## Sixntific American.



Reported Officially for the Scientific American
LIST OF PATENT CLAIMS
 MACinery for Bending Pall BALES, etc.-
By Robt. Bunker, of Rochester, N. Y.: I claim the
combination of the saddles, brake, bar, and movable By Robt. Bunker, of Rochester, $N$,
combination of the saddele, brake,
block, all operating as described.
SERD Planters-By $L$. W. Colver, of Louisville,
$\mathrm{Ky}: \mathrm{I}$ I claim making the cells in the tops of the grooves, so that they shall carry single grains, and
combining therewith a cleaner, which extends into the groove behind the seed, as each cell in turn ar-
rives at or overthe seeding tube, for the purpose of
carrying around and depositing with certainty the rives at or over the seeding tube, for the purpose of
carrying around and depositing, with certainty the
seeds or graing, singly, substantiailly as described. SAW Gumarres-By R. S. Cramer \& C. C. Blossom,
of Somerville, Ohio
I claim the nut, baving gudof Somerville, Ohio I Iclaim the nut, baving gud-
geong occupping notches in one of the jaws of a saw
gumming apparatus, in which the cutting portion is gumming apparatus, in which the cutting portion is
situated between the power and the fulcra for the
objects explained.
Drilling Machines-By Chas. W. Coe, of Ashta
bula, Ohio: I claim, first, the peculiar manner of giving the esiow automatic feed-motion to the spindle,
and the fast receding motion, by means of the sli and the fast receding mo sion, by means of the sii-
ding pinion, collar. and screw, which is attached to
the spindle, combined with the two sets of cogs, or their equivalents, upon the face of the same disco, or
several parts above-named being constructed, arranseveral parts above nated being constructed arra
ged, and aperating in the manuer and for the pu
pose desuribed. pose dessribed.
Second, the
Second, the peculiar method of constructing and
arranging the clutch, by which the inclination of
the clutech may be changed, as described, and the the clutch may be changed, as described, and the po
sition of the clutch also moved or changed bodily in sition of the clutch also
a horizoutal direction.
$\mathrm{H} \mathrm{\Delta Ts}-\mathrm{By}$ Francis Degen, of New York City : I
am a ware that metallic rings or bands have been used in helmets and similar articles, for the purpose of a
support, but $I$ do not know of any hat in which support, but I do not know of any hat in which a
strip of foil has been inserted between the leather
or sweat and the hat there or sweat and the hat ; therefiore, I claim the metal-
lic strip or strips, inserted between the leather, or
sweat. and the hat, and attatached to either or both
the hat or sweat, as described.
 necting rods, cutter stocks, cutters, and slides, in
combination with the stationary tonguers and proonerg, for the purpose of tonguing and grooving
boards, 8 ., as set forth,
Hor AIR Furnacrs-By Stephen Gates, of Al-
bion, N. Y: I Claim the combination of the defect-
ing plates, with the system of upright fues directly ing plates, with the system of upright flues directl|
orer the fire chamber, when such fues are arranged over the fire chamber, when such flues are arranged
in the manner set forth, so that each flue of itself
shall act as a defector and insure a complete circushall act as a deflector and insure a completecircu--
lation through the whole system, substantiall $y$ as
described.
 Gaylord, of Newark, N. J.: I claim the employment
for the purpose of bending and forming carpet bag
frames, or for bending two or more flat metal bars
 moving independontly of the other, in the direction
of the width of the bars, and haviug recesses and
self adjusting movable pieces, as described, combined in any way, substantially as set forth, with a table
and bending plate.



I do not claim either of these singly, but when
combined, for the purposes and in the manner sub-
stantially as described. stantially as described.
GALvanic Batriby-By Louis Drescher, of New
York City: I I claim the in in proved arrangement of York City : I claim the inproved arrangement of
the old voltaic pile. the same consiting in so sepa-
rating each galvanic pair from that next it, in the series, and connecting them with thort wires, and
forming the plates with suitable perforationt, as that the strips of leather or flannel, or their equi aleant,
thent,
may be at once saturated with the exciting liquid,
by immersing the battery therein.
 constructed substantially in the manner as descri,
bed, by means of which the cope is raised in the
jaws of the hinge, as set forth
Crairs-By J. T. Hammitt, of Philadelphia, Pa.:
I claim operating the leg rest of the chair from
the motion of the seat and back, by means of the leI claim operating the leg rest
the motion of the seat and back, b
ver and rod, or their equivalent.
 of N. Y City: I claim the feeding belts, constructed
substantially as described, with jointed chairs, ha-
ving cloth stretched between ving cloth stretched between them, as set forth, by
winch their motion is exactly determined aud equal.
Also the combination of the revolving endless Also the combination of the revolving endless
planking board or table, with the feeding belts, both
moving with the same velocity, for the purpose as moving wit
described.
Loor-By Richard Ketcham, of Seneca Castle, N.
Y. $:$ I ciain the circular tumbler or its equivalent, in combination with the sloted collar, which en-
compasses the spindle of the knob, said collar and compasses the spindle of the knob, said collar and
tumbler or its equivalent, being constructed and
operating as described.
PadLocs-By Rhodolphus Kinsley, of Springfield,
Mass
I Claim giving a forward motion to the hasp, and acting upoa the tumblers by means of the same
Sey, Fhen the parts are arranged so that the mey
acts directly upon a portion of the hasp, substantial acts directly upon a portion of the hasp, substantial-
Iy as decribed.
Secondly, the double acting spring described, only when used io connection with such a forme and ar-
rangement of hanp as will case it to actuate the
tuanolers, and not only throw the hasp out, but hold rangement of hasp as will cause it to actuate the
tuanblers, and not only throwthe haspout, but hold
it thrown out and fully open in the manner descriMODE Mode or Frostiva Glass-By John Levg \& C.
Jones, of New York City: We claim, frist, frosting
and figuring glass, by fixing the plates to be treated and figuringglass, by fixing the plates to be treated
in a trough or vessel contaiaing sand, pebbles, and
$\left\lvert\, \begin{aligned} & \text { Water, and subjected to a short, quick, vibratory mo- } \\ & \text { tion, in a longitudinal direction , by any suitable me- } \\ & \text { ehanical movement }\end{aligned}\right.$ thon, in a longitudinaldirection, by any suita $\begin{aligned} & \text { chanical movement, thus causing the glass to pass } \\ & \text { through the mass of gritty material, before any con }\end{aligned}$ siderable momentum is imparted to that mass.
Second, forming ornaments upon the glass by the
and Second, forming ornaments upon the glass by the
application of patteros or designs, in connection
with the process of frosting by, the action of the sand and pebbles, as set forth
Wooden TYPE-By John McCreary, of Chester
ville Ohio: I claim the arrangement of the propel Jing lever, as that, by its return movement, in com-
bination with the feeding lever, spring. dog, and feeding tube, it will move forward as required, $t$,
blankwood toreceive the impression, as set forth. PILL Masing MACHiNES-By E. H. Pond, of Rut-
land, Vt. I I claim, frst, moulding or forming pill
by means of two cylinders, by means of two cylinders, having each a number of
recesses in its periphery the recesssesin one cylinder
matehing with those in the other, and each 'match ing pair forming a mould of the required form of the tions, and the pi 1 mass being conducted between
them, as described. Second, the bands of india rubber, or any sufficiently elastic material passing round or partly round the
mould cylinders for the purpose of expelling the
pills from the recesses, after the moulds are open, pills from the recesses, aft
substantially as set forth.
Singal Machings-By Wm. Stoddard, of Low-
ell, Mass.: I claim the combination of the riftin bnife (connected with the main driver by means of
elastic arms) with the inclined planes placed upo the rails, as described. for the purpose of enabling sing the forward movement of the said driver, an
then be elevated to the proper height to split off a
shingle, during its return morement, as set forth. hingle, during its return movement, às set forth.
Also the arrangement of a secondary driver placed
bove and acting independently of the main drive in such a a mannert that tit will drive the rived shivgle
from under the block and deposit it upon the bed, in
such position that it will be carried porwards to from under the block and deposit it upon the bed, in
such position that it will be carried forwards to be
dressed during the forward movement of the said dressed during the forward move
dresser, substantially as set forth.
Screw Driver-By J. W. Switzer, of Basil, Ohio:
claim the screw driver, spring catches, attached to Claim the screw driver, spring catches, attached to
the lat portions of the screo driver, and permitting longitudinal as well as lateral adjustment, and the
barrel in which the whole is placed, in combination
with the barre in which the whole is placed, in combination
with the brace and stock or their equivalents, the
whote being constructed arranged, and operating in
the manne and the manner and for the purpose substantially as set
forth [See engraving of this inven
 ing the axle of the driving wheell, so sar beyond the
carriage as may be recessary to form a pivot for the
reel to turn upon and allow of its rotation, by a reel to turn upon and allow of its rotation, by a
baand as described, independent of the rotation of
the axle substentialls as set forth. Slags of furnaces-by Wm. H Smith, of Phi SLAGS of FURNACRS-By Wm. H Smith, of Phi-
ladelphia. Pa. I I claim the procesoon utilizing the
slags of iron and other lise furnaces, retining and working the same, substantially as set forth, where
by I bring into successful operation, for useful pur yoses, a class of hitherto useless products.
 the New England Screw Company
the feeder, composed of a sectiona dross and arranges itt toelf beefore a a tracherring rod rod,
which pushes it into the griping jaws, substantialy Which pusher.
as described.
Segond, the
Seçond, the combination of the traversing rod, ac
tuated substan ially as described, with an adjust tuated substan ially as described, with an adjusta
ble stop. for the purpose of setting the blank be
tween the jaws in the exact position required, ween the jaws in the exact position required, as ss
Third, the method of operating the jaws and hold ng them closed with the requisite force to hold th the mandrel, by means of toggle or knuckle joint le-
vers, which are thrown slighuy past centres, when Vers, which are thrown slighaty past centres, when
the jaws are closed to old them closed, wen they
are used in connection with elastic and long shank. ed nippers, substantially as de cribed, wherevy all
end strain of the mandrel againt its bearings is pe.
ven vented; $d$
blank.
Lastly,
Lastly, the spring discharging punch, constructed
and arranged in such a manner that the same shal别 the priping jaws, and shall throw the blank out
the jaws, the instant they relax their hold of it suf
ficiently; such pushing out depending upon such re laxation and the force of the spring, and boing en
tirely independent of the motios of any other pa
tine machine. of the machine.

Coon STove-By Ezra Ripley \& N. S. Vedder, of
Troy, N. Y. fassignors to Samuel McClure, of Ro-Nore-The applications for one-third of the list of patentsgiven above were prepared at the "Scienmic American Patent Agency." Besides the great
mount of home business, we are securing a grea number of patents in foreign countries.
Reform of the Patent Laws...-Patent Office and Patent Funds.
Mr. Editor.-I was glad to see your time $y$ recommendation of a reform of the patent laws, whereby the inventor and applicant for a patent would be put on an equal and just level with the Patent Office in the defence of his inalienable rights. I refer to cases of apmuch less republican policy-to make a rejected applicant for a patent pay the expenses of his appeal even when right and the Patent Offlce wrong. It would be no more than sim ple justice to alter our patent laws so as to
make the Patent Office pay the stated expense of an appeal if its decision has been wrong, not as the law now is, by which the inventor has to pay the expense right or wrong -successful or unsuccessful.
President Filmore, in his message of Monday the 6th inst., recommends by the suggest provision be made for the publication and
distribution periodically of an analytical digest of all the patents which have been or may bereafter be granted tor useful inventions and discoveries with such descriptions and ilustrations as may be necessary to present an intelligent view of their nature and operation. The cost of such a publication," says the message, "could easily be defrayed out of the patentfund, and I am persuaded that it could be applied to no object more acceptable to inventors and beneficial to the public at large."
This is very well in words; the French also defends patents, so that a poor patentee can have an able lawyer and an officer to pur sue infringers. The great expense of lawuits is the crying evil that poor patentees labor under. Why does not the President or the Secretary of the Interior recommend a re form in the Judiciary connected with patents? Is it because it would take away some of the lawyer's fees? The President is surely above this although a lawyer, by proTher
There is a surplus fund belonging to the Patent Office, and some people are continually on the look-out for such appropriations as may be beneficial to themselves. I trust that no one so interested has suggested from personal motives, such a plan as that proposed to the Secretary of the Interior; yet when Office Report for 1851 is not yet printed, the recommendation made by the President is anything but well timed in accordance with the present and past practice of government publishing. I have been informed that the late Commissioner of Patents was an urgent advocate of the government publishing a digest of the patents, but he was favorable to a sum being granted by authority to the "Franklin Journal" tor so doing. It is well known that attempts have been made (and glad I am they have all as yet been unsuccessful,) to get a grant from the patent fund, by some publishers of magazines. I hope that no movement of this kind is now going on "under the rose." Junius Redivivus.

Lecturing Noblemen.
A lecturing mania has invaded the ranks of the nobility of England. The Earl of Carisle is announced to lecture on Gray, at Sheffield; the Duike of Newcastle is to lecture at Worksop; Sir Alexander Cockburn at Southampton, and Lord John Russell at Manchester. Nobility is looking up.-[Ex.
[This is no new thing, Lord Mahon delivered a most beautiful lecture four years ago to
the mechanics of Leeds, and the Earl of Carisle (formerly Lord Morpeth), has delivere some lectures every year to the mechanics in different parts of England. The conduct of these men confer dignity upon their position in society. No title but conduct can make a nobleman. The nobility of England at the present day present an amiable and"commendable contrast to those of the last century.Many of them are laboring to lift workingmen to their own positions in all that can make a man noble, viz., morality, intelligence and courtesy.
We have often been surprised at the want of taste or desire for good information, or want by our mechanics in the different large cities our mechanics in the diferent large cities be called ignorant, or stigmatized not like to be called ignorant, or stigmatized for exhibiting a want of intelligence, nor would it be just to do so; for they are both spirited and intelligent, but we must blame them for not directing their attention to objects which have a most elevating tendency, and which confer honor and dignity upon men. We allude to useful public lectures by eminent men. We honor the young merchants of the City of New York, because they have the sagacity to perceive and the spirit to carry out the object of obtaining eminent lecturers every winter Did they not engage the philosophic Nichol to deliver his splendid Astronomical Course, and this winter secure Thackeray, whose fame as author is world-wide? The gentlemen of the Mercantile Association, with a sagacity which does them credit, understand how to make their Institution popular. The city of ew York contains a population of 500,000 pulation of about 365,000 ; both of them have

Mechanics' Institutes; the latter is the oldest in the world, but at the same time the mechanics there do not possess the same means to maintain a good Institute as do those of our "Scottish Guardin" will show how that In Scottish Guardian"
"The winter session, 1852-53 of this excellent institution is about to commence; classes on the following interesting subjects are already announced-viz., Chemistry, by Dr
Frederick Penny; Natural Philosophy, by Frederick Penny; Natural Philosophy, by
Professor J. Scott; Popular Anatomy and Physiology, by Dr. Alexander Lindsay; Arith metic and Mathematics, by Professor J. Scott and Mechanical and Architectural Drawing, by Mr. Robert Harvey."
Can our mechanics not learn a lesson about rendering institutions devoted to their benefit popular and honored among the people?
Action Against the New Steamboat Law. It is well known to our readers that a new law for steamboats was passed during the last session of Congress, which law was to take effecton the 1 stof next month (January 1853.) We understand by the St. Louis Intelligencer that a petition is on foot in that city for the purpose of getting an extension of the time appointed for this law to go into operation.The reason offered is, that little or no preparation has been made to meet the provisions of the law, in procuring the required life boats, extra safety valves, \&c. One or two boats have made themselves ready to meet the legal demands, but the majority, it is stated, have not; hence quite a number of captains, pilots, and engineers have signed the peti tion. The real intention of the step is to procure the repeal of the statute.
Congress will no doubt treat the petition as it deserves; if it does not, and consents to act upon and give it countenance, then it wil stain its character with a most reprehensable act. Sinee the law was enacted every steam boat company in our land has had sufficient time to prepare for and meet all its require ments.

## The Cheap Postage Law

By the Postmaster General's Report, we earn that the gross receipts of the Post Office Department for the last Fiscal year have been $\$ 6,925,971,28$, from which $\$ 101,388,59$ have to be subtracted as being due to Britain, which makes the real sum $\$ 6,824,582,69$. The expenditures have been $\$ 8,745,771,20$, leaving a deficit of $\$ 1,921,194,51$, to be made up by special appropriation, which can easily be done, as we have a surplus revenue from other sources of $\$ 20,000,000$. The receipts from all postages have been less by $\$ 1,431,696,54$, than the past year under a higher postage. The reduction is owing to the decreased rates of
postage under the new law. This diminution is greater than was anticipated by the Post Office Department, and greater than the friends of cheap postage expected, for it was hoped that there would be such an increase of cor-
respondence as would make up for the reduced rates of postage. This was the case in respect to the penny postage law of Great Britain, and it was anticipated that the same results would be produced by our cheap postage law. No increase of postage, to make up the deficit is recommended; the report says, "all experience warrants the expectation that as the community becomes accustomed to cheap postage, written correspondence will increase."
So think we; and as stamped envelopes will soon be ready for as stamped envelopes all will take place by private correspondencethen letters with these envelopes can be carmages for infraction of law. We hope thatno person will ever be found evading the law for the future.

Packing Apples.
The following method is practiced in some parts of Maine for packing apples for shipment to California:-Each apple is wrapped in paper, and then placed in the barrel in layrs. Between every two layers of apples is a layer of powdered charcoal. The apples are thus prevented from coming in contact with ach other, and through the anti-putrescent ualities of the charcoal, the rot, even should it attack a part of the fruit, will be prevented

