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[Reported Officalls for the Scientifo American]
LIST OFPATENTCLAIMS Igened from he United States Patent Offce.
FOR THE WEER ENDING JANUART 30, 1855 .
















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 and down through the wax holder and its elastic bottom,
whereby the saturatiug of the thread becomes improved as
speciife.
iliso claim the combination of an elastic botom or
 to prevent ita escape from the wax holder, essentially as de-
sccibed.


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 IA descripioio or this machine was published in No. 4 ,






















## Patent Case.

At the General Term of the Superior Court held in this city, a very important and interesting case of appeal relating to inventions was decided on the 27th ult. The parties were Sherwood and others, againsi Pierce and others, who had sued previously to compel the performance of an agreement to purchase of plaintiff and D. Fitzgerald, the improvement of the latter on iron safes, and pay them for the first two years ten per cent. on the sales, and after that twelve per years, the parties said it was not new, but a patent had been obtained, and the refusal to pay was still maintained. The question of fraud on the part of the plaintiffs had been laid before the jury on the trial at common law, who found there was no fraud as charged by the Judge, and the plaintiffs were entitled to the ten per cent. on the manufacture of the safes for two years. The Superior Court affirmed the judgment, the appeal being on the charge of the Judge.

## Evaporating Cane Juice

Messrs. Editors-From the description of Wethered's stame and steam apparatus, on page 45, this volume, Scientific American, I am led to believe that if any benefit can be for itsed from its use, there is a wide field ting application in Louisiana, for evaporaplartation during the season of sugar making, we evaporate about 30,000 gallons of water from the cane juice daily, and there are several other plantations where the same amount of work is done. In 1847 Isaac P. Morris \& Co., iron founders, Philadelphia, constructed for a planter in this State an through for heating steam by passing it before a cast-iron pipe under the boilers do not know what was the result of the experiment. Of course it is only by fair practical experiment, continued, say for one season, that the merits or demerits of Wethered's plan can be settled. I desire to call attention to this, simply from a desire to see branch of business in which I am interested introduced for the beneft of all concerned

Plantation near Thebodaux, La., Jan. 1855

## (For the Scientific American.)

 Pollara, in No. 18, supposes that and rection of the earth's axis is changing, megards this change as the cause of "the gence of of the new land, and the summer gence of the old." That the greater part of the present dry land was once the bot tom of the ocean, is undoubtedly true, but it is just as true that the cause of this emergence and submergence is not the lateral motion of the earth. The direction of the earth's axis does not change, this is an established fact, proved above the possibility of a doubt by all astronomical
## all timand countries.

One of Mr. P's. reasons for believing in a lateral motion of the earth, is the well known fact that fossil remains of plants and animals which grow only in tropical and temperate climates, are found near the Arctic regions, indicating a great change of climate. This latter change is, at the present day, general ly attributed to the internal heat of the earth itself, the surface of the earth having then not jet cooled down to the present temperature. Mr. H. P. says, the lines of the public surveys, no doubt run on the true or astronomical meridian, vary from the magnetic meridian one degree east for about ev ery twenty years since the surveys were made, and he therefore comes to the most singular conclusion, that the axis of the earth is moving east. If you go aboard a steamer in Liverpool, and find yourself afte about twelve days in New York, the conclu sion is, New York has moved east toward you, yourself having been stationary. The astronomical meridian never changes, the variations of the magnetic meridian are different at
as follows:
1580. $11^{\circ} 30^{\prime}$ East. 1814. $22^{\circ} 34^{\prime}$ West.
$\begin{array}{ll}1618 . & 8 \\ 1663 . & 0\end{array}$
$1700 . \quad 8 \quad 10$ West.
1780. $19 \begin{array}{lll}19 & 55 & \end{array}$
$\begin{array}{lll}\text { 1816. } & 22 & 25 \\ \text { 1825. } & 22 & 2\end{array}$

It may here be stated, that besides these, the secular variations, there are daily variations, which are for Paris as follows : during the night the needle iy nearly síd:ouary, at sunrise the needle commences moving west till about 5 P. M., when the needle move back east till 9,10 , or 11 P . M. These vari ations are greater iu summer than in winter, from April to September 13 to 15 minutes, from October till March 5 to 6 minutes, on some days 25 minutes, on others cnly 5 to 6 minutes. South of the magnetic equator, these variations are in opposite directions, the north pole moves east from morning till P. M.

Baltimore, Jan. 30th, 1855.
A. Z.
[Our mind neverhas been able to receive the internal heat theory of liue earth, as affording an explanation of evidences which have been furnished in abundance, of the cold arctic regions being once the abode of elephants, and other animals now belonging to the tropical regions. It has always appeared to us to be irrational ; probably the cause will yet be discovered.

## Life Boat Ships

Messrs. Editors-With reference to an article in the Scientific American two weeks ago, upon the "Safety of Ships," allow me to correct your rendering of my suggestions for the same, on page 131. It will there be seen that I proposed the adoption of one longitudinal keelson of plate iron, and two transverse bulkheads only of the same. These are all the partitions necessary to divide the hold into six compartments.
Since writing to you first upon this subject, I find that the mover of this improvement for constructing life boat Steamers-Mr. Grifiths-advocates its immediate adoption, in his Nautical Magazine. I am glad to find you, as well as our highest naval authorities, so well agreed upon the importance of embodying this principle in any new legislation by Congress upon this subject.

Practical Observer.

