51, 774 . - Apparatus for Graining Wood.- Robert A.
Adams, Chicago, Ill., assignor to himself Rand Edwin
Lee Brown, of the same place. Antedated Dec. 13, 1865 .
First, I clasim. ibe bollow elasticalr bag or drum tobe used tin a graining
manhine lis me maner and for the purpose substantially as above
described machine, in the manner and
degribed. The comblation of the said endless graining belt and elastic
Second. air bag used and operad.


 | of the |
| :---: |
| screw |
| screw |

51,775.-Method of Prefenting Incrustation in Steam
Boilers.-WM. Brown, Morrison, M1. assignor to




51,776,-Manufacture of Lenses for Spectacles.-Charles
Buckley, West Meridian, Conn., assignor to Charles
Parker, of the same place:

51,777.-Animal Trap.-G. E. Clarke, Racine, Wis., assignor to himself and Sylvester Bullen, of the
same place:
 connecting bars
purpos
s speciled.
TThis invention relates to a new and improved animal trap, designed more especially for catching rats and mice, and of that class which are belf-setting.]
51,778.-Elastic Syringe,-Herman E. Davidson, Gloucester, Mass, for himkeif, and as administrator of the Estate of C. H. Davidson, deceased, late of
Charlestown, Mass.: ${ }^{1}$ I claim the timproved elasstic syringe bulb having flexible pipes made 61,779.-Machinery for Grinding Knives.-William Fos-
ket, Meriden, Conn., assignor to The Meriden Cutlerv Co., of the same place
I claim a cyllinder arranged with fixed matrix or matices revolving
in tule manerer substantially an describel to
 arranged
51,780.-Turn-out Wagon Seats.-George Gregory, New
Haven, Conn. asssignor to Lawrence, Bradley and Pardee, New York City:

51,781.-Manufacture of Artifcial Leather.-W. W
Waite, South Natick,Mass., assig or to Flax,Leather Manutacturny Co., Boston, Mass.:
 52,782.-Post ge Stamps, Etc.-George W. Bowlsley, Monroe, Mich.:

I lasso clam the thereraration of the mails. in the manner substantiall
as described so that this may be done.
51,783.-Portable Hog Scalder.-Arthur Clarke, Phila delpha, Penn.:

 sibstantially as set forth.

## REISSUES.

2,134.-Door Bell.-H. H. Abbe, Chatham, Conn. Patented July 11,1865 .

 2,135.- Corn Planter.-John H. Alexander and David R. Alexander assignees by mesne assignments of

John Gross), Decatur, Ill. Patented June 6, 1865





 Firth, The arr ang Ing of the cut offs or or strikes, d, with springs or
elasicic rody
N', in the manner substantially as, and tor the pur-
 for the purpose specifled.
2,136.- Meat Mincer.-Albert $\underset{\text { City. Patented March 15, 1859: }}{\text { Wale, New York }}$







 2,137.-Cotton Picker.-George A. Howe, Brooklyn,
N. Y. Patented Dec. 4, 1855: I claim, First, In a hand cotton, harvester, an endless toothed



2,138.-Cotton Picker.-George A. Howe, Brooklyn, N. Y. Patented Dec. 4, 1855 : scribed. $2,139 .-$ Punching Press.-Norman C. Stiles, Meriden, Conn. Patented Jan. 26, 1864:
 ent, ronstructed and orerated in the manner and tor the purpose









## DESIGNS.

2,234.-Design for a Fan.-Gustavus Anton (nitsignor to himself, Jacob Hirner and F. Brurein), Fhhitdelphia, Pa .
2,235.-Design for a Masonic Group of Statues.-Wil-
liam Christiaenssen, New York City liam Christiaenssen, New York City.
2,238.-Deelgn for a Floor Oil Cloth.-James Paterson, Elizabeth, N. J. assignor to Edward Harvey,
Brooklyn, N. Y. Brooklyn, N. Y.
237.-Design for a Hasp Hook.-Samuel M. Richardson, New York City.
2,936.-Design 1or a Trade Mark.-William P. Wey-
man and Benjamin F. W. Weyman, Pittsburgh, Pa.
the following patents bear date dec. 19, 1865.
51,568. - Manufacture of Paper.-John W. Dixon, Phila delphia, Pa.:
I claim the process of treating wood or other vegetable sub
stances by boiling in poda ash (carbo nate of soda) under pressure
 cancen, subetantialiy as described.
1,569--Process for Bleaching Paper Pulp.-John W. Dixon, Philadelphia, Pa.:
Iclaim, First. The procesg, of bieaching pulp by the action of a
solution of chlorne or chloride of lime at a high temperature and
ander pressure. second Girculating the bleaselung solution through the mass to
be bleached in the dikster wtile bigitl heated, snd ind
 Third, $\mathbf{I}$ claim pulping, washing and bleaching wood, straw or
other vegetable fibrous material, in the same digester, under press-51,570.-Mannfacture of Paper Pulp.-John W. Dison, delphia, Pa.:

 51,571.-Manufacture of Paper Pulp.-John W. Dixon, hiladelphia, Pa.:
Frrst, I clalm the combination of a pump. P, to fore highly contained in a digeoter with a strainer and an exit pipe for the es-
cape of water at the bottom or the digester, stratined from the
Woody fber gecond The combination of a pump, P, for forcing beated fresh

 into the digester containing the vegetable fibrous mater ial to be
pulped oynghy heated water undr pressure, with the interme-
diate beatlig boller, $K$, or its equivalent, in which the fresh water F hasiad by the orcapitk efrete water rom chat digester. for forcin fresh water into and through hle material in the digester
to be pulped by highty heated water under pressure, the heating
tank, $\mathbf{K}$, or its equivilent, and the coil, $R S T$, or its equivalent,
 T $N$ and internctlate tubrg for forcing into the digester heated
fresh water and the pump, $X$, or producing an auxiliary circua-
llon of highly heated water from the bottom to the top of the di-51,572.-Process for Making Paper Pulp.-John W. Dixon, Philadelphia, Pa.
I claim the process of treating wood or other vegetable fbrous
substances by boiling in a solution subatances by boiling in a solution of caustic. .lime under pressure
sa a process or preparatory proce ss for mak ing pulp for the manu.
facture of caper from wod, straw or othor vegetable substances, lacture of raper from wood, straw or othdr vegetable substances
substantially as described.

## 

. T. B. asks :-" If a patent is granted tor a composi tion to be used in the manufacture of certain articles named in claim, can the holder of the patent sell the right of territory to manufacture one or more of those articles without invalidating the balance? For instance, I have taken out a patent for the manufacture of picture frames, busts, and other ornamenta work, besides match plates and follow boards in founderles. Can I sell the right of territory for match plates and follow boards, re serving the remainder, without invalidating the claim to the other portion of $m y$ patent?" Ans.-Yes. You can subdivide your patent and sell as many different rights as you choose. J. R. W. asks:-"Will you have the kindness to state the best apparatus for an amateur photographer; also the best process?" Ans.-For an amateur the best instrument will be a stereoscopic, so that stereoscopes can be taken, or single pictures commonly practiced in the galleries, and after becoming famillar therewith, take up the various dry processes, of which the tannin process is the best. In elther process the frst thing to be learned
is to makenegatives. Thencomes printing. In the latter braneb
eproduction of porcelala plctares will be found very simple and eresiag. Buy your apparatus from the first estabilishmen advertisemeat you fad la the scien ho american
H. W. asks :-" Suppose a man has two patents, both designed to accomplish one object, but one or either can be used independently, can he sell one for any special purpose, and ye eserve the use of it for other purposes?" ans.-Yes. "Suppose man has one patent adapted to two or more different purposes, aso by a blece, a furnace which may be used by a chanic and reserve the right to himself to sell for other pur poses?" Ans-Yes.
J. F. asks:-"If one or more of a certain person' claims, in a combination patent, can be used by another party in another combination for the same purpose, or for another pur pose, can it be done without frst obtaining consent?" ANs.-We do not fully understand the above inquiry. What do you mean by a combination patent? No person can use a patented device without the consent ot the owner of the patent.
. H., of Kansas.-A good "dip" for cast brass is sulphuric acid. 1 qt. ; nitric acid, 1 qt.; water, 1 qt. Gold lacquer for undipped brass is alcohol, 4 gals.; turmeric, sibsi.gamboge, 3 oz sandarach, 7 libs.; shellac, $1 / 8$ lbs ; turpentine varnish, 1 pint Green bronze dip is wine vinegar, 2 qts.; verditer green, 2 oz ; sal ammoniac, 1 oz ; salt, 2 oz ; alum, $1 / 2 \mathrm{oz}$; French berries, 8 oz . boll together.
C. C., of Pa.-A horse-power is the power that will alise $33,000 \mathrm{lbs}$. one foot in each minute; $33,000 \mathrm{lbs}$. of water falling ne foot in each minute exerts one horse-power. A cubic foot of fore multipls $62 \frac{2}{2}$ lbs. To get the horse-power of a in minute by $621 / 2$, and by the height of the fall in feet, and divide by 33,000 ,
G. L.-If you correspond with the advertisers of the mills which, from time to time, you see in the SCisNTific Ameri , woumill get the information you desire
W. T., of S. C.-British subjects can obtain patents on the same terms as $\Delta$ mericas citizen
T. H. Mc. asks :-"If an inventor assigns an invention so another party, on condition of receiving a certain sum when the patent is issued, and if the assignee transfers the invention to a third party, whose interest it is not to have the patent issue, can the inventor apply itdependent of the other parties and take out the patent"" ans.-Yes. It is not new to attach runners to Wheeled vehiches, as you propose.
D. F. W., of R. I.-We have found ground slippery elm very efficacious in preventing scale, such as forms in vour bollers Try it. The scale you send us seems to be chiefly mud. You mightprevent the scale from entering the boller by putting inne ure on this orush, and thus purity the water before entering the boiler.
W. P. B., of Wis.-For your varnish recelpt see another
 observations to determine the relation of suci saturation it changes in the weather, and we are not aware of any such series of observations having been made.
C. R. A.. of Pa.-You will find minute directions for making an electrical machine in "silliman's Philosophy," and in ome cheaper school philosophies.
A. C. T., of N. Y.-There are schools of mines now connected with Harvard, Yale, and Columbia Colleges, but we know of no college in which mechanical engineering is taught as a separate course.

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