvement in Silicated Cements:
Ict forth. ${ }^{\text {a }}$ ailicious cement prepared substantially in the, manner 28.542.-Eldridge Weber, of Gardiner; Maine, assignor N. B. Starbuck and G. H. Starbuck, of Troy, N. Y., for an Improved Marine Propeller.
 shan on oppoeite sides of a phane throuph gaid a a is. and altogether
for ward of the rear cxtremity of the hub, Eubta ntially os aet forth. 28,543.-George Nock, of Pittsburgh, Pa., assignor to provement in Desulphurizing Coke.
I claim the use of a mixture of an oxy dizing agent, buch as peroxide of manganese, nitrate of potash, or other substanee, which yield
oxygen, at an elcvated temperat ure in contact with cusbon, with ail aqueous aolution of chloride of sodium, or other allealize chiloride, or
chloride of an alkaline earth, in the process of desulphurizing cokt; in Ane manner debcribed.
Alao, The use of a mixture of peroxide of manganese or other pub. vith carbon and colophony, (or rosin), or othereasily combuatible eub-
sitance, with nu aquo
and solution of chloride of odium, (common stance, with an aqua ous solution of chloride of sodium, (commen
sale), or other allaline chlorde or eale of an alknine carth, for the
purpore of desulphurizing coke, in the manner described. C. E Bertrand RE-ISSUES.
provement in Sugar Mold Carriages. Patented March 30, 1858 :
I claim, first, The construction and arrangement of carringes for eseantialls, in the combination of a platiorm provided with a nuitable
train of wheels, of small diameter, for vertically supporting the molds, with a series of semi-circular braces, or their equivalents and
zuard chains orbars, for Laterally holdiug taid moulds substantially set forth, In sugar mold carriages, constructed a described with a brace plate arranged ata higher te vel relutively tothe patform, I claim
ine two wheeps running onor with one or two alep ived to the plat-
 which io made to bear agningt the said brace plate, whereby the car-
riace may be moved about with greater faclity thap this las ever
brin done heretofore. Third. The comble.
indian and armangement of statlonary pins and
and
 sind mave their driy holes closed by their
the manner will for the purposes apecified
 sugarmold cartiages ne shown, and deecribed, so ns to
stantilly in the manner and for the purposes set forth.
W. F. Shaw, of Boston, Mass., for an Pmproved Apparatus for Heating or Cooking by Gas. Patented, Nov. 4, 1856:
 In
forth forthep urpuse afreific d.
inge the fue space, $X$ around the chamber, H2, with its openings, Y and Z, operating ne an air-henter whrn the oven is in place
and as a parage fr the eecape of the gasca when other utenails are
employed, as get fortb. Chavity additional improvement.
Charity Pendleton, of Galena, Ill., for an Improved
Washing Machine. Patented July 12 1859: Washing Machine. Patented July 12, 1859 ::
I claim the arrangement described of the bars 1, 2, 3 and 4, and the
particular parts of the clothing with greater facility in Ruch a man-
$n=r$ :a to concentrate the actinn of the rubber upon them, whilc at


## Extension.

T. W. Harver, late of New York City, (H. A. Harvey, Administratrix), for an Improvement in Machinery
or Manufacturing Wood Screws. Patented May
30, 1846. Re-issued Dec. 28, 1858:
I claim, first, The combination and arrangement of two inclined rollerb, one or both rotating and placed nt a sufficient distance apart
to permit the banke of the bonnke to hang therein frely suppended
by tbelr heads, subutaintially as deacribed, and for the purpoee of
 lower cnd, and to be delivered one by one as ret forth.
Second, Combinin $\Rightarrow$ with the delivery ond of to
 deilver them one by one, and conduct them to the wape where they
are required for afer operations, and at the periods ryquired as set
forth.


 menns for holding the screw blan ka in line substantinity as described,
a E Eiding turn screw nnd apring or equivalent therefor, substantially as deereribed narl for the purposes ne get forth.
Fifth, Governing the motions of the chaser toward and from the
 necting one end of the sway bir with an adjusting gilite, when this is
combined with the chaner, or chaser head ns degribed, whereby the
nmount of taper to be given to the screw can be regulated at





