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The Poetry of Discovery.

"New inventions are, as it were, new creations and imitations of God's own works."-BACON.

Inventions are the poetry of physical sci ence, and inventors are the poets. Between the bards of machinery and the bards of literature, there is a strong resemblance; in fact, the same spirit of inspiration dwells in boththey only strike different lyres. How often has the soul of the poet gushed out in burning strains, after listening to some plaintive melody, wild passing midnight wind, or the cadence of some distant water-fall; and from the falling of an apple, did not the soul of the great Newton grasp the realities of gravitation -that law which "binds the sweet influences of the Pleides, and forms the bands of Orion." Who can tell of the dreamings-the wakeful nightly dreamings of inventors, their abstractions and enthusiastic reveries, to create some ballad or produce some epic in machinery. Every schoolboy knows the story of Archimedes-how he ran in nudity through the streets of Syracuse, at the discovery which he made to detect adulterated metals by the displacement of a few drops of water. All great inventors possess the faculty of imagination in a very high degree. Sir Samuel Morland indited songs and sang them with grace and feeling. Sir Humphrey Davy wooed the Muses before he experimented in gases and invented the safety lamp. Telford, the inventor of iron suspension bridges, penned some exquisite verses, and had a soul strung with music and poetry. Many men whose names stand high in the roll of physical discovery and mechanical invention, have been disciples of Homer, and often visited the shades of Parnassus. In the days of old, it seems, the Greeks believed in the close relationship of music and invention, for they tell us that one of their harpers made the very rocks forget their gravity, and dance in good order into the walls of Thebes, where they long remained as monuments of musical power. There are not a few also, who have heard of the good hearted Father Tournemine, who attempted to construct a machine in Paris, which, by the turning of a crank would play various tunes and allay the cravings of hunger without the expense of provisions, either in the shape of roast beef or plumb pudding.

In all ages peetry has had a wonderful influence upon the people of all nations. The Greeks rushed to victory chaunting their wild songs, and the bards of Cambria awoke those strains which were the laws and precepts of events sometimes cast their shadows before, spring of feeling. No wonder, then, that the Celtic chiefs proclaimed their wills through the voices of their harpers; and the prophets breathed their predictions in the loftiest poetic strains. Who can read Isaiah and Jeremiah and not feel the poetry of prophecy. As poetic prophecy has often foretold mighty re- of the two articles which were published in num was disselved upon the following condivolutions among the nations of the earth, it the Mercury, and part of which we copied into tions: 1st, That the injunction be dissolved, might reasonably be expected that it would our columns, in relation to the conduct of the if defendant gives a bond in \$10,000, within sometimes foretel revolutions in social life. Federal Court in the case of Motte vs. Bennett, ten days, to account for all profits. 2d, That This it truly does, but never to our knowledge about the infringement of the Woodworth Pa- the injunction shall stand if defendant does have mankind looked to it for a prophetic de- tent. The MISTAKE was not intentional, as the not give such security within ten days, and scription of those means whereby many such Mercury gentlemanly premises. We agree plaintiff within ten days thereafter give addirevolutions were to be brought about. The with the Mercury on the point, that it is not tional security to indemnify defendant. invention of printing, the steam engine, and | the practice of the English Court of Chancery other machines, have entirely revolutionized to grant perpetual injunctions when validity when application for an injunction was made. social life, but who has looked to poetic pro- of the Patent, or infringement is denied. The! We took the ground "that no injunction should phecy for its predictions about them? Among | Mercury states that it only referred to perpetu- | have been granted." Our opinions were foundone of the most remarkable discoveries and in- al not interlocutory or provisional injunctions, ed upon our views of the Patent Laws, and a prevent the lead from sinking. Well, we make ventions of the present day, is the Electric which it states were always customary to be knowledge of the case. We were honestly sin-Telegraph. By it, friends can converse togeth- granted by the Court, until the question was cere in all the remarks that we have made, er, although separated by thousands of miles, | tried at law. The following is the spirit of the and we view such questions, keeping individuand by it the motions of the heavenly bodies are article in the Mercury: noted, and intelligence of the same is commu- "The question before the Court, and the onnicated hundreds of miles by one astronomer; ly one discussed by the defendant's counsel, to another, without the least perceptible down and the only one reviewed by us, was as to a having fallen from the wings of Time. Surely perpetual injunction—a final decree. It is this this is a most wonderful invention, and we all Is it 'the course and practice of Courts of know that it is but a few years old. But it Equity' in England, in a patent case, where may surprise our readers to know that the the defendant denies the validity of the patent to be moved for by the owners of Morse's Pactor of madition in general understand the law Indian in page 1

ed. It is stated in Vail's history of Tele- decree, without a trial at law and the verdict Morse's Patent. The parties were to be heard graphs, that the first electric telegraph men- of a Jury ? Judge Wayne asserts the affirtioned was that of a Mr. Lomond, in France, | mative-we the negative. Judge Waynesays: in 1787, who, with wires and an electric ma- 1. The English Chancery will show that for chine, communicated with a person in a neight more than eighty years, injunctions, both proboring chamber. But let us turn to a more ancient telegraph than this: "Strada, the been granted in the first instance in cases of the Patent Office, in respect to Morse's Chemi-Critic, in one of his profusions, in the person of Lucretius, gives an account of a chimerical have been perpetual in the first instance, they sued it was very different from what it was correspondence between two friends by the have been made so without the intervention of help of a certain loadstone, which had such a a jury to try the question of title or infringevirtue in it that if it touched two several ment.' We deny this altogether. The Engneedles, when one of the needles so touched lish Chancery shows nothing of the kind." began to move, the other, though at ever so great a distance, moved at the same time and English authority to prove Judge Wayne in the same manner.

He tells us that the two friends, being each pediment, so as to touch any of the four and accord exactly with the views of the Mercury. 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

Accordingly, when some hundred miles asunder, each of them shut himself up in his closet at the time appointed, and immediately cast his eve 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 own sympathetic needle moving itself to every letter which that of his correspondent pointed at. By this means they talked across whole continents, and conveyed their thoughts to one anotherin an instant, over cities or mountains, seas or deserts."

The above extract is taken from Addison's 119th paper, in the Guardian, which was published in July, 1713, and Strada died in 1649, exactly two hundred years ago. He was the author of Poetical Profusions, and teacher of Eloquence in Rome. Hitherto we have been talking about inventors being poets, but here is poetry becoming invention. Strada could not have described the signalling-magnetic telegraph more faithfully, if he had lived and examined that of Wheatstone in our own day. Was not this production of Strada the prophetic poetic invention of the Magnetic Telegraph? From this we learn that "coming that ancient people. Poetry opens up the foun. and as Strada's chimerical friends used no wires tains of the human heart, touches its well- | 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.

magnetic telegraph was distinctly described by or the fact of infringement, one or both, to tent, to restrain the use of Bain's Electro- of multum in parvo.

poetry hundreds of years before it was invent- grant a perpetual injunction, and make a final | Chemical Telegraph as an infringement of visional and interlocutory, and perpetual, have

A number of cases are cited from the ablest wrong, and it recommends Congress to purchase a few copies of Hindmarsh on Patents of them possessed of one of those needles, for the uses of the Judges of the Supreme made a kind of dial plate, inscribing it with Court. Were it not that there is so much the four, and twenty letters, in the same man- about patents in this number we would pubner as the hours of the day are marked on the lish the whole article. Next week, however, ordinary dial-plate. They then fixed one of we will publish from a work by one of the best the needles, on each of these plates, in such a living English Patent Attorneys, the Practice patentees and the owners of patent rights. manner that it could move round without im- of the English Courts, which will be found to

Interesting Patent Cases.

MACHINE FOR MAKING LEAD PIPE.

On the 12th inst., in the U.S. District Court New York, before Judge Nelson, a very important case was decided by a verdict in favor of the defendants. The case was an action for an infringement of a patent granted to B. Tatham, Jr., on Oct. 11, 1841, for improvements in the manufacture of lead pipe machinery. The defendants were Thomas O. Le Roy and David Smith, who were using a machine under a patent granted to Samuel G. Cornell, Aug. 21, 1847. The plaintiffs alledged that Cornell's improvements for which the patent was granted to him, consist of transpositions of the parts of their machines and were not substantially different from those described in their patent. The defendants alledged that their machine was not only substantially different from that of the plaintiffs, but possessed very great advantages over all lead pipe machines heretofore known. It appeared in evidence that the defendants, by employing one half of the pressure necessary to work the other machines, could make three times the quantity of lead pipe that could be made by any other method.

The trial occupied the court five days, and Judge Nelson, in charging the Jury, gave a very lucid and learned history of machinery for making lead pipe. Both the patents of plaintiff and defendants were for improvements on 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 created among our plumbers and those connected with the business. Attorneys of fame were employed on both sides. For the plaintiff, Messrs. Cutting, Staples and Goddard; for defendants, Messrs. Stoughton, Noyes and Harrington.

PLANING MACHINES.

On the 13th inst., before Judges Grier and The Charleston, S. C., Mercury, of the 13th Kane, U. S. Circuit Court, Philadelphia, the inst., says that we misunderstood the meaning injunction granted against the machine of Bar-

> The case now stands as it should have stood als out of sight entirely, and look upon the about them. The subject of currents is a 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.

ELECTRIC TELEGRAPH CASE.

On the 24th of last month an injunction was

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 copyrights and patents: and that when they cal Telegraph Patent, stating that as it was iswhen argued and decided upon by Judge Cranch.

We are very cautious about how we express ourselves in respect to patents. Our mind is perfectly unbiased, and we look only upon the just rights of every inventor. We therefore cannot 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 a vehicle for such information.

We have a few words of advice to give to We believe that in a great number of cases the owners of certain patent rights have been weakly 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 rich or poor, are just as good as those of another, and we often 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 jabbering at law. We only speak of those inventions that are palpably different. 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 published, 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 infancy—they all will become wealthy—wealthy.

Deuth of the Ocean.

We have received a number of communications on the depth of the ocean, its density, and the impossibity of leads sinking to the bottom, &c. They are all written in a friendly spirit, but we cannot publish them, because no new 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 would not ascend if strung to a hawser. Another mentions the currents as a compressing force to 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 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 columns this week, of the right kind. Short clear and comprehensive. We believe that our