

Reported Officially for the Scientific American LIST OF PATENT CLAIMS Inued from the United Stater Patent Offic for the weri bmdisa may 11, 1852




 that pock
cifed.



 rais, that is to say, the oovetains entering the mor-
tises from opposite ends of the cot frame, so that
they cannot readily loosen by use.
 shall tend to tighten the joint, as the legs zeparate
from each other, or loosen the same as they approxfrom eac
imate
Fourth Fourth, I clain the combination of the tense bars,
hatigr right and left seremp, with the side rais or or
cot bed, for the purpose of keeping the sacking bot having right and left serews, with the side rails of ${ }^{\text {and }}$
cot bet, for the purpose of keeping the sacking bot-
tom tense



MRAT Cotrris - By Wm. Burns, of Rome, O.: I I
do not claim as new any of these parts, seearately




 ving at a greater speed, fo
red fineness, as describod.
 structing a faucet for measoring and drawing molas8-
os, honey, oil, tar, or other liquids, as that thes shall

 stantaneosty, sam, eis
My an deseribed
Brushrs-By A. R. Davis, of East Cambridge,
Mass:
I claim the described improvement in



 or
vith or ors. oncoussion, to
the block, as stated.
 more, Md. I Ilaim the applicat
to the cooking pot, as described


 ver of an ordinary air pump, or other suitate in in-
strument for producing a vacuum, the bent form of the tube bringing it to bear, during its rotation, up.
on the perimeter of the circular disc which closes on the perime
the aperture.

 manne
bed.
 sector, or theire equiralents, in combination witit the the
revolving head and face (or gradaated plate) and








 charge is poured ia, and during theo, opration of
forming the pipe, the vibrations of the ram do not practically a affect the ect.
the dies, as specified.
 equivalents, in combination with the pirial, springs,
or their equiralents, the whole being constructeat

 lents, in combination with the fies, for the
of lowering the table eleaves when desired.


 with tother paran
tian y the than
and described
Masi ToNa-By Robt. Wicks \& James Faulkner,
 pletely enveloping the mash tun with water, or suff
fcienty so to produce the desired rapidity, in cool-
in ing the mash
ing

 equivalents. in combination with the piston, and the
bor, the kinet llevers and pisto theing constructed,
arranged and box, the knife, levers, and piston being constrycted,
arranged and operated in the manner and for the
purpose sustantially as described. rome




 stantially as ast forth.
allos claim cone
I also claim connecting one or both of the reels,
in each frame, by means of slides, to admit of remoTing the reel from contact with the yarns, whists in
the process of dyeing, substantially as specified. Coorizag Stoves- Dzs icss. ( ( Barstow \& ( 0 .) Cookisg Srovg-By Hosen M Huntley, (assignor
to David 1 . Woodrow) of Cincinnati,
[In the e above brief list of patents, granted ] last week, we feel a pride in trating that six
number were secured through this office.

## The Omnibus.

The omnibus is the perfection of clumsiness in every way ; and considering all thinge, it is amazing that so little has been done to re lieve it of its lumbering weight and remedy its petty conveniences. Its errors may be thus enumerated: -1 st. It is double the weight it need be. 2nd. The "vis-a-vis" fashion of seating passengers wastes room. 3rd. chokes by confined air in winter, and in summer it affords the worst circulation of air with the best system of passive martyrdom. 4th. The unseparated seats fosters rudeness. 5th. The huge wheels and general contour are of a barbarous age.
This is a catalogue of points to spur inventors. Now, as we dislike carping, and have dies.
The Irish outside "Jaunting Car," that is, (or was in use in Dublin some years ago), presents to our mind the basis of a sound conception of the perfection of a street carriage for this climate. The axle is short, the wheels are low and play beneath the elevated seats, which place the passengers "dos-a-dos"
facing the side walks. The step which facing the side walks. The step which tone the foot rest is on a length of the car on each side; there is no top In this climate covering from the sunshine is necessary as well as from rain daring six months of the year; but then light and picturesque awnings would entirely answer this
purpose, with such extra provision as,may be purpose, with such extra provision as,may be
suggested in case of rain. Why shall we for suggested in case of rain. Why shall we for
ever drag about so stupid an over-weight, and so suffocating a dish cover, to serve us only on occasions when rain falls? Each seat can readily be made separate in this way, and kept closed by a light sheet-iron ornamented apron, to be opened by a spring from the coachman's box, and this movement might be used with a neat machine to register the number of passengers which daily may ride in the said carriage. The nuisance of a bundle or basket would, in this way, be confined to its owner. Gentleman and ladies of the heavy cing themselves, instead of squeezing thei neighbors; in short, a new omnibus, constructed after some of these suggestions, would be like universal suffrage and vote by ballot in England. We need say no more ; the hints given are surely enough for any man, and for you, Messrs. Yankee Inventors, it will surely be an easy matter to place the clumsey omnibus " hors de combat," and construct a tasty, convenient, and good new public street carriage, and about a patent, you need have no ars of that.

Antirax.
Philadelphia.
Surface Cosl.
A great coal mine has been discovered in Kentucky, seven miles back of Cloverpark. The coal is found on surface veins. The district of land was first sold for $\$ 5$-per acre
purchased by a speculator for the sum of $\$ 10$,000 . He has since sold out to the present owners for the handsome sum of $\$ 100,000$. The mines have been worked but very little, and are almost inexhaustible. The coal burns panied bas, and imparts great heat, and is accom ily ignite as a candle, and the steamboat men use it instead of pine wood for torches.

Something New and Important, if True.
We extract the following from a letter from Baltimore to the Washington Telegraph :A young man named Force has been residing partly in this city and partly in Washington for some months past. He is originally from St. Louis, but more recently from Texas. I learn, upon what may be deemed good auth ity, that he is about to become distinguished as a mechanical genius. He is said to have invented and patented a new motive power, which bids fair to supersede both steam and water. It is stated that a model of the machine is already in existence, and that it has been patented with an injunction of secrecy for a certain time. So cautious has he been to avoid infringement, that he had one part of the machinery necessary to the completion of the engine made in New Orleans, another part in Baltimore, another past in Philadelphia, and another in New York. The separate parts thus constructed were, in due time, collected in Baltimore, and put together by the inventor himself in a room into which no person has been permitted to enter.
It is asserted that the machine worked to the full satisfaction, and beyond the expectations of those most deeply interested in ,it. I have had an introduction to, and some conversation with, the inventor. The only idea I could glean in regard to his invention was, that it brought the atmosphere into use as a powerful motive agent, amounting almost to independent self-action. It is asserted-and the truth of the assertion, of course, will be established or falsified when the invention is made public-that this new momentum can be increased as to propel the largest ocean steamers, or brought down and suited to the delicate movement of a watch. Nothing will be found to bear the slightest comparison to it in point of utility and completeness as a motive power.
The inventor is quite a young man, with good common sense and much shrewdness though of moderate education. It is his pur. pose, I am further informed, to proceed to Eu rope and obtain patents there; and that he does not design having the patent or principle of his invention made public here until time has been allowed to secure it from piracy in other countries. Some three or tour distinguished gentlemen-men of wealth and infuence-arepecuniarily interested with him in the patent. One or more of them design ccompanying him to Europe. They set sail probably in June next, and perhaps a month or six weeks subsequent to their sailing the patent or model will be exhibited in the Uni-
ted States. I can only say if the invention ted States. I can only say if the invention
proves to be what is claimed for it, the world proves to be what is claimed for it, the world
up to this age has never seen its equal. We shall await patiently the wonderful development; and in due time award the distinguish ed author full credit.
[The above we copy from the United States Gazette, which sensibly does not endorse anything about this wonderful invention. It will turn out like a great number of other blowing nventions which, within two years, have been heralded with loud trumpet-tongue. About the patenting of it, nobody believes that who has any acquaintunce with these things. The idea of bringing "the atmosphere into use as a powerful motive agent mounting almost to independent self-action is very good but nothing new. A self regu lating wind-mill, for example, is a powerfu machine according to its size and the velocity of the wind. Air engines are nothing new the hot air engine of Ericsson is not new in principle, for Stirling patented one in 1840 , and has had it in operation for a number of years, and in 1846, in a paper read before the London Institution of Civil Engineers, he claimed to pended on steam engines, by using the heated ar over and over again, by using two vessels
one at a high and theother at a low tempera-
ture, as described on pages 134 and 142, Vol. 3, Scientific American.
We cannot say, with the concluding words of the foregoing extract that " we will await patiently the wonderful development, and award the distinguished author due credit." We have no patience with such trumpeting, and we notice it to prevent, if possible, Hilleotype and Remington Bridge excitements.

## Vegetable Origin of Coal

Geologists are now, from recent discoveries and observation, in a tolerably safe position to prove not only the vegetable origin of coal, but ot the comparative geological period at which the several deposits were formed. The theory of the vegetable origin of coal is founded, first, on the regular mineralogical gradation, traceable from bog, wood, or peat, through lignite and common bituminous coal to anthracite, on evidence showing that dead vegetable matter, under proper conditions, undergoes consecutive chemical changes, which convert it successively into these several descriptions of coal, and on the constant presence of vegetable remains in rocks of the carboniferous period, and the vegetable structure of the coal itself. In peat there is the organic structure as perfect as in living wood; in lignite the woody fibre is still marked, but less obvious, while bituminous coal obeys the law of true rock or mineral cleavage, in which no vestige of vegetation is visible to the naked eye; but let a thin slice be placed under the microscope, and the most beautiful vegetable structure is apparent. Trees have been found in tertiary beds, having one portion in the state of bog-wood, and another in that of true coal and in the north of England the compressed stems of trees, of enormous leagth, are exposed in all positions; gigantic reed-like forms in a crushed state, are profusely imbedded in the solid rocks; ferns, with their delicate nerves most beautifully preserved, are to be seen in countless numbers, while here and there may be observed the under part of gigantic roots, their branches radiating to a distance of 60 feet from the parent stem, and their surfaces thickly studded with long fibres, shooting in all directions through the now consolidated mud. With respect to the periods of coal deposit, they are now generally considered to have been widely various-that of Oporto is supposed to have been formed at the commencement of the Silurian division of the primary period-that of Great Britain at its close. The coal of Virginia, U. S., belongs to the middle division of the secondary period, while those of Piedmont, Tuscany, and other parts of the south of Europe, are undoubtedly deposit of the tertiary age
[The above is from a correspondent of the London Mining and Railroad Journal, and it enurciates what nobody contradicts, respecting the materials of which coal is composed, or rather was composed; but, then, is it not a more difficult affairto account for these vegetables. It may as justly be said, freestone is of vegetable origin, if we take the appearance of certain stones for proof positive of its primary state. We have seen, and so have thousands of others, "stone trees," with their branches and bark as perfect as when they stood erect and braved the driving storm.There are many peat bogs in England which have been formed since the Romans were in that country; some of them are very deep, and produce hard black peat. These can easily be converted into coal by heat and compression. In some parts of our country we have coal near the surface of the ground, and there are some kinds apparently half coal and half peat. With respect to certain periods and formations of those periods, it is very unsatisfactory, excepting for classification. We have certain formations in different parts of the world, but these formations are but simple facts which have to be accounted for yet themselves.
Philostratus relates that the knights of Lybia, at a certain time, fought upon elephants, some of which had a tower engraven on their teeth; and when they were separated by the night, such as had the tower were beaten, ard fled to Mount Atlas; and that Juba, King of Lybia, 400 years after, took one of them, which had this ensign so lively engraven as if it had been done lately

