## צicentific Antrxican. $^{\text {. }}$



Reported Officially for the Scientific American LIST OF PATENT CLAIMS Issued Prom the United Oaten Patent Office SUbMarine Augers-By Norman Blake, of Ira,
N. Y. I claim forming a pod auger with a hinge joint, in combination with connecting wires, substan-
tially in the manner and for the purpose set forth. Matrresses-By T. G. Clinton, of Cincinnati, 0. : I clair thesse use of the hair haint hides of
ed after the manner of or steeped with ed after the manner of or steeped with the hides of
cattle in the lime vats of a tan yard. or other suita-
ble place, as descibed, with or without other ani-
mal or veretable matter, treated or not treated conmal or vegetable matter, treated or not treated con-
jointly therewith, or separately, in the same way;
and the use of other animal and the use of other animal or vegetable matter, un-
der ilike reatment and circumstances, as described,
whether used conglomerately, conjointly, or sepawhether used conglomeratelty, conjointly, or sepa-
wately, or their equivalents, when such animal or ve-
rate getable matter is of the kinds suse for upholstering
or sleeping purposes, in the articles of mattresses, ot-
tomans, cushions, sleeping sof as, kacking bottoms, or tomans, cushions, sleeping sof as, sacking bottoms, or
analogous articles, whereby a new resultis attained, analogous articles, whereby a new resuit is attained,
viz., anarticle obnoxious to bed bugs, without the
necessity of any temporary application of poisonous necessity of any temporary application of poisonous
mixtures thereto, thus furnishing the world with a
mirmless ant mixtures thereto, thus furnishing the world with a
hanrmess antidote to a great nuikance, and abolish-
ing the necessity for a great peril to human life in ing the necessity for
the domestic circle.
WINNOWERS-By T. J. Doyle, of Winchester Va.: discharge outlets, or passages, the invention, use,
and application of the sliding diaphragm, with double and application of the sliding diaphragm, with double
sloping bottom. This diaphragm bottom, as shown
and used, has a double slope, or is a double inclined sloping bottom. This diaphragm bottom, as shown
and used, has a double slope, or is a double inclined
plane, outward, inclining from each side of its elevaplane, outward, incliningf
ted longitudinal centre.
Secondly, I claim tbe
seconny, ch claim the use, application, and ar-
rangement of adjustable or sliding cheat or smut
board in combination with a screen. with side aperboard in combination with a screen. with
tures or outlets, for the purpose specified.
SASH STOPPER AND FASTENER-By C. C. Felton,
of Dedham, Mass. I Ido not claim the combination
of a rocking orvibrating friction plate, a lever spring of Ded ham, Mass.:
of a rocking orvibrating not fiction plate, a leverer spationg
and notched plate, as they are arranged in the drawof a notched plate, as they are arranged in the draw-
and no
ings of the patent granted to Br S. Hadamay; but as
I dispense entirely with a lever separate from the ings of the patent granted to B. S. Hadaway; but as
I dispense entirely with a lever separate from the
rocking friction plate, and make the said plate to
ocerate itself. rocking frictio
operat itselt.
I claim my in
I claim my improvement of combining the rocking
pate ad lever in one single piece, and extending it
below the part which rocks on the part of the notch plate and lever in one single piece, and extending it
below the part which rocks on the part of the notch
of the catch plate, all essentially in manner as deof the catch paate, ant exsentialy simplify the construction
scribed, whereby
of the window catch, and thereby render it nut only
cheaper in construction, but less liable to get out of cheaper
order.
Protecting Wheels and Axles of Cars br
Incasing Them-By a L. Finch, of New Britain, INCASING THEM-By A L. Finch, of New Britain,
Ct.: I claim incasing the axles and wheels of rail
cars within a metallic casing, substantially as speCt.: I
cars wit
cifed.
ISEY
 F. Furgang, of Albany, N. Y.: I claim the finger
keysoo organs, pianofortes, or any other musical in-
strument played in a simiar manner,
ing a part of every key, in suct srig a part of every key, in such manner that when
in position on the key board, such part of every key
shall be both level and in range with the similar shall be both level and in range with the similar
parts of the other keys, so that the running of a finger
over the keys of the whole chromatic scale on the over the keys of the whole chromatic scale on the
ker-board, may be capable of producing similar ef-
fects to those that can now be produced by a similar fects to those that can now be produced by a similar
running of a ngger over the lower range of keys of
pianofortes as now coustructed, substantially in the manner and form as set forth.
CAPPING SCREWs-By Chas. T. Grilley, of New
Haven, Ct : I do not claim the adaptation, simply,
of a cap of sheet metal to the particular configuraHaven, Ct : I do not claim the adaptation, simply,
of a cap of sheet metal to the particular configura-
tion of any regular or irregular form, by compression, or io whatever other manner the same may be
produced: but claim the attachment of a brass, propuce, or other suitable metallicic cap of to, and and its
copper or
combination with an iron wood screw, substantialy
in the manner and by the process described (which com
in the manner and by the process described (which
I conceive to be the only pratcticable metho in in
which the same can be usefully effected), whereby which the same can be usefuly effected), whereby
and by means of the uncessive operations of punchand by means of the successive operations of punch-
ing or stamping, the nick is first cut through the
shell, and then after being adjusted the groove or
slot, in the head of the screw, the sides thereof slot in the head of the screw, the sides thereof
are driven. down into, and made to press closely
against the sides of the slot, leaving the botton of
the clie groove or slot uncovered, so that the cap, when
closed round the head of the scre $\boldsymbol{m}$, will preserve it
hold, withoutliability to hold, withoutliability to be turned or displaced by
the screw driver which works upon the iron surface
at the bottom of the slot, and against the covered at the bottom of the slot, and against the covered
sides thereof, thereby furnishing vo the public, at a sides thereof, thereby furnishing to the public, at a
comparatively small cost, a wod screw havip a all
the beauty and faish of a brass, copper, or plated screw, in combination with the greatly supprior
strenth of an iron one. The invention is equally
applicabbe to steel screws, which may be capped in a
similar was similar way.
Machive for Prawing Spikes-By Daniel Hale,
of Hinsale, N. Y. I I claim the shackle, with the purpese of drawing it from the crosss spie of a rail-
poad track. in combination with a clevy and lever,
substrantial substantially as set forth.
 by, of Charleston, S. C. : I claim constructing the
wheel, or turbine, with exterior ribs, of any suitable
number, size, or shape, the said ribs operating in number, size, or shape, the said ribs
combination with a cover, or its equiva
manner and for the purpose set forth.
Reprigerators-ByAndrew Marsh, of Cincinna-
ti, Ohio 1 am aware that ice safes have been made with hollow shelves for water; ; but these are practi-
cally objectionable on account of their costliness,
cumbersomeness, difficulty of cleaning, and liabilicumbersomenesss, dificulty of cleaning, and liabili-
ty to bursting, eithes from the congelation of the ty to bursting, eithes from the congelation of the
water, in the event of the discharge becoming cho-
ked, or from the hydrostatic pressure. I claim the ked, or from the hydrostatic pressure. I claim the
application, as described, to an ice aseo r refrigera.
tor, of a crimed, oonvoluted, or corruated form to
the shelves, in order (in addition to compining the shelves. in order (in addition to combining
strenth with lightness of construction to capaci-
tate them for the collection, retention, and dischare tate them for the collection, retention, and discharge
of the water which results both from the ice and the
atmospheric moisture within the case.


 as described
the moulds
described
described.
ving the chim the " carrier " for clamping and remo-
trom tre the moulds, consisting of the



 structed as described, in combination with the sili-
ding valve,
the mpinal
thanner and and cifed.


 laneed byt he weight or or counte
parts being operated as set forth.




 underneath the main instrument.
$\mathrm{H}_{\text {Al }}$ Tveg - By R. B. Whipple of


 with its two mirros and two spirit eevilsi, arracanged
as shown, and it is this instrument or combination
 or, , Fhat is equivalent to the two levels,
surface level, I claim as my invention.
 Erews masignor to R. EDwards, D. A. Morrian Na- Na-
than Matthews, of pittsburgh, Pa: I claim form-
the ing the dovetails in circle plates, by dovetail pieces,
which are withdrawn Ielesth wise from the recessess
 body of he enould, the said levers being moved
arod pasing throgh the isid of the cylinder,
body of the mould, substantially as set forth.
 friction rollers, as such are not new, nor yet do
claim, independent of the means and manner shewn,


 ire pin, on winchis aifusted, and opera
frame being made, arrange, and
manner and for the purpose set forth.

[Five of the patents in the above list of claims
were obatined through the Agency of the Scientis American. The claim of Mr. Lebby, of Charlestor,
 Fields of South Carolinas.-ED.]
Bill for Reforming the Patent Laws. Bill for Reforming the Patent Laws.
The Bill of Senator Norris, which we n ticed two weeks ago, has had two readings, and according to present appearances it will become a law with all. its objectionable fea-
tures. We would again call the attention of the Senate to the 8th and 12the sections; the Bill, if it becomes a law with these sections in it, will, we are positive, lead to the most
unfortunate results. The sth section is, unfortunate results. The 8th section is, per
haps, one of the greatest oversights introdu ced into a bill.
We have now before us a most able article, published in the Philadelphia Argus, of the 21 st inst, from the pen of Wm. W. Hubbell, attorney, and one who has a protound knowedge of patent principles and laws, and he takes the same view of the question that we do, and he shows conclusively that section 8 , if carried out, will contravene our commercial laws, and may, in many cases, do great injustice to every class of our citizens. His views
of the said section shows us, also, the benefit of a multitude of counsellors, for he takes on view of the question which we overlooked. He asserts that the section is unconstitutional. It is, and we particularly direct the attention of Senator Norris to this point. A ection of
the Constitution says," Congress the Constitution says, "Congress shall have
power to secure to inventors for limited times the exclusive right to their discoveries," now, as the new section in the Bill grants to inventors the exclusive right in that which they have It would theref, it must be unconstitutionto strike out this section, rather than it should become a law to be declared unconstitutional if carried to the United States Sup.
to the humiliation ot our Senate.

Unless there had been a great deal of lobbying at Washington, such a clause would never have been introduced; we appeal to Se nators themselves, it this be not true. It is great pity that outside legislation, should hav led to the introduction of this principle in any
Bill rel Bill relating to a reform of our Patent Laws

## Petition for Extension of a Patent.

On the petition of Ezra LHommedieu, Chester, Conn., praying for the extension of a patent granted to him, for an improvement in machinery for manufacturing double twist screw augers, for seven years from the expiration of said patent, which takes place on th twenty-fourth day of July, eigh
and fifty-two, (24th July, 1852.)
nd fifty-two, (24th July, 1852.)
It is ordered that the said pet
It is ordered that the said petition be heard at the Patent Office on Monday the 5th o July, 1852 at 12 o'clock m.; and all persons are notified to appear and show cause, if any
they have, why said petition ought not to be granted.
Persons opposing the extensions 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 accordance with the rules of the office, which will be furnished on application.

Thos. Ewbank, Com. of Patents.
Washington, April 19th, 1852.

## Recent Foreign Inventions

Delineating Objects.-James Palmer, of Paddington, Eng., has patented the following method of delineating objects:-
The purpose of this invention is to furnish the means of producing drawings of all descriptions of objects in a much simpler and more perfect manner than is effected by the camera lucida, camera obscura, graphic telescope, and other instruments hitherto proposed or that purpose.
A plate ot glass is mounted in a frame or easel, which is furnished with suitable adjustments, for supporting the glass in a vertical position at any convenient height. On one side of the plate of glass, and at a distance of several inches from it, is fixed the frame o pair of spectacles, which is also capable ores
adjustment in position. One of the apertures ad justment in position. One of the apertures
of the spectacle frame is closed by a plate or shutter. The operator applies his face to the spectacle frame, and looks with one eye through the glass at the object which he wishes to delineate, and he then traces over the outline of the objects on the glass, with a pencil formed of a mixture of wax, soap, shellac, and lamp-black, which is capable of marking very distinctly on the smooth surface of the glass. In this way, an exact drawing with great facility. The spectacle frame preerves the position of the eye without interfering with freedom of vision. The instrument is very convenient, and its use is readily acquired, which can scarcely be affirmed of any of the instruments hitherto proposed for the purpose, as is shown by the very slight use which is made of such instruments.
The drawing on the glass is transferred to paper by tracing it, or
The same apparatus is used in a simil manner for drawing with an etching needle on a sheet of gelatine supported by the glass, or on a sheet of glass coated with gelatine. The drawingsthus made may be printed from the gelatine as from a copper plate. To enable the gelatine to be used for printing on moistened paper without adhering to it, it is rendered insoluble by immersing it in a solution of alum, borax, and acetate of lead. Geatine thus prepared does not adhere to the paper, and may be immersed in cold or warm water withoutinjury. The prints from the gelatine may be transferred to the stone or zinc, and printed in the ordinary manner of
lithographic printing. The invention is applicable to making drawings and engravings of buildings, machinery, landscapes, flowers, or any other stationary objects. For taking portraits, a rest is provided to keep the head of the person ir. a stationary position.
These drawings or delineations are necess rily smaller than the real objects, and their size may be varied by varying the relative
distances of the glass, and the object from the eye of the spectator. When it is required to increase the size of the drawings, a drawing on glass or gelatine is placed in an instrument somewhat similar to a magic lantern, by which a magnified image is thrown on a disc of glass ground on both sides. A sheet of gelatine is fixed on the back of the glass disc, and the magnified image traced upon it with the etching needle, or with the pencils above mentioned.-[London Mechanics' Maazine.
Preserving Animal Substances and Cuing Certain Diseases.-Armand Lecomte De Fontainemoreau, of France, has recently taken out a patent in England for the employment of metallic salts, but principally of sulphate of zinc in aqueous solution, for the preervation of corpses, and anatomical parts, and nimal substances generally, and to the cure of wounds and external diseases.
For the preparation of the sulphate of zinc, any salt of that metal may be employed; but the patentee prefers to employ metallic zinc in a granulated state. This he dissolves in uch a proportion of dilute sulphuric acid as to produce a solution of a strength of about $30^{\circ}$ to $40^{\circ}$ Baume. After allowing the solution to stand for a time sufficient to cause the deposition of the foreign matters held in suspension, he decants the clear, and employs it in the preservation of corpses by injecting through an artery. If the subject is to be exposed to the air, or kept in a naked state, the patentee recommends that a third part by veight of spirits of turpentine should be mixd with the solution; he employs also other essences when odors of any particular kind are equired, and colors the fluid red.
When animal substances are to be preserved by immersion, the solution is made in the same way as above mentioned, only that it is
employed at a strength of $20^{\circ}$ to $25^{\circ}$ Baume. If the solution is to be employed for purifying rooms from the taint of decomposing organic natters,
Baume.
Baume.
For th
For the cure of wounds, the solution is prepared in a highly concentrated state, and reduced to $3^{\circ}$ to $4^{\circ}$ Baume, by the mixture herewith of decoctions of linseed, marsh-mallow, and other emolient herbs. In this state it is used by saturating lint, and applying it to the wound. The solution may also be re-
duced to $2^{\circ}$ or $3^{\circ}$ Baume, and used as a wash for the hands.

## Hindoo Letters.

In external appearance and construction of expressions, a Hindoo letter is worthy of noice. It is written on a palm leaf, with an ron stile, four to six inches long, sharp pointed at the end. In writing, neither chair nor table is needed, the leat being supported on the middle finger of the left hand, and kept steady with the thumb and forefinger. The right hand does not, as with us, move along the surface, but after finishing a few words, astletter and pushes the le from right to eft so that he may finish his line. This becomes so easy by long practice, that one often sees a Hindoo writing as he walks the street. As this species of penmanship is but a kind o faint engraving, the strokes of which are indistinct, they make the character legible by besmearing the leaf with an ink-like fluid. A letter is generally finished on a single leaf, which is then enveloped in a second, whereon is written the address. In communicating singe the point of the leafupon which the afflicting news is written. When a superior writes to an inferior, he puts his own name before that of a person to whom he writes, and the reverse when he writes to a superior.

## A nother Dreadful Explosion.

On the 9th inst., the steamboat Saluda exploded her boilers at Lexington, Mo., and it is supposed that a bout 100 persons were killed; they were Mormon passengers bound for Salt Lake. The Mormons were from England and Wales. The negligence of the engineer, it is said, was the cause of the disaster. When shall we have an end of these murderous in debate, old about who shall have the spoils next year.

