## Exicmific American.



Reported Officially for the Scientific America
LIST OF PATENT CLAIMS



 strument from turning the whole b
and acting substantially as set forth.
 I claim the ssries of radial wioged and dipotted gates
for prevention the mater, acted on by the padales.
foe prent
 proper time
described.
 balls betwen the two plates o.
and for the purposes specififed.
PIANoporiss-By Wm. Compton, of New York
City : I claim making the periorated briage for the




## to thate nufacture

[Would Mr. Daniels consider any person infring. iog his patent, who toos his axe and cut twigs and brushwood any length he chose, and used them for
fuel? We believe this would not be an infriogefuel?
ment

 action as assesibeb, and thite oombination of thenes
corrugated parts with the anonular cylinder between corrugated parts with the aninuar
them and the hub, as deerribed.
 bed of making gigars, , viz, by come cionangeriteserib the
cutters and followers which cut off and feed in the



I Ialioo claim the making of the roller which' feds
in the wrapeer, of less diameter than the rollers

 per, atad wiodiog it more
subtantialty as described.

 ner
combin
fed.

 tially as described





 or oner raso we groveded or plain heated deteam pipes
or rollers, for removing their elasticity, smoothiog aud condensing them, whilst in a state of proper
teusion, substantially as described.

 tuou of having s sigle air chamber supply all
of the same note or tutter in the differeut stops. And Gually, we clatim the combination of air cham.
bers suca a a are derectibet, with valves con unicu: tiug with the several pipes. and operated by mencha
nicul agencies, such as are shu mu, substantially as described



 aud securio, it thereiu by a nut which emprotest the
seerall sectons, and which becures them within the sereral sections, and which becures then
hub or pipe box, substaatially as specified.


 operated by a sweep or bome othur devicice conne
to or operated by a crank cam or otherwise.




 posite direction to tha
swing when left free.
Parparations or Arohic-By Leon Jarosson, of
New Yoric City: Iclaim mixing and treation lich ocellus with a volatile alkalit; urine and and clear and

[The lime is all that is new in this; soda lye is etter.-ED.]
Joiving STAves-By Rdwin Jeney, of Middle
borough, Mass, $\&$ David Rood, of Boston, Mass (as



 applied t.
specifod.
And in And in combination with the lever, as applied and
operated in the manoer above set forth, we claim the meebanism by which the fulcrum of the 1 ever
R caused to mo e longitudinaly or towards the cam Ior the purpose of producing the effect, equivalent to
horteniug the reararm of the :ever. and li laythe ing the front arom thereof, wherehy the cotter head
is made to depart further from the midalle of the mais made to depart further from the midale of the ma-
chane, so as to increase the curve of the bige, or
make ot make it as it weree. with a diminioted radius, such


 we eages of the bilge, as explaided


 the saddal
set forth

 and revering, forming, and insertiug the latter
whereby $I$ make and firmy a futtached oliud staples in their proper positions, substantially as de eribed.
Secono, $I$ also claim the See ond, al also claisim the pivotted clenober,
ged and actuated substantially as described.
 bail orbalancorine (or the usual shape) with the
cock eye of the spinde, uy means of the inverted bearing cup, whose shauk presses up through, and is
nade fast in the centre of the said bail a a did mose



 saribed, by which they can be taken out and rephaced
expeditious $y$.
 Tha, etamper, subytantially as as described to to keep up
the
aniforwity of weight as the stamper wears, as set forth








 chaia band, having accommodatiog spee-formed
fonger or rakes, workio on pivots and natached
theteto, substantialy is described.
 betwen a a an
a, deseribec.
 ticketz of cioth and paper, stucs and pressed toge
ther, substantially as described.


 toms within the cans conoected to the rod which
puss through the tubular jointalls of the can fraies,







 pactiy presed ioto the cans.
Boatth, I I
also claim the





a rotating hook, which is of fuch f orm, or forms part
of a disc, or its
of equivalent, as to to
oxiend the to lop
 together, the parts heing arranged and operatiog in
any way substantially as set forth. STAnpriva Orss-By Virgil Woodeock, of Swan-
zeg, N. H: I claim the combiation and arrange.

 made to operate or alternately raise them, disenguge
hem, allom





 ubstantially
Detaciso
 struciling the bames, the saddle-tree guara, ani stop,
as deceribed so as to enable the driver, at any time,
 buggy carriage
ierk of a cord.

Remarkable Voyage in the air.
John Wise, of Lancaster, Pa., male his 131 st aerial voyage from Portsmouth, Ohio, on the 3rd inst. His balloon voyage was a remarkable one, and the grandest he ever performed, sa far as magnificent sights are concerned. He ascended a little after $40^{\prime}$ 'clock in the af feet. While slowly sailing along at this elevation, by the range of a hill in Kentucky, three rifle shots were fired at him, one struck the car, but so very lightly that it did no harm. He believes the striking part was
mere chance. Those who fired the shots, we have no doubt,did not imagine that there was a person in the balloon. Some exceedingly useful meteorological information was obtained by Mr. Wise in his voyage. These he states are as follows :-
1st. Thunder storms have two plates of clouds, the upper discharging the contents, whatever it may be, rain, hail or snow.
2d. Sheet lightning of an orange color undulates silently between the upper and lower loud, in a waving motion.
3d. The discharges of electricity take place in the lower cloud, (by discharges are meant hunder and lightning.)
4th. The distance between the upper and ower cloud is not less than 2,000 feet, (this mere eye measurement.)
5th. The uprising current was not continued higher than the lower cloud, and was rising and whirling as long as I was.in the margin of the storm, being in it twenty-five

6th. The storm was much wider belo than above, and the deposite diverging at east 25 deg from a perpendicularline.
7th. The deposition of hail and rain was thickest in the centre of the storm. I could not, of course, look through it, but I viewed one from its front, the other from behind its ine of direction, and they both appeared the same.
8th.
8th. Under the shadow of the upper cloud quit

9th. The upper cloud was moved by the current which always blows from west to 10
Oth. Other causes than the upper current may affect the horizontal course of thunder torms so as to increase or diminish their vio. ence.
I mi
.
I might deduce some data from what was o distinctly observed on this occasion, but will for the present leave that to abler heads, and particularly to Prof. Epsy and the Smithnian Institution.
Mr. Wise enjoyed the grand and terrific spectacle of looking down upon a war of the ements upon a scale of grandeur far surpassing Waterloo. We advise Prof. Epsy and Dr Hare to make a number of aerial voyages to settle their disputes. We think it would be a grand plan for them; much better than writing and printing long papers on the subject. Let them get up into the regions above along with Mr. Wise, and make observations. This point might be very useful to the Smithsonian Institute in getting meteorological information.

Lightning plays strange treaks. On the

Thompson, Conn., was struck and badly inwith. The telegraphic wires, which pass within a rod or two of the church, seem to have had considerable influence upon the flu-
id. Two of the posts which sustain the id. Two of the posts which sustain the wires were split, and the wires for some distance thrown to the ground. The lightning rod of the church, by some accident, had been thrown out of place.

Extension of a Paient.
On the petition of John Brown, of Stoning. ton, Conn., praying for the extension of a patent granted to him for an improvement in affs of sailing vessels, for seven years from the expiration of said patent, which takes place on the 31st of Dec., 1852 I
It is ordered that the said petition be heard at the Patent Office on Monday the 26th of July, 1852 at 12 o'clock m. ; and all persons re notified to appear and show cause, if any they have, why said petition ought not to be granted.
Persons opposing the extension are required to file in the Patent Office their objections, specifically set forth in writing, at least twenty days before the day of hearing; all testimony filed by either party to be used at the said hearing, must be taken and transmitted in acordance with the rules of the office, which will be furnished on application.

Thos. Ewbank, Com. of Patents.
Washington, June 14, 1852.
Tunnelling the Hoosack.
A correspondent of ths Springfield Republican, of the 14th inst, gives the following account of the state of operations at the projected Hoosack tunnel:-The boring machine is on the ground, but as yet hardly resolved into its component parts. A mass of castiron pokes, cogs, wheels, shafts, belts, \&c., \&c. lay around us, out of which the workmen were slowly (for nearly every piece required $\therefore$ derrick and puileys to get it into place) re-constructing the ponderous wonder. The carriage for operating the machine is in place, facing a perpendicular side of solid rock, just off the actual line of the road, which has been prepared for the first actual experiment. The mmense shaft was being hoisted into position companiments, and then the driving power which consists of engines of one hundred horse power, and for which a bullding was being erected. There have been many delays in getting the machine upon the ground, and in place, and we are told it would probably be six weeks atleast before everything would be ready for a start.

Machine for Turning Irregular Forms
We understand that Thomas Blanchard, of Boston, has assigned his patent for turning spokes, lasts, gun stocke, and other irregular
surfac?s, to the Hon. James M. Quimby, Mayor of Newark, N. J., and proprietor of the celebrated coach manufactory of that place, for a good round consideration, and that the purchaser is so.well pleased with his bargain, he has presented the lady of Mr. Blanct. ard one of his best family coaches. Several have written us of late respecting this machine, and the above will furnish information not in our possession heretofore.
American and British ©hips-A Challenge. The Boston Atlas states that two or three Boston ship-owners have sent a challenge to the ship owners of Great Britain, somewhat to the following effect:-The Boston parties will produce a ship, not less than 800 nor over el of the same capacity, now built, or which may hereafter be built in Great Eritain; the winning party to receive $£: 0,000$, and the ace to be a voyage to China. This will put the British shipwrights to their metal.

## Nautical Enterprise

Among the miracles of navigation, in these days, deserves to be mentioned that a schooner of 150 tons is to leave Port Stanley, on Lake Erie, for Australia direct, in August; she is to be fitted up in yacht style, and it is deemed that she is quite adequate to the voyge that she is to undertake. She will pass through the Welland Canal into the St. Lawrence, and out of the St. Lawrence into the Atlantic. Whether the Port Stanley people intend to run a r
are not informed.

