

Reported Officially for the Scientific American LIST OF PATENT CLAIMS Inoued from the United States Patent Ofly
for tie whex mina jowe 8, 1852.




 and plate glass, in connection with the mode of heat-
ing them with charcoal or other combustible placed
ing ing them with charcoal or other combustible placed
inside
Second. the
 glansi the use of trucks for carrying of the sheets
 gates, fieus, and $f$
polishing oven.
City: Wo claid the treatmen Cormack, of New York
 purpose set forth.
 and arranged sibsta
purpose desecribed.
 pinion and its shaft, in combination with the scroll
cams, their chain, tubular shaft, and the ellutch con-
 detent or opening, the while being applied to the
scroll shaft and spur gear, and made to operate sub scroil shart and spur gear, and mate to operate sub-
stantill in the mannen and orthe oupose stated.
I also claim the ratchet wheel, the arm, and re.

 pinion), and the spur gear, having a positive motion
as described, the whole being for the purpose as spe-

ciifed. | $\substack{\text { cifited. } \\ \text { And } \\ \hline}$ |
| :---: |







 to or with the ring rail and the frame. that the said
guide or guide bar shall be movable, or made to move
 circuansetances may ren
purpose as specifed.
And in omphination with the scroll, its chain, and
con nections with the $\begin{aligned} & \text { ing rail, } \\ & \text { I claim a compensa- }\end{aligned}$



 the ehain, and weight as applied ologether and
the frame and onerating substantially as specified.
 the driving belt, shiftiog lever, or co
same being for the purpose set forth.



## explained.

 each upward movement, and thisis so os to to wind
eita




means lime the method of directing the discharge of
smoke and sparks or either from the chimner of
In smoke adid spark, orbine theremith defiectors, sub-
locomotive, by combining stantially as deocribibed the epertur etherorof, buing
governed by a valve or shutter, substantially as spe-
cifed govern
cified.






 names or initials thereon, may be m m
contour or device and eage pattern.


 odges by strokes of a peculiar tool paas for the
purpopes.
Second, forming half eyes across the bar at spaces equicoistat frimo itit centre, by strokes of a narrow
and round edreed hammer and round.e.dged hammer.
Third, finginghing the haif eyes and maling them


 et forth.

##  



 Thereof are mounted the sustaining Wheials, while
acknowledge the similarity of thi lifting action
 am not aware that Mr Rogers is entitled to claim all
means for effectiog the same result, and $I$ conceive that my improvements dififer in material point from
his, and $w$ hich form the object of $m y$ claims, as fol-

lom | Mis. |
| :---: |
| Ios |
| Mount |

 the manner and for the purposes specifed.

 plate, , ate, and their attachments.
Ialso claim the mode of putting th




 tion by the revolving clutch which meets, when a
the proper hoight, with the crank $\begin{aligned} & \text { Whieh }\end{aligned}$ it fastens.

 Sked PILAvirps-By B. D. Sanders, of Holliday's Cove, Va. In claim the construction of the serpen-
tine driving cam, the cam being formed of two part tine driving camm, the cam being formed of two parts
and placed on the axle, one part of the cam being
Bxed ormy to the axle, and the on


 or projections Which act against
rotren and give reiprocing
od, substatatially as described.
(An engraving of the above invention will be pub-

 prose the rake
pose set forth.

 the original inventor of the application of steam to
heating, boiling, and mixing but I I claim the com

 mass, substantiap ap in the mand maner set forth.
[Mr. St. John's English claims

## wore extensive than the above.]

 and inclined tilting pappsasge, the whole being. arran-
zed as described, and operatiog in combination
 the tooth, having a aititing door arranged
of the same and a gaur plaed round the
the manner and for the purpose specifed.
GREASE Coors-By R. M. Wade, of Wadesiile,
Va: I claim the inclined discharge passage, of va:
 cylinder and itsappe.
purposese
fot forth.

Notr-We call espand oundry), of Boston, Mas information announced in the preamble to An Mr. Root' claim on Cultivators. The argument is forcible, the
language unmistakable, and is certainly very creditable to the accommodating spirit of the Examiner Mr. Rogers will please to consider his claim as not embracing "all means for effecting the same result."

## Valley of the Amazon.

About a twelve month since, Lieutenan Herndon, of the United States Navy, was de puted by the Department to make an explo ration of the great river Amazon, from its sources in the mountains of Peru to its junc-
tion with the Atlantic at Para, Brazil. This duty has since been performed, Lieut. H. having reached Para, and joined there the U. S brig Dolphin. He made the voyage down the Amazon in a bark canoe and almost mens were gathered during the exploration.

## For the Scientifo American The Reformatlon of the United States

Judiciary syatem
Virgiania and Pennsylvania have just emer ged from one of the relics of despotism, in the judicial branch of their governments; that is from the appointment of judges for life or during good behavior; and having adopted the Republicanor Democratic doct ae, of electing the judges by the people for a imited number of years, it behooves tha people to remove the same dangerous feature from
Judges tor life, like all
Judges tor life, like all other men similarly situated, such as monarchs, emperors, and in dividuals in whom power for life is entrusted, soon become usurpers and despots, in the consciousness that none but a very grievous overt act, amounting to misdemeanor, could result in a successful impeachmentand removal from office. The consequence is, that the province of the jury-box is trodden undar foot: important questions of fact are decided by a "single "court;" decided too often on vainly assumed hypothetical fancies, amounting to specula-tion-possessing no solid practical capacity either for usefulness or for reliance as a true basis; and when the decree of the one-man
goes forth, and injunctions issue, without security to indemnify the parties, in case they ultimately show them to have been wrongfully issued,-they spread a desolation through the business and property of the citizens of the States, worse than the pall of death, tor there is no hope of salvation or redress for the injury done by the one-man called the court and no opporturity to recover themselves in the case before a jury of their country, ere total ruin has been their lot.
Attempts have been made, under the Constitution, to prevent the Federal judge from assuming such omniscient and oppressive powers; but all seems to be of no avail against the natural tendency of man's nature, when intrusted with too much power, to become ex clusive or despotic, and oppress his fellow man, under the assumed mask of superior discernment or great learning in sciences or arts.
or other subject matter to which the question of fact at issue in the case belongs ; the truth being, that nine times in ten the power, and a real ignorance of the mutter, begets an assumption of knowledge; because the Chancellor or Judge, having no practical experience in the much he really knows nothing about, and hence, in the absence of time, intense study, opportunity, and capacity to learn, he assumes that he knows everything; for he cannot see
the extent of the field of knowledge both exthe extent of the field of knowledge both ex-
plored and unexplored, that is before him. This is all quite natural; but it is repugnant to the spirit of our government and oppressive to the people.
The Act of 1789, section 16, "that suits in equity shall not be sustained in either of the Courts of the United States, in any case where plain, adequate, and complete remedy may be
had at law," is left discretionary with the Judge, and therefore becomes a nullity on the statute book.
The Act of February 13, 1807, which de-clares-"nor shall an injunction be issued by district judge in any case where a party has Court for the writ," becomes also a nullity on the statute book, as it is left discretionary with the district judge to say what constitutes a reasonable time; and where parties complainant, have waited a whole year, when the district judge is known to be predisposed on general impressions and in general temperament in their favor, finally, in the absence of such temperament the district judge is moved for interlocutory injunctions, and they are granted, no matter how greatly in error or ignorance the judge may be,-they are granted without security, and the citizens of the States - and all their freehold and personal property, and contracts inseparably connected with the subject matter, if it be a machine or otherwise, are laid prostrate in the dust before this though they may be in the right, and no fate before them other than overwhelming ruin. Before this Republic was established, it was
man) could do no wrong. Now it is, that the Court (consisting of one man) can do no wrong. The principle of the one-man power is the same in both, disguise it as we may, Whether in the word Crown or in the word ourt. Our ancestors did not believe the for mer then ; we do not, and ought not to, believe he latter now.
Already the voice of New York, in a resoIution to Congress, has gone up protesting against and denouncing such oppression. The Key Stone State, Pennsylvania, ever true to a Democratic Government, has declared that her Judges shall be elected for a limited period by the people, and put upon her statute book the law of May 6, 1844, declaring "No injunctions shall be issued by any coutt or judge, until the party applying for the same hall have given bond, with sufficient sureties to be approved by said court or judge, conditional to indemnify the other party for all da mages that may be sustained by reason of such injunction." And it is quite time that similar features had been engrafted upon the Judiciary System of the United States.
The many wrongs heretoofere inflicted, by Federal Judges assuming too large a jurisdiction and knowledge over facts, hav ed the people to a full sense of the insecurity of their situation; for no man knows where such doctrines and decrees will fall next, and blast all his creditand prospects, withouta tria by Jury, and without security, or opportunity or redress-and have compelled many of the citizens to raise their voice, in the following State in the Union will join wis purely re publican, in accordance with the nature of our Government, and already impressed upon the statute book of Pennsylvania and several other States
To the Hon., the Senate and House of
Representatives of the United States
in Congress Assembled:-
The Petition of the undersigned, Citizens of the State of ——, respectfully represent to your Honorable Bodies, the necessity of a change in the Judiciary System of the United States, respecting the appointment of Judges, and the power they have assumed over both law and facts, in granting injunctions withou trial by Jury, and without adequate security to the party enjoined, all of which is contrary
to the spirit and true character of our government, is of despotic origin, contrary to the spirit of the government of this State, destructive of business security, and oppressive to the citizens,-
And pray Congress to propose an amendment to the Constitution, providing that the Judges of the United States Courts shall be elected by the people, for a limited number of years.
Also
so to pass a law prohibiting the issue of a writ of injunction, unless the complaisant shall first give security to indemnify the defendant for all loss and damage; and providing that the defendant may stay or raise the injunction on giving like security. And that all issues of fact both in equity and at law shall be tried by Jury.?

Repbulican Justice.
The Country for the Consumptive. A correspondent of the Philadelphia Ledger, medical man, writing from Rock Harbor Lake Superior, says it is the country for those laboring under consumption, who are not too far gone with the disease. The air is so pure and dry, that it imparts elasticity to the spirits, and infuses new vigor in the system. He has hadthe charge of a small community of 100 souls, not one, during the past winter, has had a cough. From November to April not a drop of rain had fallen, and although the temperature is much lower than in the Atlantic States, the people do not suffer so much from the cold as they do where the climate is more moist and the temperature higher.
The "N. H. Statesman" says it is understood that the daughter of the late Benjamin Thompson, (Count Rumford) who has been residing for several years in the Rolfe Mansion, now her property, on the intervale near
the lower end of Main street, in Concord, N . H., is proposing to re-cross the Atlantic.The Countess," as she is called, is more than 70 years of age; and has sever

