

Reported Officially for the Scientific American LIST OF PATENT CLAIMS
 Hemp Brakes-By L , s . Chichester, of Williams.
 and cleaning cylinders, with fixed rods at or near
their peripheries, and radial plates, made to slide ra-

 locities, and so placed, that in their rotation the
rods and plates of one cylinder shail coome opposite
too those of the othe clinder for the purpose and
in the manner substantially as set forth.


 being pr
slipipg
scribed.
Grass Burners-By Jno. A. Craig, of Columbia, Ark. : I claim the application to the surface of the
ground , flame for argicultural purposes, using, for
that that purpose the described machine, or ang on other
subtantatily the same, which will, by heat, produce
the intended effect.
Fredrrs for pianivg MAcings-By Jno. Cum-
berland, of Mobile, Ala.: I claim the described combination of a bed-pieece with the spring lever, eon
necting rod, arm, tumbler, and clicks, and its grooves, necting rod, arm, tumber, and a ilicks, and its groves,
guides, and rack, with a movabie platform, with the adijusting lereers, and ratenets, for the production of
a liateral traverse and lost motion, with its ad justa-





to give access to the basin and sewer.

 When the door iscl osed. But we claim the applica-
tion and mechanica arrangement of o curve in con

 GAs PDifying AppARATIS-By Abram Longbot-
tom, of Nef York City I I claim purifying the gas by passing it through a mixture of equal measures of
quick-Ime and of animal charcoal, in the same re-
que

 ereo heatt, and
compsith,
ly as set forth.


 valveso.
Becribed.
I Alie. TrRE Arus-Darid Philips, of Sharon, Pa.:

 Concentrated Bekr MATrRiAL-By Franz G.
Rietsch, of Rudoletz, Austria: I claim the new and Rietsch, of Rudoletz, Austria: I claim the new and
usefull preparation of matter described, termed Zeil-
thoid.



 bined with the attachment of the cheerss, in seg-
mentat, to the wide faces of the straps, substantianls
as specitied And we also claim making the cheeks of ships
blocks in segment of a ring substantiall
fos speci-

 cleaning and oiling,
sheave, as set forth.

 claim the lower truck or ramp supportad upon the
rails, and preventen from rising bypoved inclined
wheels fitting to the edge of the rails, and connected to the truck bs and bodys of the car, by serien onf fink
and rods, substantially as described and operating
and

And I also ol claim the forked guard, provided with
elastic bands, and at ached to the lower truck, so elastie bands, and atached to the tower truck, so as
to move up and down freely but formed os os to
take a firm bearing, or rest, on the front ax 1 , or any stationary part of the front truck, when brought in
to contact with any obstruction, substantially as set

forth. | to con |
| :--- |
| forth |

RuvNing GIAR OF CARRIAGRS-By Chas. F. Ver-
 plate attached to the perch block of the body, and
slidi iag on the plate, in connection with the rods,
$\left\lvert\, \begin{aligned} & \text { their action, constituting an arrangementof running } \\ & \text { gear constructed substantially in the manner set } \\ & \text { forth. }\end{aligned}\right.$ gearr
forth.
SIrerrivg Apparatus-By N. W. Wheeler, of Burf.
falo, N. Y.: I claim the combination of fast and mo ving circular racks of difierent diameter, with cor tor
ressonding responding planet wheels or pinions, eonnected to to
gether and actuated by the band whel, as set forth Briposs-By Ammi White, of Boston, Mass. I Ido
not claim, separately, as new, the mode of construct
 ${ }_{t}^{\text {the }}$ deser
cres
of th
of the


 tages specified. But 1 clain, frrst, the combination
 ienary form, and constructed and united in pieces,
as oxplained (the outet ends of the extreme tirig
rss biein






 wardst the support of its own weight, and the
many beotexded over a considerable space.
Second, hhe continuons angular side


 races to reduce the elateral motion, but as a coveren
ratincy, and to brakk the efiect of wind upon the
structure. $[$ SSe engrav
Vol. Sci. $A \mathrm{ma}$ ]





## [For the Scientific American.] Houses in Towns.

I cannot look around me, in any town through which I may happen to pass, without being struck with the heterogenous masses o brick and wood which disgrace its appearance there is a brick house struggling into respec fronts, giving the splendor of a palace to a few square yards of front walls, while the rea ones are rough, ragged, and tottering. In ano ther part are to be seen wooden tenements of respectable appearance, but ready to be igni these, like rooks among doves, are to be seen hovels, occupied by those whose means are limited, and by their dwellings afford evidence of poverty and suffering. I think we can do better than this; can every man have a house of his own? Yes, say both the philosophe and the selfish man, though facts and common a suitable against them. Can every man build ment, fit for the moral and intellectual man to live in? Yes, say all, in the teeth of the ab
surdity. Practical lifedisproves surdity. Practical life disproves both of these
expectations, yet the world hopes to accomplish what I may call a natural impossibility It has always struck me, that, as we want two
things-solidity and beauty-solidity for its things-solidity and beauty-solidity for it
manifold advantages of warmth in winter and coolness of summer; and beauty as a moral principle for elevating the mind-the residen ces of many should be constructed in a differ ent manner andon different principles. Look ing at some of the miserable cages in which I see vast numbers huddled together, one can not but be humiliated at the idea of their nea In some places in Europe there is a nearer approach to the proper system, though it is not carried out as it ought to be : a large "Hotel,' '- a palace in appearance and extent, will contain apartments for twenty, thirty, or a
hundred families, and these of all classes. The hundred families, and these of all classes. The tal, may find that he resides in a palace, al though his room or rooms may occupy buta very small portion of $i t$. I see no reason fo not improving on this system.
Yesterday, as I surveyed our noble Paten Office, I fancied I saw in its mode of construc-
tion and form, something that might be fol-
lowed out in the construction of edifices for the dwellings of all classes. The system appears to me to be more republican, and would be more commodious to both rich and poor than the general system of isolated houses. Such a building might be fire-proof,-heated
on a general scale in winter, well ventilated, and have a magnificent entrance, like that of the Patent Office; or a.central hall, as in some square buildings, and which should be a public one for meetings, soirees, \&c. This public hall might be splendidy decorated, fitted with galleries, and the floor inlaid with wood of various colors. As a specimen, I would mention that of the Reform Club, in London. The intelligent architects of this country, employed by associations for building edifices worthy of the people, would soon devise a thousand beautiful and different plans. I merely throw out
the suggestion, because buildings, elegant in the suggestion, because buildings, elegant in
form and architecture, solid in construction, commodious and well ventilated, would not only be an ornament to our cities, but a blessing to the people. Associations could get them up economically, taking all things into consideration. The money now spent inconstructing a hundred houses of every size, in convenience, and ugliness, might rear a gor-
geous pile-a pleasure to those within and a geous pile-a pleasure to those within and a
picture to those without. To those of limited means, a comfortable residence at a cheap rate, in an apartment warmed in winter, at a charge borne by the general rent, would be nestimable. How many gentle people, born and bred amid luxuries, and unable, by the greatest energy, to turn the tide of fortune, are driven to perish in the vilest haunts, paying
dearly even there for a lodging. There are dearly even there for a lodging. There are philosophical as well as economical considerations in the suggestions which I have thrown out. Our present system of building houses, in general, is a selfish error, and costs us dear in purse, health, and morals. I do not suggest that all the world should be forced to live to gether in edifices of a uniform character. I propose profitable, convenient. sociable, and picturesque styles of residence for rich ade Republic, and conducive to public health wealth, and morals.
C. L. A.

Washington, D.C

## Anchor Ice

Messrs. Editors-Your correspondent's emarks about anchor ice being found only in witt shallow places of water, is clearly mistake, as I should be able to show him if he were at this place; it is quite common, in drawing my fish in the morning, after their
being sunk in twenty feet water, and that too where it does not move at the rate of half a mile an hour, to find them almost a solid mass of anchor or bed ice, and sometimes other fish whish encrusted and fastened in the mass in almost any depth of water and at a very ra pid rate, the cause of which, to my mind, has never been satisfactorily explained. The rising or rather the letting go of the bottom, is equally rapid; I have known it to be a foot thick all over the bed of the river, or as far unknown, would entirely disappear in less than an hour.
B. M. Douglass.

East Springfield, Conn.
Selling a Patent that is no Patent. I deem it my duty to inform you how the Patent Laws are disregarded. I made a machine for loading logs on a wagon, by placing timbers lengthwise of the wagon and the bolsters, and to be even with the top of the wheels. I placed a windlass on the side by a slide meshing through the side timbers. A ver the log and ark the wagon. Azra Lyman came to me and got an assignment to try and obtain a patent. He made the application and tailed. He then went to Indian and sold rights. The first I knew about it, was the reception of a letter sent to me by a man in Indiana. He stated he had bought a right, and I obtained the certificate he received from Ezra. It is stated in it, that I obtained a patent in September 1849, which is un founded. The machine is the best I have seen for the purpose, but people should b prevented from imposing on the public.

Prilander Gilbert
Co., O., Jan., 1852.

Scientific Memoranda.
" Pocket Stoves.-The Milwaukee Advertiser says that a gentleman of that city has invented a spirit stove which, while only a foot square, will warm any ordinary sized room. It weighs less than ten pounds, is convenient for carriages, cars, and even small ones may be carried in one's pocket of a cold day, and producing neither soot, smoke, nor ashes, might be made as ornamental a piece for personal ear as a watch or breast pin."
[We know such portable stoves were employed twenty years ago, and were used by hunters for cooking when in the wilds, chasing the wild deer and driving the roe.
Bursting of a Stove Boiler.-The New Orleans Delta gives an account of a young Irish girl, named Nolan, who was employed at the house of Mr . Charles Bridge, at the corner of Prytania and Third streets, Lafayette and was killed by the accidental explosion of a stove boiler. The boiler was in a kitchen range, under which the girl had made a fire a short time previous to the accident, and either in consequence of too short a supply of water, or improper confinement of the steam which was generated, the explosion took place. A fragment of the broken stove cut off all the front part of the poor girl's head, and death was, of course, the almost immediate result.
The Quadrant Superseded.-The San Francisco Pacific states that the Rev. Tyler Thatcher has discovered a new and superior method of determining the latitude and longitude.
"His method of determining the latitude, by a single observation of any heavenly body, seen by night or by day, either on the meridian, or at any angle with the meridian, is pertectly geometrical, and as obvious and certain in its results as any case whatever in spherical trigonometry. He employs the same observations also to fix the longitude. The method by which this is done is partly geometrical and partly arithmetical ; but as plain and certain as any demonstration in Euclid's Elements, or any sum in the Rule of Three." We hope this will prove all that is claimed for it; but we are tardy to believe in such things, for we know that a great many discoveries have been brought forward, claiming the very same things.
Comprehensive Minds.-The Rev. Henry Ward Beecher recently delivered a lecture in the Tabernacle, this city, on the "Law of Precedents." In respect to mental qualities of races, he adduced the following :-
"In a recent report of English education, it is proved that one nationality is distinguished from another, in the sphere of mind. Men of all nations have been tested. French, Italians, Germans, English, Scotch, and Irish. In each nation men are to be found of equal capacity to do a thing, to execute a plan which they see before them. But no nation can plan like that of the Scotch. They have, above all others, the faculty ot comprehension."
Wine-The Western Horticular Review contains a letter to the Wine-Growers' Association, by N. Longworth. He says there are three kinds of wine, in Ohio, that are extensively made for sale. One is the pure juice of the dry Catawba, fully fermented; another is made from the Isabella grape, to which is added $1 \frac{1}{2} \mathrm{lbs}$. of loaf sugar to the gallon, then it undergoes fermentation, and keeps sweet for a number of years. The third is the sparkling Catawba (champaigne) made from the
grape of that name, after it has undergone full grape of that name, after it has undergone full
fermentation, and has a certain quantity of rock candy added to give it sweetness and effervescence. In Madeira, a sweet wine is made by adding one-third of brandy to twothirds of grape juices, as it comes from the press; it is a pleasant wine, but is not healthy on account of not being fermented. Mr. Longworth says, " we intend, in a few years, to render portions of the Ohio River as celebrated for its wines as the Rhine." After all, it putty is to the glaziers, and those who talk about the pure juice of the grape, and unfermented wines, are very ignorant of the subject.
Louis Napoleon has ordered five-franc pieces to be struck off with his likeness: "Louis Napoleon Bonaparte" are the words which encircle his moustached profile.

