Grientific Amexican
poetry hundreds of yeurs beforo it was invented. It is stated in Vail's history of Tele graphs, that the first electric telegraph mentioned was that of a Mr. Lomond, in France, in 1787 , who, with wires and an electric 'machine, communicated with a person in a neighboring chamber. But let us tura to a more ancient telegraph than this: "Strada, the Critic, in one of his', profusions, in the person of Lucretius, gives an account of a chimerical correspondence betwee.n two friends by the help of a certain loadstone, which had such a virtue in it that if it touched two several needles, when one of the needles so touched began to move, the other, though at ever so great a distance, moved at the same time and ine same manner.
He tells us that the two friends, being oach of them possessed of one of those needles, made a kind of dial plate, inso the the four, and twenty letters, in the same manner as the hours of the day are marked on the ordinary dial-plate. They then fixed one of the needles, on each of these plates, in such a manner that it could move round without im pediment, so as to touch any of the four and twenty letters. Upon their separating from each other into distant countries, they agreed to withdraw themselves punctually into their closets at a certain hour of the day, and to converse with one another by means of this new invention.
Accordingly, when some hundred miles asun der, each of them shut himself up in his close at the time appointed, and immediately cast his eye upon the dial-plate. If he had a mind to write anything to his friend, he directed his needle to every letter that formed the words which he had occasion for making a little pause at the end of every word or sentence, to avoid confusion.
The friend, in the meanwhile, saw his ow sympathetic needle moving itself to every let ter which that of his correspondent pointed at By this means they talked across whele conti nents, and con veyed their thoughts to one another in an instant, over cities or mountains, as or deserts."
The above extract is taken from Addison's 119th paper, in the Guardian, which was pub ished in July, 1713, and Strada died in 1649 exactly, two hundred years ago. He was the uthor of Poetical Profusions, and teacher of Eloquence in Rome. Hitherto we have bee talking about inventors being poets, but here is poetry becoming invention. Strada could not have described the signalling-magnetic te legraph more faithfully, if he had lived and xamined that of Wheatstone in our own day Was not this production of Strada the pro phetic poetic invention of the Magnetic Tele graph? From this we learn that "comin vents sometimes cast their shadows before, and as Strada's chimerical friends used no wires for their telegraph, may it not be possible that some inventors will yet discover the secret of dispensing with them altogether-this would be the greatest discovery of all.

## The Law of Patents.

The Charleston, S. C., Mercury, of the 13th inst., says that we misunderstood the meaning of the two articles which were published in the Mercury, and part of which we copied into our columns, in relation to the conduct of the Federal Court in the case of Motte vs. Bennett about the infringement of the Woodworth Pa tent. The mistake was not intentional, as the Mercury gentlemanly premises. We agree with the Mercury on the point, that it is not the practice of the English Court of Chancery to grant perpetual injunctions when validit of the Patent, or infringement is denied. The Mercury states that it only referred to perpetual not interlocutory or provisional injunctions, which it states were always customary to be granted by the Court, until the question was tried at law. The following is the spirit of the article in the Mercury :
"The question before the Court, and the only one discussed by the defendant's counsel and the only one reviewed by us, was as to perpetual injunction-a final decree. It is this Is it the course and practice of Courts o Equity' in England, in a patent case, where the defendant denies the validity of the patent
grant a perpetual injunction, and make a final decree, without a trial at law and the verdict
of a Jury? Judge Wayne asserts the affir-mative-we the negative. Judge Waynesays 'The English Chancery will show that for more than eighty years, injunctions, both provisional and interlocutory, and perpetual, have been granted in the first instance in cases of copyrights and patents: and that when they have been perpetual in the first instance, they have been made so without the intervention of jury to try the question of title or infringement.' We deny this altogether. The En ish Chancery shows nothing of the kind." A number of cases are cited from the ablest English authority to prove Judge Wayne wrong, and it recommends Congress to purchase a few copies of Hindmarsh on Patents for the uses of the Judges of the Supreme Court. Were it not that there is so much about patents in this number we would pubish the whole article. Next week, however, we will publish from a work by one of the best living English Patent Attorneys, the Practice of the English Courts, which will be found to coord exactly with the views of the Mercury

## Interesting Patent Cases.

machine for making lead pipe.
On the 12 th inst., in the U. S. DistrictCourt New York, before Judge Nelson, a very impor tant case was decided by a verdict in favor of the defendants. The case was an action for n infringement of a patent granted to $B$. Tatham, Jr., on Oct. 11, 1841, for improve. ments in the manufacture of lead pipe machinery. The defendants were Thomas 0 . Le Roy and David Smith, who were using a ma chine under a patent granted to Samuel G Cornell, Aug. 21, 1847. The plaintifis alledg ed that Cornell's improvements for which the patent was granted to him, consist of transpo sitions of the parts of their machines and wie not substantially different from those described in their patent. The defendants alledged that heir machine was not only substantially dif erent from that of the plaintiffs, but possessed very great advantages over all lead pipe ma chines heretofore known. It appeared in evi. dence that the defendants, by employing one half of the pressure necessary to work the ther machines, could make three times int quantity of lead pipe that could be made by ny other method.
The trial occupied the court five days, an Judge Nelson, in charging the Jury, gave very lucid and learned history of machinery for making lead pipe. Both the patents of plaintiff and defendants were fur improvement n a machine invented by Thos. Burr, in 1820 This case has been the subject of litigation for a long time, and there was a great excitement reated among our plumbers and those conneced with the business. Attorneys of fame were employed on both sides. For the plain iff, Messrs. Cutting, Staples and Goddard ; for defendants, Messrs. Stoughton, Noyes and Har rington.

On the 13th inst., before Judges Grier and ane, U. S. Circuit Court, Philadelphia, the injunction granted against the machine of Barnum was dissolved upon the following condiions : 1st, That the injunction be dissolved, if defendant gives a bond in $\$ 10,000$, withi ten days, to account for all profits. 2d, That the injunction shall stand if defendant does not give such security within ten days, and plaintiff within ten days thereafter give additional security to indemnify defendant.
The case now stands as it should have stood when application for an injunction was made. We took the ground " that no in junction should have been granted." Our opinions were found ed upon our views of the Patent Laws, and a knowledge of the case. We were honestly sincere in all the remarks that we have made, and we view such questions, keeping individuals out of sight entirely, and look upon the case entirely on its own merits. We seldom are far wrong in our predictions-they are generally fulfilled. See our views on Patent Laws on page 46, this Vol., Sci. Am.

On the 24th of last month an injunction was to be moved for by the owners of Morse's Paent, to restrain the use of Bain's Electro

Chemical Telegraph as an infingement Morse's Patent. The partief were to be heard before Judge Munroe, at Frankfort, Ky., but the plaintiffs never argued the question, but abandoned the motion. We predicted that no injunction could-be granted. We see that some papers have made a very serious charge against the Patent Office, in respect to Morse's Chemi cal Telegraph Patent, stating that as it was is sued, it was very different from whatit was when argued and decided upon by Judge Cranch.
We are very cautious about how we ex press ourselves in respect to patents. Our mind is perfectly unbiased, and we look only unon the ju 1 ing therefore cannet endorse any of the insinuations against the Patent Office. We only call attention to the fact, in order to call out an explanation, if the charges are groundless, knowing that the public look to this paper as vehicle for such information.
We have a few words of advice to give to patentees and the owners of patent rights. We believe that in a great number of cases the owners of certain patent rights have been weakiy wise in prosecuting others, and many very selfishly tyranical, in endeavoring to re strain the use of any machine in the line of their patents, whether, in their eyes an infringement or not, in order to keep the trade in their own hands. Some act upon the highhanded principle of frightening poor men out of their wits from using what they know is no infringement of their patents. We have faith to believe that justice will triumph ultimately over such men. The rights of one inventor, be he ich or poor, are just as good as those of another, and we of ten think that it would be far wiser for some patentees to give their money and energies to the fair competition of their patents in business, than to be eternally jab. bering at law. We only speat of those inventions that are palpably difyerent. We go for pursuing patent plunderers to the utmost extent of the law, "to hunt them up with hound and horn." In giving our opinions upon the Electro Chemical Telegraph, and the controversy between Morse and Bain, we will say that we have examined the drawings of both Telegraphs, and it is our opinion that however serious the former parties may be, yet we would say, it was not wisdom-it is not wisdom, to carry on a systematic prosecution. The beautiful Electro Magnet Telegraph of Morse is good against the world, and it will stand its own-and it would be policy, we think, to stand by it alone, for the claim of Prof. Morse's Chemical Telegraph, as publishd, would not operate at all-it claims the production of marks upon a conducting medium interposed between the broken parts of a galvanic circuit. Now no marks can be produced when the galvanic circuit is broken, it and the metalic circuit are two different things. It was a mistake, no doubt, in the person who made the claim. But why should these companies quarrel, with the telegraph trade but in its in-fancy-they all will become wealthy-wealthy.

Depth of the Ocean.
We have received a number of communications on the depth of the ocean, its density, and the impossivity of leads sinking to the bottom, \&c. They are all written in a friendly spirit, but we cannot publish them, because no naw fact is brought forward, and we do not wish to publish assumptions for facts. One says that the great length of line would float the lead at a certain depth. This we do not doubt, but that is not a mathematical objection. Every body knows that a kite weuld not ascend if strung to a hawser. Another mentions the currents as a compressing force to prevent the lead from sinking. Well, we make no objections to that, only let us first know the depth, number, and velocity of these currents, and then we will be able to say more about them. The subject of currents is a branch of nautical science but in its infancy, thanks to Lieut. Murray for making it a science.

## Communications.

We have not a few communications in our columnsín this week, of the right kind. Short clear and comprehensive. We believethat our $[$ [i] orrespondents in gene

