
[Reported Officially for the Scientific American.] LIST OF PATENT CLAIMS Issued from the United States Patent Offic for the week ending may $12,1856$.
 manner shown, having the neck of one diameter and the
lower portion of an ennarged diameter, so as to operate in
the manner specified.


 the parposes described.
Third. . Claim the described of discovering the
proper numbers to open the lock, substantially as specproper
fied.
CARTridge OPENer-Jesse S. S. Butterfield and Simon
Marshall, of Philadelphia. Pa.: We claim the combina-
 purpose substantialy as set forth.
FARMGATE-C. N. Cole, of Pieasant Valley, N. Y.
claim the arrangement and combination of the parts for claim the arrangement and combination of the part
 the supporting strips, 11, in the portion of the trunk, a, for
uniting the sliding portion of the wardrobe, Et, th the part
a, ofthe trunk, as and tor the purposes mentioned PLANiNG MACHINE-C. B. Morse, of Rhinebeck, N.Y.:
I do not limit myself to the precise me hanical devices
setf frth, of the same, so long as the object is obtained without
changing the principle of operation
I clime frime the combination of the following mechan
ical elem,
 equal thickness without bending the same.
vecond, making the edge, i, of the bed. betting in-
strument, and giving said bed,or rest, alongitudinal move ment, simultaneous with the swinging back or for ward o
the cylinder, to that the edeseot the cutters on the cyl
inder will preserve the same relative position with res
ind
 forth.
Fourth. maintaining the pressure on the middle of the
board, irrespective of the portion of the cutters to which
the board is submitted, by means of the weighted levers, G, operating substantially as set forth. Bank, Pa, I claik, first, hanging the worm wheel shaft
in movabie bearings, that the worm may be disen.
gaged from the feeding rack without stopping its motion
at gated rom the reeding rack without stopping its motion
tod do so, for the purpose of allowing the carriage to run
back, and bet torthe next series of nicks, substantially
as set forthe

 the proiection, t, and adjustable former, Y, for keepin
the blank at an aniform jistance from the nicking tool
for the purpose of equalizing the force or the blow, not for the purpose of equalizing the force or the blow, not
withstanding the taper of the blank, asset forth
Ia so co claim the use of the spaces, $1,2,3$, for regulatin I also claim the use of the spaces, $1,2,3$, for regulating
the force of the spring upon the nicking tool, as set forth.
 tion bucket formed by the union of two separate buckets
wh ose line are arranged substantially as described, as as
to torm a hollow bon through which the water passes in operating the wheel.
We claim the mechanical arrangement and application
of the gearing to the wheels and shatt within the upper of the gearing to the wheels and shaft within the uppe
section of the uper whel. .in combination with the cap
which it covers, substantially as set forth. BRooms-T. H. Powers, of W Wocena, Wis. : The mode
of securing the broom by meansof the flattened cone and
I follower, I do not claim. of securing the broom by means of the flattened cone and
T follower, I do onot claim.
But Ihe
which sarround the frame composed of links and rods
the cone, as described. the cone, as described.
CATTLE PuMP-T. H. Powers, of Wocena, Wis. : I do
not claim operating the platform and raising water by the
 Heating Buidings pr STEAM-A.S. Pelton, of Clin-
ton, Coan, I Iclaim the construction ofthe apparatus with
annular chamber D a round the fire pot, and constituting a portion of the chan hel from the boiler to the radiator
for warmin the air in the radiators previousto the gen-
eration of steam, as and for the purposes set forth. for warming the air in the radiators previous to the ge
eration of steam, an and for the purposes setforth.
The employment of this chamber as a mere suer hea
er of the steam not being claimed as my invention.
R. R. SNow PLow-Saml. Richards, of Philadelphia,
Pa. I. Claim the construction of a snow, clearer, of a sim
ple rising inchined plane,
 curved pieces at F , so arranged that the snow shall be
grad dually raisesed or or near to the surface of the surround.
ing sow, and then ischarged over, on the top of it, sub.
stantially as described. ing snow, and then dise,
stantially as described.
Second, I claim the Second, I I claim the employment of a series of pipes or
other heatin apparatus in the interior of a snow clearer,
for the purposes of diminishing the adhesion of the snow o the upper surface of the clearer
Making BRass Kertless-F.J. Seymour, of Water
bury, Conn. I claim forming brass kettles or similar ar
ticlesfrom discs
 said kettle and shaping the same at once, and then grad.
ually forming drawing in the sides by means of diessub-
stantially in the manner and for the purposes specified.
 chair to a base or frame, so that it will remain stationary,
while the base or frame is moved or rocked, irrespective
of the peculiar manner of attaching or suspending the
same.
 means ofithly
substantial
specified.












 awa re that flanges or rims detache din part have been use
heretofore in this and other countries
Neither do 1 clain a hel car or ound hoe, separatel
considered as that too hae beer use considered, as that too has been used heretofore.
But cliaim a horse shoe having a branch bar attached
to each heel baro the shoe. extending inwarly, and a
the same time lapping and fitting one to the other, with

SURGICAI, SpliNT-John Clough and D.M. Cummings
of Enfield, N. H. Whe claim, first, the bed composed of
orins of cotto cloth h h h,






























 shing th in oirsiment and combination of the rock







srup












 | pose set orth |
| :---: |
| WWyowns |

Wwixviux Mirs. Horace No Goodrich of Aurora:




 abrunhin inn and





解




 in connecton wiut rhe rotains






 And










 Ter and for the purposes sef forth.

 teeth, te or shadea, and , , attached to their peripheries, sub-
tantially as described forthe purpose specified.

















## OiL Ground To Recerve Photographic Compres. SIoNs- Joll H. Tatum, of Baltimore Md. Patent dated

sions Joel H . Tatum, of Baltimore, Md. Patent dated
Appil 1586 : Iclaim the mode of preparing and ren.
dering oil (or oleaginous) bodies, grounds or surfaces im. pressible or sensitve ot the photographic art, burf the e empen in.
rary destructionor chemical change of the oil or oleanin.
ous matter on the immediate surface only, by the use of




Pianoforte Legs-Isaac Engel, of Boston, Mass.
Cooning Stoves-Anthony J. Gallaher, of Philadel
hia, Pa.




## Recent Foreign Inventions

Oil for Painting.-P. Gontier, of Paris, has taken out a patent for treating poppy, linseed, and other oil for mixing with paint, by adding to these oils, when slightly heated in a caldron over a fire, sulphuric acid, resin, manganese and litharge. One pound of oil of vitriol and one pound of manganese are sufficient for te gallons of oil, and ten pounds of resin. They must be added cautiously, and stirred well for three or four hours.
Iron Tubular Ships.-James Hodgson, of Liverpool, Eng., is now building iron screw steamships on a principle for which he has taken out a patent. These vessels are con structed without frames, side-frames, floor ings, \&c., in dispensing with which it was found necessary to increase the strength of the plating for the sides; but to double the strength it is not necessary to double the thick ness of the plate, as the strength of the ma terials increases as the square of the thick ness. The strength is further increased by bulkhead being placed in the widest part of the ship, amidships, and by other bulkheads placed midway between the midship bulkhead and the bow and stern, and again by the inter position of stiffening plates, so as to spread the strain along the vessel's side from one to fou feet from the bulkhead. As the sides of the ship, under ordinary circumstances, are bulkheakened by the holes cut for tends the butting piece, usually placed over the joint, along the line or strake of plates, and spreads the rivets over a wider area. By the construction of a ship in this manner-i act, on the principle of a huge steam-boiler or tube, with rounded top and sides, capable of ges, knees ang pors fore gunwale fastenings, are entirely dispensed with.
Manufacture of Steel.-Tbe correspondent of the London Mining Journal in Rhenish Prus sia, expresses surprise that some of the capitalists in England do not turn their attention to puddling pig-steel, which in Prussia is mak ing rapid strides. Puddling both iron and steel with gas is very general in Prussia. In some instances the gas is obtained from the blast furnace, but in most cases it is generated in small ovens, attached to each furnace. Dry wood, chareoal, lignite, and turf are employed as fuel. At one of the iron works where wood is used for gas the charges are 8 cwts . of whit mottled iron each furnace, bringing out 20 to 21 tuns of puddled bars per week, at a loss o only 4 or 5 per cent., and with a consumption of 4 cubic feet of timber per cwt. of puddled bars. At another works they charge with 10 cwts. of gray pig, and bring out the charge in $1-2$ hours, with 8.70 cubic feet of wood pe arranged to puddle steel with gas from lignite to be converted into railway wheels and tires for which there is an increasing demand. These are forged under the hammer to nearly the required form, and then passed through a pair of rolls, to finish them

## The Niagara Frigate.

The coppering of this noble vessel was fin shed on the 12 th inst., and she was taken ou of the dry dock the succeeding day. During the time she was getting on her sheathing, at the Navy Yard, the Adriatic, belonging to the Collins line, was partly planked, launched sheathed, had her boilers, bed plate, and othe machinery pntin, and will no doubt be ready for sea half a year before the Niagara, although the latter vessel was launched some weeks earlier. Government jobs are slowly executed.

