
[Reported officially for the Scientific American.]
LSTAFAPATENTALAIMS Issued from the United States Patent Offce for the week ending february 17, 1857.
 Extension Chairs-Saml. J. Anderson and Nelson
Richardon, of Erieville, N. Y. .e do not claime the
levers. d, for they have been previously used for similar

 [By a peculiar com bination of a series of jointed levers
provided with legs, and a series of folding seats attached to a box, Messrs. Anderson \& Richardson have produced a very convenient article of household furniture. It can
be transformed easily into an extended seat, washstand or table, and when fo
bu a small space.]





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 bearing, B, a a shown, so as to prevert a a longitudinal
movent of the same, the whole being arranged as des-
cribed for the purpose set forth. cEvery circular saw requires some lateral play to cut
well this invention consists in an improved met hod o iving the saw this end play, by attaching the saw to collar on one end of the same shatt, and so combining it with spiral s
end play.]
Chimper CowL-Moses H. Hale and Saml. Horton, of Newburyport, Mass: We do not claim the ventilator or
chimney ap abe referen to as patented by Emerson,
but what we do claim as our invention, is as followsand although it it not new to make a chimney cap with
passages extending arund its mouth of discharge, and
or the purpose of recoiving currents of air sand directing
 vantageous in some respects.
We claim the improped cap constructed substantially
as describe
in, viz, with a discharge pipe, A, the inverted aw descrived, viz, with a discharge pipe, A, the inverted
frustu, E, the outer frustum, its wind passages,
and Ghe
as sheld Method or Generating Air Blast-Isaiah J.
Hendry, of constructed with a hollow shaft and divided into com-
partuents, either on a line with the sithe shif, or siraly
arouid it said cylinder being partly immersed in water orouid it, said cylinder being partiy immersed Second. I claim the cylinder with or without a hollow
shaft, and extending the air chamber above and around
the cyinder, side chamber pasing fra enough below the
water line to prevent the escape of the air, the air being supplied to the cylinder through the hollow shaft, or by
pipes passingalognitit to the outside of the ehamber, said
pipes having valves opening inwards or immersing as














Corth.
[ $A$ very minute quantity of varnish must bel deposited
 perromed onon ocap at once-oneata time-in the mal chine in which the caps are made. By this new var
nishing machine, several hundred caps may be varnished nishing machine, several hundred caps may be varnished
at once, ready for being charged by powder-the charging and ramming being subsequent operations performed simply thrown upon a shaking plate formed with holes to receive them, and they find their own way into their laces, and are then charged at once by a series of wires
arrying varnish and dipping into each. This invention very ingenious and useful,
FoLDING BedsTEADS-Benj. Hinckley, of Troy, N. Y.
claim in portable folding bedsteads, connecting and braing the folding portions and intermediate legs by the the
ouble cog hinges attached to the side rails. and having
heir bearings in the intermodiate posts, substantially as

Gearing for Wagons-Edgar Huson, of Ithaca, N
f.: Iclaim so making the frame described as to leave




 forms, IJ on which the moldd are placed, so that the the
olunger and molid to be fited rise and fall together, sub-
stantially as shown and described.
[In this machine a hollow box with a grate in its botmolds and there is an adjusting platform for allowing he plunger and molds to operate correctly when gravel
or stones may be in the clay. The plunger box for stufor stones may be in the clay. The plunger box for stuf-
fing the molds is operated in pressing by a treddle, butit descends by its own gravity ; as one set of molds passes his is a very simple, compact, and cheap brick machine.]
Litraching Extra Top-salls to Vessels-E. H.




Fastening SKATEs-Henry Pickford, of Boston, Mass.
claim uniting the skate blade to the sole of the boot or
shoe substantially in the manner and for the purpose hoe, substantiall

 means of inclined or wedging surfaces for lifting out the
couphing pin, by an oblique orrain upon the draw bar ,
such a device was patented by James Turner, July 20 ,
1852.
But I claim the employment of two obliquely set sliding
head blocks, stop bars, connected by aurning link or
plate, which is hollowed out and beveled inward on each
 projections on its under side; said partwardeing barronging
relatively to the buffer head and operating in the man-
ner and for the purposes set orth. [This invention is designed to render the cars capable
uncoupling, in case of actual danger from the locome tive running off the track, and at the same time to pre-
vent a possibility of their uncoupling when one of the ntermediate cars of the train jumps the track, or the
forwardend of it gets off the track. Heretofore, with all xperienced from the of the train detaching and remaining behind when no actual danger exists. Mr. Price's device for avoiding this
nconvenience is beautiful and simple and can be applied inconvenience is beauifur and simple, and can be appiied
to cars at present in use, which employ the common con. ecting links, by simply altering the buffers of the car Allowing Circular Saws end play independ.
ENTLY OF HHE Drvirg SHAFT-Wm. S. Reeder, of St.
Louis, Mo. I claim the arrangement and combination Louns, Ho.:I claim the arrangement and combination
or an aditional driving shant, D., with the shaft, B, that
caries the saw, for the purpose described.
 eathering, by means of lever, fulcrum, and springs, as
described. SpinNing Fuyers-J. N. Sawtell, of Lowell, Mass.
do not claim the process of casting cast-iron around wrought-iron, whether the wrought iron be or be not
heated when the hot cast-iron is poured thereon, as
such process is well known. Nothers do I Claim the constructing of the flyer of two
Nifirent metals without regard to how these two metals
are united to each other as different metals are now used are united to each other, as different metals are now used
in the formation of many articlese.
I claim the manufacture of flyers, substantially in the nanner described, that is of osyy, casting on the polished amm, are prepared by the application of a proper compo-
mer are
sition, os oas to render the adherence of the nozzle to the

Harvesting Grain And Grass-Wm. Schnebly
Thomas Schebly, of Hackensack, N. J.;
 finger, and with recesses, m m, in front and rear to sup.
port and guide the cutter near the center or the finger
or guard, substantially in the manner described. Spurting SHoE Pegs-NathanielH. Shaw, of Farn-
worth, N. H.: I Io not claim the combination of a spit.
ting mit
 stantially as described, whereby its movement is pro-
duced and adjusted to suit all the requirement
machine under all circumstances in the most simple and pachine under all circumstances in the most simpie and
Ialso manner the arrangement of the holding bar, E , in such a manner as to enable its motions to be produced
withot intererence with the alternate action of the
spliting knife and feeding blade, and to be adjusted for splitting knife and feeding bade, and to be adjusted for
the different sizese of pegs so as on ot od disarrange the rela-
tive positionsand movemens on said holding bar splitting
tnif


 Thirth. I claim triangular coupling, M, or its equivalent,
Tontruct and arranged in the manner and for the pur.
cose set forth. Securing Hubs on AxLes-Alfred E. Smith, of
Bronxvile, N. F. . I claim the mode of fecuring the
pipe box and hub on the axle, by forming the inner end
 antially as described, when this is combined with a prothe collar on the hub being connect ed by on the turn butte, and
tern
equivalents therefor, substantially as and for the purpose
specified. equivalent.
Fexd Water Apparatus To Steam Boilers-
Andrew J. Vandegrift of Delaware,
hat the heam aware Ind three pipes have been used for like purposes ; these
Id ont clatims
But claim the fourth valve, G, and the escape pipe But Ilaim the fourth valve, G, and the escape pipe,
H, in combination with the above described devices, , or heir equivalents, combined, arranged and operated for
the purpose and in the manner set forth, or in any other
ubstantially the same. Daupr ReGuato
Damper Requlators. Por STEAM Boiners-Wm
Webstor, of Morrisania.N. N. Idisclaim the use of any
Cyindrical casing for the enclosing of the piston, and also cylindrical casing for the enclosing of the piston, and also
the piston, as described in the specicication and repre.
sented by the drawing of Wm. T. Gale, patented July 18 st,
1856 But I claim the arrangement of the several parts, as de-
scribed, and for the purpose set forth.
 line of a series of immovable and interposed movable
conductors, and furnishing the ve hicle with a circuit
breaker circuit rese breaker, circuit receivers, and conductors, arranged to
operate enstantially as set forth, for the purpose of break
ong the circuit through the main lin ing the circ uit through the main line at a point or point
where the vehicle is passing, and completing the eircle


[The object of this invention is to adapt any electric
elegraph to transmit communications between railroad trains, canal boats, and all vehicles that move in a track that is unvarying, or varies but little, either when they
are in motion or while stationary. The principle of the invention consists in the construction of a complete tele-
graph line along the route to be traveled, and so forming it that its circuit may be broken at regular intervals by
the passage of the train, vehicle, or vessel along the route A telegraph instrument is provided on the train or vehicle, and all the means necessary to effect a connection
with its apparatus, and to the stationary line, so as to orm a circuit, and transmit a message or messages. This is accomplished by employing movable conductors com-
bined with fixed conductors on the main line, and connecting the apparatus on the train or vehicle with a mov-
able conductor, thus making a flying telegraph office the train or vehicle. The objects and aims of this inven-
tion are important and useful.]
 knite attached, a curved or lateral motion, tor the pur-
pose of enaling the slicing lnife to leave the core in
shape for the easy removal of the apple, by means sub.
 over the guard, Ge which keeps the levere enga, wed with
the screw while thepple ispoing pared and releases
for the free return of the carriage, as set forth.
CuTring Vegerables-H, A. Willard, of Westmin-
ster. Vt.: Ilaim the cuter, B, in combination with the
metallic cutter plate A, together with the particular ar mer. lli.: cuctare plate, A, together with the particular ar
mangement of the cutters upon the cutter pate, in such manner that se veral are acting upon the vegetable
the same timed and that as soon as one has commence
another immediately follows so another imme diately fillows, so that while a portion are
leaving the vegetable and holding it firmily the the plate,
others are commencing, preventing, by this arrangerment, the vegetable from roling or dodging, and beeping it con-
tinually in contact with he knive, thereby cutin with
greater rapidity, with less power, and leaving the cut
vegetable in a more desirable shape for mastication than any machine now in use.
OPERATING VALVEs FOR STRAM Evaives-Samuel
R. Winlot, of Watertown, Con.: I claim the value
motion described for operating the valves of steam en.

RABiNG WATER-Daniel $K$. Winder, of Cincinnati,
0 . I Iclaim the arrangement and combination, substantialy as diescribed, of annular reservoir, $f$, with, the plun-
ger,, , tube, 1 flexibe pipe, v, valves, $h i k$, and cock, $r$,
for the purposes explained.

 the former, Q, as stated tor the purpose of facilitatitig the
removal of the finished boot front, and introduction of
another piece, as represented.
 shown, as 1 may find it ponvenient to let it it into hene frame
causing it tooperate againt the edge of the sash style
oo do so it will only be necessary to make the


TiLE MACHINE-Junius Foster, (assignor to John Her-
bold, George Kuhn, and Junius Foster, aforesaid,) of
Brooklyn, N. Y. I Io not claim the plunger. h, in itselt.
Neither do I claim cutting off the clay or tile with a knife

oint operation, substantially in the manner and for the
purposes specified.


tially as described, when the said lever is caused to oper-
ate upon the rackeve. B, in supporting a wndow curain
by means of the upward strain of the orod, D, he whole
being arranged and operating together in the manner

## nd for the purpose set fort

 SEcuring the Panels or. Field. Fences-C. P
Garlick, of Amado, Minn. Ter., and G. M. Blackstone, of







 no mesif tot tho suador ond pat particuar machinery to










 ary in iom con inamion ni pin
pieces int the holder.

## Wood Stoves-A. C. Barstow, of Providence, e, R.I. <br> The Liverpool (Eng.) Post contains the fol

 wing tribute to an American ship :"The celebrated clipper ship Dreadnought was launnched 1,108 days ago, during which time she has made twenty-one passages across the Atlantic ocean, traversing 65,100 miles, carrying about 47,000 tuns of merchandise. On two several occasions she brought later news from the United States than the regular teamers, and we published third editions of our paper on each occasion-the first with four, and the latter three days' later news."
Since the above was published, this ship has made an extraordinary passage from Liverpool to this cicy, the time occupied (from and to land) being only fifteen days, and that in stormy weather.
The Dreadnought was built at Newburyport, Mass., by Messrs. Currier \& Townsend, who we understand, are building a new clipper for the same firm-Dey \& Co., this city,-whic they assert will surpass the Dreadnought.-
Our steamship builders must look to their laurels.

## Petition for Extension of a Patent.-Fire

Daniel Fitzgerald, of this city, has applied or an extension of his patent forimprove ments on fire-proof safes, which was granted une 1st, 1843, and will finally expire on the st of next June, unless extended.

## Arificial Diamonds.

Some of our cotemporaries are at present giving, as a matter of news, an account of artificial diamonds, made by M. Despretz, of Paris. We published the account of this sup posed discovery of artificial diamonds more than seven years ago, on page 302 , Volume 5 Scientific American.

Mechanism of the Horse's Foot.
The elastic tissue packed within each hoof of a horse is so folded, backward and forward, hat it would present a surface of four fee quare were it spread out. Thus his limbs and the entire weight of his body rest on spring cushions packed in boxes.

Archimedes said, "Give me a lever long nough, and with my own weight I will move be world." "But," says Dr. Arnott, "he would have required to move with the velociy of a cannon ball for millions of years, to alter the position of the earth a small part of an inch. This feat of Archimedes is, in math matical truth, performed by every man who leaps from the ground; for he kicks the world way from him whenever he rises, and attracts it again when he falls."

On page 171, in the article on remedies for ore hands, the word noxious, should read in-noxious, in reference to prussian blue, and rouge.
It is reported in this city that two mammath steamers are to be built for the Califor-

