ISSUED FROM THE UNITED STATES PATENT OFFICE for the week ending february 19, 1861.

## Reportud Odioically for the Scientific American. <br> ${ }^{*}{ }^{*}$ * Pamphlets giving full particulars of the mode of applying for  <br> 428.- Rufus Anson, of New York City, for an Improvemen in Baths for Toning Photographic Pictures: <br>  <br> 429.-J. M. Bacon, of Ripon, Wis., for an Improvement in Seeding Machines : <br>   forth

## 430.-Louis Ballman, of Boston, Mass., for an Improvement

 in Sewing Machines:
 ation being substantially such as described. bobbin and a bobbin case or
Ant $I$ also claim, in compination with a
shtle
 nd through the eye shall in its transit slide over the equalizing curve,
he combination being substantially such as before recited to produce
431.-Hiram Barber, of Milpitas, Cal., for an Improvement
 G, and plates
pose specitied.
[This invention relates to an improvement in that class of gates which re constructed and arranged with a view to admit of being opened and losed by a person in a vehicle or by a rider on horseback. The inven tion consists in the employment or use of adjustable guide rails on
which the gate works in connection with springs and guides, whereby he gate when either in an oures, wher mo move by its own gravity in connection with an impetus given it by prings, and the gate opened and closed by simply actuating lever hich may bedoe by the river of vehicle or a rider on horseber
432.-Franklin Bisbee, of Scituate, Mass., for an Improvement in Masons' Trowels:
I clam the ferrule shaped and operating substantially as set forth,
when combined with the handle and offiet shank of a masou's trowel or
other tool other tool.
433.-Josiah Bishop, of Austin, Texas, for an Improvemen in Machines for Extracting Cotton and Corn Stalks: I claim the fingers, h k, either or both sets or series, when connected
to a mounted frame, A, and operated by the ravaghtmmovement of the
same, substantially as shown, so as to have a backward and forward same, substantially as shown, so as to have a backward and forward
movement, and also an upward and downward movement, for the pur-

I also claim, in combination with the fingers, $h \mathrm{k}$, either or both set or series, the cleaning bar, K , arranged
operate as and for the purpose specified.
TThe object of this invention is to obtain a simple and efficient machine for expeditiously eradicating or pulling up by the roots cotton and
corn stalks, so as to render the soil free lrom stumps which are left by the usual process of cutting, and capable of being properly prepared for a succeeding crop. An engraving of this invention will soon appear n our columns.]
434.-Douglas Bly, of Rochester, N. Y., for an Improvement in Artificial Legs ankle, with the recess, $G$, in the foot for the reception the leg at the combined and arranged with a ajini learint having a unversal motion I also claim the stop or propection, m , when combined with a corre-
sponding recess in the shell of H , substantially in the manner and for
he purpose set forth.
435.-J. M. Brahn, of Red Bank, N. J., for an Improvement in Railroad Switches


[This invention relates to a novel improvement for automatically operating the switch rails of a permanent railroad, so that as the train of cars approaches the switch in either direction certain appliances on the locomotive will operate the switch rail, and switch the cars on the de
sired track, where the switch rails will be securely locked and held in the desired position]
436.-Salem Copeland, of Worcester, Mass., for an Improvement in Guards or Fingers for Reaping and Mowing Machines:
I claim, ists. Sliding the steel plate or face of a cast or malleable iron
guard under cirtiici projections on the body of the guard, substantialy as and for the purposes set forth.
Second, I claim the compination of the curved and beveled projec-
tions, e, on the steel plate, with the curved projection, c c, on the
body of the guard, substantially as and for the purposes stated.
 437.-Joseph Cragg, of Baltimore, Md., and Samuel Archbold, of Washington, D. C., for an Improved Surface Condenser for Steam Engines, \&c.:

## I claim, first, Theform and general arrangement in marked E, with the steam and water passages. fecor; The mode of making a water and steam.

the casinc and Ehine plates.
Trird, The
mote of arranging the sptye plates for the purpose of ob.


## 438.-W. W. Cumberland, of Newark, N. J., for an Im

 Hroverrent in Hat Blocks:I enimu, first, The fastenings, $G H$ and $J$ attached to the sides of the
center piece, $A^{\prime}$ in combination with the fastenings $G^{\prime} H^{\prime} I^{\prime}$ and $J^{\prime}$

 rroves, so as to wedge the fastenings attached to the center pieee on
three sides, and wedge the piece of the block together and insure the
proper position of the several parts of the block with regard to each
ther, substantiall
 I claim the arrangement of one or more spring catches, having thei
upper ends bent back into the finger space, and so rhistol that he
springs will be relieved from their corresponding netc.ivin in the side
preces by grasping the upper ends of the springs when the center piece peeces by grasping the upper ends of the springs when the center siec
is graspea, so that one or more of the spring catches can bereleased b
the same hand of the workman that is used to withdraw is grasped so that one or more of the spring catches can ber eleased by
the same hand of the workman that is used to withdraw the cente
piece while his other hand can be used to hold down the outside piece
of the block when he is withdrawing the center
of the block when he is withdrawing the center piece.
Third, In combination with the metal fastenings attached to the sides
of the pieces I claim preventing the point of the downward prie.
tions, the of the fastenmgs ettached to the center plece from "earing
away the sides of the grooves in the blocks (when tormed of wood) w):I

rastennigg in the grooves and secured in the woon in the situm of the
grooves, the smooth nek of which shanl enter the slot and fit it on the
the two sides when the parts are in proper position, substantially as
described and for the purpose set forth.
439.-C. H. Denison, of Brattleboro, Vt., for an Improved Felloe Machine :
I claim, first, The adiustable plates, n $p$, provided with the pins, o a,
when used in connection with the plate, $G$, and cutter head, $F$, as and for the purpose set forth.
Second, The conbination of the adjustable semi-circular bed or bear.
ing piece, I, and yielding bar, $J$, with the cutter head, $F$, plate, $G$, and ing piece, $I$, and yielding bar, J, with the cutter head, $F$, plate, $G$, and
bars, $p$, provided with the pins o a all being arranged for joint
operation as and for the purpose set forth. [The object of this invention is to obtain a machine by which the mer sides of felloes forwheels may be very expeditiously rounded and the work done in a proper manner, both the sawed and the steamed
and bent felloes being operated upon with equal facility. See engraving on page 353, Vol. IIP, of tbe Scientific American.]
440. M. F. Dodge and W. S. Dodge, of West Cambridge Pictures by Artificial Light :
We claim the combining with an artificial light, and one or more
series of rettectors, of an intercepting medium or plate, when so ar ranged with respect to the object and the light and retlectors as to inter-
cept or soften the dazzing ray rom the tight, and allow the un-
obstructed rays to pass from the light upon the reflector and thence pon the sitter, substantially as described.
Iectors together, so that the side refiectors of the upper their reflected rays upon the object, while the upper refectorars cts not their reflected rays
upon it by the light upon the object, but also throws upon the object the
41.-Richard Donaldson, of Mount Nebo, Pa., for an Im-
provement in Lime Kilns :
I claim the arrangement of the conic cooler, $F$, with its rim or
flange f, givide rods, h, bladed levers, $L$, and lid, i, in
with the kiln, the whole constructed and operating in the manner and
442.-H. C. Drew, of Stockbridge, Mieh., for an Improve ment in Capstans for Plows:
I claim the arrangement of the spring rack, $G$, with the blank-sided
divivig gear whel. D, pinions, E E, and drivers, $F F$, all as shown and
described for the purpose set forth. rThis in the purpose set forth.
wo or more drums or capstans, around which the chains pass that connect with the grabber, with pinion spur wheel and a large spur wheel, with the teeth on the latter extending only part of the way around its circumference, the whole being arranged in such a relation to the draught pole, to which the animals are attached, that they will not be compelled to walk over a tight chain, but so that the large spur
443.-Peter Dunwald, of Corning, N. Y., for an Improved Churn:
I claim the axis, $c$ provided with the washer, 6 , kept to the end of
the pape,, , by a spring. , said axis, $c$, screwing into the socket, 4 , on
the aasher, b, as and for the purposes set forth.
444.-B. H. Elmore, of Richmond, Ind., for an Improvement in Corn Planters
I claim the combination of slides, U and $W$, and spring vaive, $\mathbf{V}$, with
stran, S, shide, $O$, cam, N, shaft, J, and wheel, HI
constructed and operated substantially as set forth.
445.-S. T. Field, of Worcester, Mass., for an Improved Piping:
I claim the mode or process described of manufacturing wooden
eave troughs and material for tubular conductors at one and the saine eave trough and material for tubular conduct
operation, and from the same stick of timber.
446.-A. L. Fleury, of Philadelphia, Pa., for an Improvement in Tools Used in the Manufacture of Iron :

## I claima hollow stirring tool, A, provided with a removable cat and otherwise constructed substantially as shown and described.

[This invention consists in a tovi for the introduction of salts or other solid substances, or liquid or gaseous matters, among the iron or ore in a puddling or other furnace or fire used in the manufacture of iron.]
447.-L. P. Garner, of Ashland, Pa., for an Improved Machine for Breaking Coal
tother cylinder or roll, H, the whole constructed and operating as de-
scribed, for the purpose set torth. 448.-J. K. Gingrich, of North Annville, Pa., for an Improvement in Plows

[This invention and improvement in plows consists in a novel mode of forming and putting together the several parts composing the bods of the plow, whereby the front cutting edge of the landside may be removed and reversed when an edge becomes worn out, and this cutter with the landside wing, may be attached to the moldboard without
using bolts, pins or screws. It also consists in a novel means of trans. ferring the praught from the front end of the beam to the back pas erring the draught from the front end of the beam to the back par this point and giving to it a yielding motion. It further consists in the euployment of a self-cleaning device for preyenting the pow for clogging with weeds, \&ceaning device for preventing the plow from the beam.]
449.-R. Goldenblum and F. Steiner, of East Hampton Mass., for an Improvement in Compositions for Water proofing Leather
We claim the composition made of gish oil, india-rubber dissolved in
spirits of turpentine, pertoleum, rosin, pitch, beeswax, tallow, common
[The object of this invention is to produce a composition which, when applied to leather, will preserve the same, and at the same time make
it perfectly impervious to water.]
450.-J. C. Gray, of Frankfort, Ind., for an Improvement in Beehives

 451.-John Griffin, of Louisville, Ky., for an Improvement for Changing the Speed of Steam Carriages :
I claim the arrangement, essentially as shown. of the steam cylinder,

452.--E. A. Hearne, of Lowndes County, Ala., for an Im provement in Cotton Cleaners:
I claim a revolving drum armed with a series of padde-shaped beatcentral reed hole and discharge spouts, situated near each corner on
the back side of the box the drum revolves on, as substantially de-453.-B. F. Hebard, of Neponset, Mass., for an Improvement in Burning Fluid Compositions
I clamm the composition of fusil oll, kerosene and spirits of turpen ine,
454.-Goodrich Holland, of Willimantic, Conn., for an Improvement in Machines for Sorting Silk and Othe I claim the combination of the rocking frame, $\mathbf{J}$, and weighted tum
ner tially as shown and described.
1 also claim providing the priphery of the roller, $N$, with a screw
ind thread, m, as and for tbe purposes se forthe roller, $N$, with a screw
The combination of the screw-threaded roller, $N$, and a chaser, $h$, with the roller, M, in the manner substantially as shown and described,
so that, when the size of the passing thread increases, the roller, $N$, and
its screw, m, will be rotated and carry the chaser out of the screw, and
thereby cause the stoppage of the thread-winding bobbin, all as set
forth. 455.-Edward Holmes and Britain Holmes, of Buffalo, N. Y., for an Improved Stave Machine: gear claim, tirst, Connecting the cutter frame, G, to the stationary or tions, H and I , so as to admit of the oscillation or movement of the
cutter frame in any direction, according to the peculiar requirements
of each stave to be dressed, substantially as set forth. Seeond, We claim the arrangement or the tlexible mouthpieces, $P$ and
P $/$ in the cutter frame , substatiall as evescibed in comblnation
with the flexible connection of said culter trame to the stationary or
456.-M. R. Hubbell, of Wolcott, Vt., for an Improved I claim the knives, CDDE F, and pl tform, b, carried in a reciprocut-
ag frame, and arravged to operate in connection with the hopper, $G$, ing frame, and arravged to operate in connection with the hopper, $G$,
and crossbar or partition, $H$, substantially as set forth. 457.-J. W. Hyatt, Jr., and I. S. Hyatt, of Chicago, Il., for We claim the combination of the wheel, $D$, and springs, $J$ J, or equivalent pressing
[This invention is a rotary knife-sharpener, intended to operate upon both sides of the edge of a knife at one and the same time. The invention consists in the employment of twin wheels or cylinders mounted in bearings in a suitable frame, and operated upon by a spring or springs, so that their peripheries will be made to touch each other; and also operated by a large smooth-faced wheel, whereby they receive their to be mation opposite arections; said twin wheels or cylinaersare compositio of stone, or to have their peripheries thickly covered wiwa them, they being rotated, it will be operated upon by each wheel, and its edge will be ground uniformly on each side at the same time.]
458.-D. A. Johnson, of Chelsea, Mass., for an Improve-
ment in the M ode of Uniting the Spokes and Felloes of Wooden Wheels: I claim as new in coupling spokes with the parts of felloes of wooden
wheels, by means of a metalic band, in the manner described, teach each or any of the spokes, and conical pin or wedge for expanding, the end
of the spoke, constructing said band with an hour-glass-shaped cavity for reception of the spoke, and making the band to cover or overlap the
outer end of the spoke, substantially as shown and described.

## 459.-Daniel Kaufman, of Boiling Spring, Pa., for an Im-

proved Broom :
I claim the employment of clamps, A, consisting of two plates, a b,
screws, c , and rings, d, in combination with the slotted end of a broom screws, $c$, andrings, d, in combination with the slotted end of a broom
handle, $B$, constructed and operating as and for the purpose specified. This invention consists in the arrangement of clamps consisting of which are united and fastened to the broom by means of screws screwingfrom opposite sides into rings, in combination with a handle the inner end of which is slotted to receive one of said rings in snch a manner that, by means of said
460.-J. P. Kenyon, of Brooklyn, N. Y., for an Improvement in fyrtanss:
claim, first, THe arrangement of the chamber, J, central tube, L , shoumber,, , , packing, M, and tube G, the laterer, being in communica-
tion with the chamber, $J$, tube, $F$, and spout, $D$, substantially as and for the purpose set forth.
Second, The hande, $E$, crankshaft, $C$, and yoke, $c$, when used in
connection with the plunger, $H$, cha mber, $J$, tube, $\mathbf{c}$, wand their con-
comitant parts, all arranged for joint operation as set ferth. 461. J. G. Leffingwell, of Newark, N. J., for an Improvement in Gas Cocks:
I claim the combination of set screw or screws and lever with a gas
cock, constructed substantially in the manner and for the purpose spe. 462.-R. R. Lewis, of New York City, for an Improvement in Vapor Burners for Heating, \&c.:
I claim the burner composed of the inner and outer perforated tubes,
A B, the disks, a a and the granulated mineral filling in the annular sace hetween, said tubes, the whole combincd substantially as and for 463.-G. G. Lobdell, of Wiminctom, Del., for an Improvement in Railroad Car Whecils:
 an inne rrib, E , arranged and ermpleged in relation the the said flaich
and the remaing portions of the wheel, in the manner and for the
purposes described. 464.-W. A. Ludden, of Brooklyn, N. Y., for an Improvementin Smoking Tubes:
I claim a telescopic smoking tube, composed of a sliding tube or shell,
A, perforated piston or talbe, $\mathbf{B}$, and mouthpiece, C , the whole made as
shown and described. shown and described.
[The object of this invention is to provide the means for smoking fine cut tobacco, commonly known as Turkish tobacco, put up in charges of
a peculiar shape and construction in a convenient and agreeable man ner.] 465 .-J. G. Manley and F. Wedge, of Zanesville, Ohio, for an Improved Earth-boring Machine : We claim, ifrst, The arrangement of a screw shaft, D, with a slip
coupling, $\mathbf{F}$, in combination with an auger, M $\underset{\mathrm{N}}{0} \mathrm{O}$, substantially as and
Second, The conbina tion of a screw, shaft, $D$, of an auger, $M N O$.
with a swinging nut, $A$, and a frame, $P$, substantially as and for the TThis invention is
Chis ins purposes. The particular for the losertion of fence posts and
adapt the instrument to bore vertical holes on hill sides or in sloping or uneven ground, and to insure the thorough removal
466.-J. B. McIntosh, of Girard, Pa., for an Improvement in Machines for Loading Hay :
I claim the employment of the cam, $P$, constructed and operating as
descrihe, in combination with the tooth bars, b, to discharge the hay nit the endless anron, $O$, in the manner and for the purpose spec
fied
Second, $I$ also claim the arrangement of the frame, $N^{\prime}$, with the ad justable hood, z, in combination with carrier,
467.-Thomas Mitchell, of Lansingburgh, N. Y., for an Improved Machine for Boring Brush Blocks:
: eries of bits, substantially as and for the purpose set for
468. -Charles Monson and Stillman Moore, of New Haven Conn., for an Improvement in Gas Burners :
We claim the use of the double nbes, A and B, so as to be readily
adjinsted in their rotary without cchanging their bongituclinal pesition,
when constructed arranged and fitted as and tor the purpose substan when constructed,
tally as described.
469.-Daniel Moore, of Brooklyn, N. Y., for an Improvement in Firearms :
1 chaim, first, The gudgeon, $\mathbf{c}$, provided with a head, and taking the seciam, irst, The gudgeon, e, provided with a head, and caking the
with the spring, d, and the projection fiom the barrel in combination
wrooves, 1 and 2 , for the purposes Second, I claim the slide, $i$, formed as a fork, and provided with the perforated sole piece, 3 , and, semi-c
base of the cartidige, as set forth.
470.-Peter Murray, of Detroit, Mich., for an Improvement in Steam Engines
I claim constructing and furnishing the cy linder of the engine with superheated and ordinary steam are admitted sep
ders, substantially as and for the purpose specified.
471.-L. M. Parker, of Shirley Village, Mass., for an Improved Fruit-gatherer:
I claim my improved fruit-pick
and arranged inproved fruit-picker as made of a series of wires, ben
72.-Hiram Powers,

Punching Machine

nstrument, ce, is inserted, operating as specified and described, fo
473.-Daniel Ruggles, of Barras, Mass., for an Improvement
in Brakes for Sewing Machines :
I claim of a frictional brake, with suitable levers, and the pin or key, d, in combination with the driving balance, or other rotating wheels,
and the talle of a sewing machine, substantially as and for the pur-
poses specified. 474.-W. C. Salmon and G. F. Bliss, of Placerville, Cal., for an Improved Machine for Upsetfirig Tire:
We claim the combination of the stationary and movable bed plates,
$\mathbf{A}^{\prime}$ and $B$, their clamping dogs, $E$ and $F$, and jaws, $D$ furd $D^{\prime}$ as se

[This invention consists in a combination of stationary and movable bed plates, having clamping jaws on them for grasping and holding the is properly clamped to the beds, and a spring which throws the mov able jaw back after it has been acted upon by the cam and sector.] 475.-Gelston Sanford, of New York City, for an Improve ment in Machines for Treating Vegetable Fiber: I claim the arrangement of the feed rollers, B B, the brushes, the
helts, D D, armed alternately with teeth and scrapers, as slown, and
he carrying rolters, E, the whole being also arran ged to operate in the carrying rolleprs, E, the whole beein
ieverse directions at will, as set forth.
476.-S. T. Savage, of Albany, N. Y., for an Improvement in Stoves
I claim the employment of the base burning chamber, B, external as represented, whereby an indirect draft is produced a round the front
the sides and the back of the stove, in the manner and for the purpose
specified. G. Scofield, of North Stamford, Conn., for an Im
provement in Sewing-work Holders
I claim the open-ended buckle, $\mathrm{C}^{\prime} \mathrm{C}$ G, as a new artucle of manufac.
ture, when adapted to receive the edge or a fold in the cloth, B , to allow
it to be drawn forward at will and tg be introduced and reinoved, sub-
stantially as and for the wirl and
478.-Jacob Shavor and A. C. Corse, of Troy, N. Y., for an
Improvement in Gridirons: Improvement in Gridirons
We claim the downward projecting side, $D^{\prime}$, and the downward pro-
jectung side, $D$, in combination with the reservoir, $c$, as described and
set forth 479.-P. B. Sheldon, of Prattsburgh, N. Y., for an Improve ment in Roll Blotters
I claim the combination of the two rollers, a a, arranged in a suitable
holder, bc f eilher with or without the s supplementary roller, $h$, sub-
stantially as and for the purpose suecilied
480.-Josiah Shephard, of Columbia, Texas, for an Improvement in Cotton Scrapers:
I claim, first, The curved rumners, C C, arranged and constructed as
described, and in combination therewith the scraping plates, $\mathbf{D}$, when
attached the the runcrs by pivoted ulvis, :ly, hyicr: $1,1 s, g$, and loolts
 and otherwise constructed and wriliecil, as a
fied, when combined with the runners, C C.
This invention consists in attaching to two curved runners two craping wings which scrape the sides of the rams and leave them free rom weeds, said scraping wings being so attached to said runners that hey may be readily adjusted so as to increase or diminish the space etween their front ends. It further consists in the employment of rame, carrying plates which are curved inward, pivoted to the fron for the purpose of earthing or throwing earth about the roots of the plants during the operation of thinning or scraping. 1
481.-J. H. Simonds, of New York City, for an Improved Hot Air Register
 racks, ${ }^{\text {serving as inn }}$
as set forth.
(Registers for hot air and venti-ducts, as hitherto constructed, have had their slats or valves so arranged as to work entirely within a box which projects within the flue or ducts, and serves as a great obstructhen to same. The object of this invention is to obviate this difflculty and also to obtann a better means than usual for operating the
82. B. Smith of Winfield, N. Y for an Im

In Harvesters
I claim the arrangement of the removable inclined bar, $T$, with the
shoe, $S$, and roller, V , as shown and described.
483.-W.. H. Smoote (assignor to himself, Franklin Taylór
C. A Nelson and Montreville Cornell), of Prince Wil-
liam County, $\mathrm{Va}_{\text {e }}$, for an Improved Method of Making
I claim forming barrels, casks, and other vessels of wood without
external hoops, by the mode described and set forth and for the pur-
poses mentioned.
84.-W. W. Snow, of Jersey City, N. J., for an Improve ment in Car Wheels:
I claim uniting the hub and rim of a car wheel by two plates, the front
one being corrugated near its perimeter so as to cross the rim or tread $m$ a waved line, and near back perimeter so as to crose convex and uniting with the
tlange and the whoie constructed sulustantialy as set forth and for the purpose specified.
485.-James Spear, of Philadelphia, Pa., for an Improvement in Cooking Stoves and Ranges:
I claim the combination of the sifting and ash drawers, A and B, with
the curved or guide plate, , when used in connection with a stove $\bullet 1$
range in which the oven extends under range in which the oven extends under the fire grate.
486.-P. H. Standish, of Pacheco, Cal., for an Improve mentin Harvesters
I claim the arrangement of spring, f, wedge, d, and guide, $I$, with
fie frame, A, shatt,
anner pallet har, H, and scolloped wheei, $E$, in the manner and for the purposes set forth.
[This invention relates to certain improvements in the sickle-drivin mechanism, which is of that class having a serpentine cam and pallets. The object of the invention is to allow a certain degree of play or yield ing movement to the axes of the pallets, and, at the same time, rende he pallets easily adjustable, so that they may be readily thrown in and out of gear with the cam.
47.-F. J. Steinhauser, of Lancaster, Pa., for an Improvement in Snow Plows
I claim the circular breakers, $A$, and shovels, $B$, together with the
ice breakers, $F$ and $G$, as arranged in combination wint the ordinary
snow plow, $\mathbf{b}$, for the purpese of removing snow and ice from railway
488.-William Stewart, of Philadelphia, Pa., for an Improvement in Mills
ings or concares, E, placed one abore with a series of conical toothed conical case, D, and in series of conical, grinding, toothed ringer, C,
placed one above the other upon a cone, B , the whole arranged and
operaing in the manner and for the purpose shown and described. 489.-J. R. Supplee, of Bridgeport, Pa., for an Improve-

I elaim having the openings at the under side of the drum, A of the
from the cold air fine; $F$, also similar openings around the sides and
490.-William Taylor, of Berlin,N. Y., for an Improvement in Guides for Laying Cord :
I claim the hinged cording device constructed and operating sub-
tantially as, described, and tor the purpose set forth.
491.-Enoch Thomas, of Beverly, Va., for an Improvement
in Presses
I claim, ofirst, The movable boxes, $C$, and collars, $T$, combined with
cam shaft, $D$, and wheels, $F$, in the manner and for the purposes
Second, The use of the detached followers, $R$, between the cams, $\mathbf{E}$
nd follow $\mathbf{H}$, in the mannel and for
 Fourth. The oil, plates, $S$, 1 nterposed bet ween the cams
owers, $\mathbf{H}$ or $L$, for the reduction of friction, as set forth.
[The leading object of this invention is to produce a continuous moment of the follower to any extent desired, by successive revolu dvant the cam shaft. It is thought to combine the most importan dvantages which are regarded as peculiar to the cam and screw press riction, facilitating the insertion and removal of material, and adapt ing the press to work equally woll with a small or a large quantity.] 92.-W. H. Topham, of New Bedford, Mass., for an Im
provement in Lamps:
I claim the arrangement of the flanched screw socket, $H$, and disk,
with the band, b, tubes, $D E F$, and cap, $I$, in the manner and for The employment or use of the double armed spring, $K$, in combina
Tion with the cap, 1 , and spring, $L$, in the particular nianner shown and
in ion with the cap, 1 , and spring, $L$, in the particular manner shown and
described, fort the purposes set forth.
I claim the arrangement of the rings or plates, $G$, to extend from the plate,, , to the inner surf face of the cone or deflector, $J$, so as to inclose
the flame, all in the manner and for the purposes shown and described. [The object of this invention is to supply the flame with a requisite amount of oxygen to support proper combustion and to present the air thereby.
thereby.]
493.-E.
93.-E. I'. Torrey, of New York City, for an Improvement in ice Cream Freezers
I claim the arrangement of a rotary agitator, F, or its equivalent, in
combination with a can, A, and tur, D, of an 1ce cream freezer con-
structed and operating substantially in the manner structed
specified.
94.-J. H. Totman, of Plattsburgh, N. Y., for an Improved

Method of Hanging and Securing Reciprocating Mill Saws:
I claim the
I claim the employment of the front gauze, $c$, the rear gauze, $\mathrm{c}^{\text {, }}$, the
hoo, d and key, e , when these devices are constructed and opcrated in 495.-J. S. Weth cisco, Cal., for an Improved Process for Treating the

Ores of Precious Metals
I claim the above-described process of treating ores, consisting of
the use of steam in combination with a mixture of pulverized ore, carbon, a solution of Salt,
the purpose as set forth
496.-S. H. Whitmore, of Cincinnati, Ohio, for an Improvement in Steam Engines:
I claim, first, The above-described apparatus consisting of the sliding
bar, the catches, hooks, plungers or lifters, and rod, 13, combined ind rranged substantially as described, for operating the cut-off and exSecond, The application to thie above apparatus, arranged substan-
ially as described, of an automatic governor operating throngh the rod, 3, to trip hecribed, of an automatic governor operating through the rod,
Third, The reciprocating bar, li, desirable point in the stroke. Third, The reciprocating bar, 1, carrying the stationary catches for
opening the values, and by its return movenent opening the exlhalst
y impingingagainst the cranks, 6 6, substantially as described. Fourth, The plungers with their cylinders or sloted arms jointed to
he rod, 13 , for disengaging the hooks, 88 , from the catches, 99 , con structed substantially as described.
Yifth, The hooks, 8 8, when combined with the cranks, 6 6, and opeated in counection with the catches, 99 , substantially as described.
Sixth, The independent adjustable valve seat, 191919 , in connection with the oscillating valves, 11, substantially as described.
Seventh, The hollow.throated valves, 11 whenen combined with the
cut-off arrangement described in the first claim.
497.-John Whitten, of Boston, Mass., for an Improve-
ment in Fracture Apparatuses:
 wo rests, substantially in manner and so as to be capable of operating 498.-R. A.
48.-R. A. Wilder, of Cressona, Pa., for an Improved MaBreaking Coal
I claim, first So constructing and arranging a rotating toothed dlsk
in a coall- breaking machine as that it shatlon serve the purpose of a coal
breakeras well as form one of the sides of the hopper into which the
I also claim, in combination with a rotating toothed disk, forming one
coaltor ber ide of the hopper, a perrorated plate or plates, F, formmg the bottom I also claim hinging the bottom of the hopper, $F$, at its middle, and
adjusting it at its ends, or the purpose of passing coal to or from the the center, or to or from the larger and smailer openings in it, so as to
break the coal of greater or less sizes, subsatatily as describe
I also claim, in com bination with the ritr:iat disk and the perforated

I also claim constructing and operating a coll.breaking machine so
hat the teeth or knives of one rotated vertical disk shall pass the teell
ork tivesof the ofther rotated vertical disk in or knivesof the other rotated vertical disk in opposite directions, so
that the may strike the coal that comes between them on opposite
sides the sane moment, for the purpose of crack ing the coal into sat they may strike the coal that comes between them on opposite
sides the same moment, for the purpose of cracking the coal into
pieces and preventing the waste by crushing or pulverizing, substan pieces and prevent
tially as described.
499.-Frederick Wilford, of Eagle, Wis., for an Improved Apparatus for Walling Wells, Cisterns, \&c., with I claim, first, A hollow cylinder, to be constructed in two main part nd hinged together, in combination with the movable or swinging tave and the stiretchers or extension braces, to be constr ucted and
perated substantially as described and setforth; and-
Second, The movahle or swinging stave in Second, The movahle or swinging stave in combination with the
stretchers or extension hraces and connecting rodit the whele to be
constructed and operated substantially as described and set forth.
500.-W. T. Williams, of New York City, for an Improvement in Animal Traps ;
I claim the flaps, dd, and levers, $f$ f, in combination with the sup And $I$ claim the valve, c, in combination with the flaps, $d$ d, and sup.
perts, e, actin in in connection with the receptacle, a, as anclfor the
purposes set forth. 501.-Charles Wilson, of Brooklyn, N. Y., for an Improve ment in Tightening Iropes on Cotton Bales
I claim the arrangemet of : E windlass, C , and attached hollow ane, $D$, with the sliding cone, $F$, weighted lever, I, fork, $G$, collar, $C$,
nd shaft, $B$, in the manner and for the purposes shown and described [The object of this invention is to obtain a machine which may be readily connected to the ropes of a cotton bale, and power applied effectively for drawing the ropes tightly around the bale after it is com pressed and before its removal from the press-the parts being so ar anged that they will be under the complete control of the operator and the device rendered capable of being manipulated with the greates facility.]
02.-A. H. Wood. of Boston, Mass., for an Improvement in Gas Burner Regulators: ,
 cheansing, for receiving the condensed matters ortarry producls evolved
crom the gas. 503.-D. B. Woodward, of Ercildoun, Pa., for an Improve-
mentin Horse Rakes : mentin Horse Rakes
I claim the rock ing trame, A1, having the teeth, $i$ i $i$ i, applied to it
in the manner cescr ibed, in combination with the rockhat, 0 , cam
wheels, D D, bar, B, and ratchet wheels wheels, DD, bar, B, and ratchet wheels, A2 A2- these several, parts
eing constructed and arranged for joint operation in the mannel and
for the purposes specified.
504.-P. H. Woolsey, of Andes, N. Y., for an Improvement in Feeding Tapering Lumber to Rotary Planers :

505. - Arcalous Wyckofi, of Elmira, N. Y., for an Improved claim the combination and arrangement of two annular cutters or cunting cylinders, $B$ C, one being of larger diancter than the onther, and
both entung concentimily, fon the purpose of forming ansecession of

 , adge cutters and trimmers, e e and $f$ fescribed cylindrical cutters, $p$ man ner and tor the purposes, shown and described.
I allo claim the arrangement of the wings or thanges, $d$ d, extending I also claim the arrangement of the wings or flanges, d d, extending
inck upon the cutting cylnders ronn the heels of the cutting elges, it,
in compination with the saidenting edges, The throats between them immmediatedyand and conto keep the same and
by the ships as fast as formed, substantially as specilied.
506.-J. E. Atwood, of Mansfield Center, Conn., and Lewis Leigh, of Seymour Conn., assignors to themselves, J.
C. Atwood, of said Mansfield Center, Conn., V. A. Messimger, of Boston, Mass., and V. A. Messinger, of Canton, Mass., for an Improvement in Machines for Sorting Silk Thread :
 and operating, substantiallv as diesc iribet, in combination with earh
other aud with the winding bobbin and its driving apparaus.
Second, The screw, d, and stop, e, applied in combination with the
 ith the lowest of the levers, Earrying the gaging rollers, substantially
s and for the purvese set forth.
57.-C. W. Cahoon (assignor to J. B. Cahoon), of Port-
land, Maine, for an Improvement in Lamps:
I claim the combination of ctibuseref fastenings with a thumb lever,
substantially as described, so that the chimney may be wilhdrawn by substantially as described, so that the chimney may be withdrawn by
preessure upon the lever.
I also claim the combination of a guard with the thumb lever, the said guard beinglocated betveen the chard with the thand that end of the lever, the
to which pressure is applied, substantially as described. to which pressure ix applied, substantially as described.
I also claim the combination ot a spring witha thimb level fitted
with chlmney tiastenings, substantially as described. with chlmney tastenings, substantially as described.
I alaso claim the combinatiou of a chimney guard with a thumb lever
substantaily as described. I also claim che combination of a n opaque lamp body with a trans
parent plate, substantially as described.
508.-J. H. Gould, of Philadelphia, Pa., assignor to H. E. Wallace, of 一一, for an Improvement in Packing for Steam Engines:
I laim the application of india-rubber. steel springs, or other elastic
substances, in combination with the alloy the composition of whirlh is givern
joint.
509.-D. F. Haasz (assignor to himself and Thomas Nash), of Philadelphia, Pa., for an Improvement in Appara-
tuses for Ascertaining the Fares taken on Public Conveyances :
claim a box, A , its two compartments, $C$ and $D$, the zig-zag passage, I claim a box, $\mathbf{A}$, its two compartments, $\mathbf{C}$ and $D$, the zig-zag passage,
a, valye, e, shield, f, and the sliding door,
being arranged as and itor the purpose set forth. 510.-George Herdtfelder (assignor to himself and Charles derground Receptacle for Waste Matter : I claim the receptacle for ashes, garbage, trc., formed of the box $c$,
anid covers, $f$ in combination with the chamber, $g$, and pipe, 1 , for the
511.-I. H. Hobbs (assignor to himself and W. H. Clark), of Philadelphia, Pa., for an Improvement in Ruling I claim the application to a fountain
I claim the application to a fountain pen of the lateral projection or
ruling guide, g, the same being constructed and applied to an adiust.
able tongie,
purpose spectied as to operate substantially in the manner and for the
512.-L. P. Mara (assignor to J. B. Murray), of New York City, for an Improvement in Newspaper Wrappers : ing of gum acacia or other suitable adhesive material, substantially as 513.-G. W. McMinn, of Covington, Ky., assignor to himprovement in Metallic Springs :
provement in Metalic Springs :
I claim, first, Forming the leaves of a metalie spring with aiternate
bosses, $B$, and depressions, $C$, adapted to rest one within another, in the manner and for the purposes set forth.
Second, In the described combination with the above, 1 claim the
elamp, $\mathbf{D}$, adapted to confine or release the parts of the spring, in
the manner set forth.
514.-Herrman Müller and Charles Majer (assignors to themselves, Fritz Kasefang and Louis Beauche), of
New York' City, for an Improvement in Cigar Ma-




 Fourth, The forki, spring, i, fitting over the cigar during the rolling
up of the outer 515. - William Turner (assignor to J. Y. Norton and J. ting Componnd
cating carmponnd:
claim the use of this compound for lubricating purposes
516.-T. H. Dodge, of Washington, D. C., for an Improveclaim, firs 5 , The combination with the drag bar or shoe and heel or the finger beam, of E. Balls "oh io Mower, patented December
1857, of a lifting lever and cord or chain, whereby the driver can cause

 RE-ISSUES.
33.-M. A. Howell, Jr. (assignee of J. H. Elward), of Ottawa, Ill., for an Improvement in Mole Plows. Pat ented Nov. 13, 1860
claim, first, In combination with a plow, or machine forpurposes of
underground draining, atationary cout er, and a coulter the front edge underground draining, a stationary court er, and a coulter the front edge
of which may be moved laterally, for the purpose and substantially as
described described. The sections, ed and $c$, in combination with the ooulters, a
Second,
and $b$, when arranged as and for the purposes se $t$ forth, substantially as Third, The movable coulter, a, in combination with the side draft, as
Thied at the link or loopat $f$, on the side of the beam, $A$ through applied at the link or o op a t, in the side of the beam, A, through
either of the slots in the transverse piece upon the forward end of the
beam, A, for the purposes substantially as set forth and described. See engraving on another page.]
34.-S. H. Ransom \& Co, of Albany, N. Y., assignees of Washburn Race, of Seneca Falls, N. Y., for an Im1846:
e claim connecting the expansion rod with the register in the man
5. B. Hard of W
C. B. Hoard, of Watertown, N. Y., for an Improved Method of Winding Tim
laim winding a clo

I claim winding a clock or ot her timekeeper by means of a current of
air produced by a pip, fue, or ther artincinal channel, employ ed for
ventilation, or otherwise actuating an air
ventilation, or otherwise actuating an air motor
36.-P. H. Jackson, of New York City, for an Improve Inent in Ships' Winches. Patented August 7, 1855 : I claim the pawl, 4, and counterweight, 6 , constructed as specified, so
hat the pawl can be reversed by turninn it under the center 5 , and the
counterweight will counter weight will cause the said pawl to act upward on either side of
the center, as fet forth
I claim the ratchet wheel, 3, of a windlass or winch, and the reversible pawl, 4, below said wheel, in combination with a double-acting heaver, as specified, by which arrangement a windlass or winch can be
rotated in either direction by the use of one ratchet wheel, as described
and shown and shown.
I also claim the pawl, a, formed with two arms orpoints, as set forth,
in combination with the socke or plate receiving the hand spike or in combinaion witi ne socke ber plate recenving the ha us spike or
heaver, aid pawl being reversi ibe in the nanner specified, so that the
arm not in action beomes a counterweight to the arm or point taking
the ratchet teeth, as set forth. 37.-Suspended.
38.-William Wharton, Jr., of Philadelphia, Pa., for an provement Patented Sept 18 Cars from one Track to Another Patented Sept. 18, 1860 :
I claim the employment, in connection with sidings or turnouts on
rail ways, of a supplementary fnclined or curved guide rail, in combination with car wheelg so constructede as regarde the esaide sumplemenentary
railwhich is so arranged in respet ot the rails of the main track and
those of the siding that the wheels may be transfer
 hrust cau sed by the w.
guide rail, as set forth.
design
John Long, of Massillon, Ohio, for a Design for a Cooking Stove

## 

W. A.H., of R. I.-We have no other knowledge of the heel attachment than that contained in Mr. Aiken's claim.
W. McC., of Miss.-We know of no mode of making the color of poikberries permanent.
J. T., of C. W.-If you want to learn to take photographs, you had better apply to some one familiar with the art to teach you. T. D. J., of Mich.—Smoke will fall whenever it becomes as
W. F. D., of Mass.-We have known cement cisterns to be used forwarn water, and know no reason why they should not be
suitable to hold boiling hot water, as cement consists of lime, silica suitable to hold boiling hot water, as cement consists of lime, silica and alumina, calcined
J. T., of Ill.-We suspect that all others who may try it will find your plan for transferring furfrom the natural skin to sheets of india-rubber impracticable as well as yourself.
B. R. E., of Iowa.-Artificial noses have been made by citting a strip from the forehead and grafting it uponthe nose. If you would like to go through this operation, you can apply to some be made of india-rubber, but we do not know of any person engaged in the manufacture.
J. K., of Mass.-Send us your address, and we will forward you our pamphlet of advice to inventors. The tables which youask for, giving the expansion of different metals with heat, $\& c$., we shall pro bably publish soon.
W. P. K., of Mass.-Your request to publish an article on church organs will be duly considered. It is a subject in which very
W. R., of Me.-We know of no beam engines now in operaion with the connecting rod arrangedas you propose; butsuch engines have been described in the earlier works on the steam engine, and we saw one in operation about 20 years ago.
M., of Wis.-We do not know of any one who is engaged in manufacturing the patent alarm bedstead of J. C. House. In Vol XI. No. 4 (old series), you will find an engraving of it, representing attachment of the bedstag
A. E T., of Ohio.-The bit of stone you send us is proba bly quartz, but the piece is not large enough to permit a thorough ex-
R. T., of Pa.-By boiling a piece of cloth composed of cotton and wool for several minutes in moderately diluted sulphuric acid, the cotton will be destroyed, while the wool will scarcely be af-
fected. This is one method that is employed to detect cotton in susfected. This is one me
B. \& S., of C. W.-We advise you to address the Collinsville Company, Collinsville, Conn. They are making cast-steel plows. H. W. T., of Mass.-We do not believe that the tables you speak of would be of general interest to our readers.
. F. DeN., of S. C.-By an advertisement in another column you will see that you can get sulphate of ammopiain a crude forn formanure from Dodge, Colvill \& Olcott, No. 188 Pearl-street this city
F. H., of Ky.-On page 345, Vol. II. (new series) of the Scientific American
its ores are described
A. E. W., of N. Y.-By referring to No. 18, Vol. I. (new series), you will find an engraving and notice of such a plate as you want.
T. C. H., of N. Y.-If you will procure a copy of our recent edition of the Patent Laws you will find all the information you need on the questionof the abandonment of an invention. The price of the pamphlet is 25 centy
. D. A., of Ohio.-You should put your deed on record beforecommencing a suit forinfringement. By procuring a copy of the Patent Laws and Information published by us (price 25 cent you will find an answer to your inquiry about the use of patented in ventions.
H. G., of Penn.-As you suggest, a tank of water as a target in experiments with artillery might furnish a very accurate measure of the penetrating power of the shot, from the perfectly aniform and homogeneous character of the substance penetrated. But would not the inconvenience resulting from the escape of water through the shot holes be an insuperable objection to the use of such a target ?
. M., of Texas.-It would occupy too much of our space to describe the mode of making stearine candles from tallow, but you will find the process fully described in Morfitt's work o
and candles, published by Parry \& McMillan, of Philadelphia.
W. J. B., of Ala.-The sheet metal which you call " crystallized $t i n$ " is sheet iron coated with zinc, and is called "galvanized ron." It is not produced by an acid, as you suppose, but by preparing the sheet iron in a peculiar manner and dipping it into molten zinc. You will find the process fully described on page 269, Vol. XII. Scientific A merican.
M. L., of Ky.-The fly-wheel of your sawmill to which the pitman lis attached does not appear to be properly balanced, and this may account for the jumping of the wear of the journal on the side to which the pitman is atached Secure a balance weight on the rim of the whee
man connection, and see what effects will result.
J. McC., of Ala.-Carbon or hard coal is insoluble in acids and all other common solvents. Soapstone is decomposed with nuriatic acid, butit is not useful for any purpose known to us excep in its solid pure state.

## Money Received

At the Scientific American Office on account of Patent Office business, for the week ending Saturday, Feb. 23, 1861:-
W. F., of Conn., \$30; W. \& G., of Fla., \$300; L. G., of La., \$20; L P., of Conn., $\$ 10$; J. A. W., of Miss., $\$ 30$; C. D., of N. Y., $\$ 25$; E. B., of N. Y., \$57; L. L. K., of Mass., \$58; A. S., of N. Y., \$25; T. C., of
Cal., \$35; A. N., of Pa., \$25; C. P. W., of N. Y., \$55; J. O. W., of N. Cal., \$35; A. N., of Pa., \$25; C. P. W., of N. Y., \$55; J. O. W., of N.
Y., $\$ 58$; C. M. L., of Ohio, $\$ 25$; J. P. T., of Md., $\$ 55$; H. J. H., of Ill., $\$ 25$; J. W. \& J. S. H., of Ill., \$25; J. B. S., of N. Y., \$25; McC. \& B., of Mo., \$25; E.G., of Mass., \$25; W. H. G., of N. Y., \$25; L. S., of Vt., $\$ 55 ;$ J. \& R., of N.Y., $\$ 30$; G.S. C., of IIL, $\$ 30$; C. A. W., of
Mass., $\$ 30 ;$ N. F. M. of R. $\$ 20 ;$ D. B., of Ill. $\$ 30 ;$ J. L. of Mass., Mass., $\$ 30 ;$ N.F. M of R.I., $\$ 20 ;$ D. B., of Ill $\$ 30 ;$ J. L., of Mass.,
$\$ 30 ;$ G.W. B., of N. Y., $\$ 30 ;$ W. T. A., of Iowa, $\$ 15 ;$ S. M. D., of Mass. \$30; C. N. B., of Pa., \$25; I. S., of N. Y., \$20; P. H., of Pa., $\$ 25 ;$ W. H. D., of Cal., $\$ 40 ;$ C. C., of Ill., $\$ 12$; E. B. S., of Conn.,
$\$ 55$; S. M. G., of V C
$\$ 25 ;$ G. G. L $\$ 55$; S. M. G., of Vt., \$25; G. G. L., of Del., \$25; W. B. Q., of I11., \$25; D. F., of N. Y, \$25; J. A. De B., of N. Y., \$25; J. N., of N. Y., \$25;
H. P., of N. Y., \$25; J. B, S., of Conn., \$15; L. \& W, of N. Y. $\$ 30$; J. R. R., of Mass., \$165; J. V., of Mich., \$25; B. R., of Mass., \$25; G. N. C., of Conn., $\$ 25$; G. B.B., of Conn., $\$ 30$; W. H., of Pa., $\$ 30$; H. McK., of Ala., \$30; W. J. P., of N. Y., \$30; W. W. R., of W 18. . $\$ 30$; C. T. B., of Mass., $\$ 30 ;$ E. H. L., of N. Y., \$10; C. H, of La., $\$ 62$, M. A. S., of Ml., $\$ 35$; G. \&., of Mass., $\$ 25$; J. H. C., of Pa., $\$ 25$; J. B. P.,
of Miss., $\$ 25$ D. L.. of N. Y., $\$ 25 ;$ A. Q., of N. Y., $\$ 30$; C. W., of S. C., \$25; G. W. B., of N. Y., \$25; R. \& W., of N. Y., \$25.

Specifications, drawings and models belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Feb. 23, 1861:-
C. H., of La. ; M. A. S., of $\mathrm{nl} . ;$ E. G., of Mass.; W. \& J., of Mich. B. R., of Mass.; G. N. C., of Conn.; W. T. A., of Iowa; P. H., of N. N.; G. W. B., of N. Y.; T. S. W., of Pa.; J. P. T., of Md.; D. F., of Mass.; C. N. B., of Pa.; A. N., of Pa.; C. C., of nl.; E. B. S., of Conn.; D. L., of N. Y.; J. A. DeB., of N. Y.; W. H. G., of N. Y.; C. S., of N. Y.; J.
Ohio.

New Books and Periodicals Received.
The Medical and Surgical Reporter.-S. T. Butler, M.D, and R. J. Lewis, M. D, editors and proprietors, Philadelphra.
Tin saluable pubbication contains a goo deal of intormation, which
interesting to theinon-prof essional reader as well as that which interis interesting to the the
ests physicians alone.
a Comprehensive Grammar of the English Language. ney, Blakeraan and Mason; Buffolo Berl, A.M. Butler \&ew York: Phin-
This grammar is even worse than Lindley Murray's.
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ents a very large proportion ot the busines
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