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Patent Office, and Reform of the Patent Laws.

In the article published by us last week, taken from the Washington Union, strong objec. tions are made to the Bill now before the Senate for reforming the Patent Laws, especially that clause which provides, "that all rules, orders and by-laws of the Patent Office, be entered in a book for that purpose, which shall be kept open for inspection to all persons transacting business at the office, and such rules, &c. shall be general in their application in all cases." In advancing reasons against such amendment to the Patent Laws, it is stated that the Office has no by-laws; that its rules, orders and modes of doing business, are printed and public; that nothing has been done secretly, but openly, honestly and impartially, and "the rules never changed for favoriteism." It also repels the charge of partiality and corruption, which the late Commissioner was con_ stantly beset with. All this may be true; but surely this affords no good reason against the above amendment to the Patent Laws. To object to such an amendment, rather affords grounds for suspicion. We believe that our public men are too often accused of bribery and we cannot lay our finger upon any act of the Patent Office which could be classed under such a charge. But for all this, we do not believe that it is perfect-rather the reverse. It needs reforming in some shape sadly, and we hope Congress will call the attention of the Committee on Patents to the subject, empow ering the members to examine witnesses in relation to the matter. There is abundant evidence to prove the Patent Office guilty of injustice, recklessness and partiality. The business of the Patent Office, as it respects decisions upon applications, is conducted upon a system of erratics. Applications are granted or rejected, according to the state of mind the examiners may be in. There are four chief examiners in the Patent Office, each a feudal baron on his own domain. Their decisions, therefore, sometimes resemble boys shooting marbles along the four sides of a rectangle. One has acquired for himself the glorious title of "the guillotine." He knows every thing that was, is, and is not, and never will be. It certainly looks singular to see men making decisions, which resemble a dance of crooked sticks Decisions are sometimes made in the Patent Office. which amount in substance to boxing the bones and throwing the compass overboard.

It is time that there were some uniform rules and regulations for all cases in the Office. One a pplicant will be rejected this week upon some shallow plea, when lo and behold another will receive a patent next week for something which has far less claims to patent protection. The Office is great upon granting patents for flytraps, and such portentous engines of war, even to the placing of a looking-glass in one claim on our list this week. We suppose that this one for variation must be a wonderful rat trap. Some applicants are exceedingly fortunate beside others. A few years ago, an application was made for a new manufacture of hats, a peculiar kind of willow bark being used for that purpose, and a kind which never had been used to our knowledge, and we know all the outs and ins about the business. It was rejected, upon the plea that various kinds of bark had been used for that purpose, and it did money and other \$25 by the Patent Office.

The decisions of the Patent Office are some. times so unjust, that poor inventors are deprived of protection for good improvements, and thus the Patent Office becomes the biggest pirate of inventions in the Union. A working journeyman tinsmith in this city invented a new chimney cap three years ago, and applied for a patent. It was rejected upon the plea that there were plenty like it in New York, and it was described in "Reid on Ventilation." No chimney like it, either in appearance or quality, had ever been seen in New York, and the one in the work referred to, was as like it as cheese is to chalk. The Patent Office was then reasoned with on the subject, and in a letter sent to Washington, there was an affidavit in respect to its qualities, from a gentleman in this city, Mr. P. Naylor, who knows more about such things, practically, than the whole corps in the Office. But no matter, the Patent Office informed the inventor, (Mr. S. Bull,) that they did not take such evidence to be their guide, but if he would come on and show the superiority of his cap, they might grant him a patent. At that time Mr. Bull had not the funds to go to such an expense, and for want of protection to his invention, the Patent Office has allowed him to be plundered of his just rights.

We like impartiality, system and fair dealing in every respect. We don't like to see one applicant refused a patent upon grounds which are held to be no objection to the granting of a patent to another. We care not who the applicant is, let him be Jew or Gentile, when he have bought this invention, cannot be produapplies for a patent, let his application be treated without moodiness and with impartiality. The Patent Office was mighty patriotic in the case of Mr. Bain, but recently, as if to make amends for past sins, it has granted a patent to a foreigner for a peculiar curve of a bucket for a propeller wheel, and rejected the application of an American citizen for a bucket of a peculiar form, which has been tested satisfactorily on a large steamboat. He is soon to receive his patent from England-that protection from a foreign government, which has as yet been denied at home.

It is a well known fact, that many applications for patents are rejected at first, and then after a long correspondence, or a visit of some well paid person to the Patent Office, who knows how to manage the case, or else a visit at great expense by the inventor, (but the latter is not generally successful,) a patent is granted, perhaps with the alteration of one word to suit the whim of an examiner, and thus the rejected applicant at last gets a patent, and a patent that will be supported at law too. We dare say a hundred such cases happen every year.

The present Commissioner thinks the whole fee of rejected applicants should be retained. instead of \$20 being returned as is now the case. Why? because the correspondence is generally so lengthy and expensive to the Patent Office. But whose fault is this? That of the Office. If the reasons of the rejection are good, then the controversy will be short. We never trouble the Office with a scrap, if the reasons of rejection are good, and we never will do it. There is one reform which we would like to see carried out in respect to the Patent Office; and that is, "The first letter of rejection to be special, and to contain the heads of defence, in order that the applicant may examine and appeal to the Judge, paying down \$25 on the notice of his appeal, and if defeated to lose it; but if successful, to be paid back his

Paine's Electric Light.

Scientific American.

There is no subject I believe which has been brought so prominently before the public, within the past year, and with so little satisfaction, as the Electric Light of Mr. Paine. He has written a number of letters on the subject him. self, which have appeared in the Scientific American, and during the past few months I have read various long communications by others, in different papers. The discovery of Mr. Paine is stated to be an entirely new property belonging to magnetism, or mechanical electricity, (the public not being fully enlightened on this point, which is kept secret,) whereby water is resolved entirely into oxygen, or entirely into hydrogen, according as it is combined with positive or negative electricity; and furthermore he asserts that he has discovered electricity to be a ponderous substance. Speaking for myself, and I have no doubt others have the same feelings, I have been greatly disappointed in respect to this alleged discovery. Expecting every week to hear something of its principle, as Mr. Paine promised in 1848, I week, that persons in New York and Boston had bought Mr. Paine's interest in the discoabout the sale of inventions, and will venture to assert, that the names of the persons said to ced. Another account which I have read, states that Sir George Cayley, a very scientific he was charmed with the discovery, and would consider it a favor to introduce it to the British Scientific Association. Another account states that Sir C. D. Archibald, a member of the Royal Society and an officer of the royal house. hold, has been on a visit to Worcester to see the Light, and has been perfectly astonished ; and he too solicits from Mr. Paine the high honor of introducing the Light to the British public. Behind and beyond these noble names and numerous paragraphs, there is something perfectly inexplicable. What can it be?

Having conducted many experiments in electricity, and having heard numberless lectures on the subject, by some of the most eminent men, I will present a few facts in connexion with this subject, which, although not new to some, will be new to many.

The Hydro-electric Light of Mr. Paine is hydrogen, and these two gases when burned on a piece of calcium, produce what has long been known as the Drummond Light. Water was decomposed by electricity many years ago by Dr. Wallaston, and by the voltaic battery by Sir Humphrey Davy. The decomposition of the water is not therefore new. Mr. Paine has asserted that all the water in a vessel can be resolved into hydrogen. If this is true, then he can resolve oxygen into water. I should like to see it done, and until I see it fairly done, will not believe it. The ponderability, as Mr. term compression. Beccaria succeeded some that it will take some time, as the developyears since in fracturing to atoms a ball of ment appears to be slow work.-ED. glass, two inches in diameter, by means of an

electric spark passing through a drop of water

dawned upon the world. It is my opinion, however, that he has made some great mistake-overlooked something in conducting his experiments.

Although Mr. Paine has made some extraordinary statements himself, it may be that he is indebted more to the imprudence of his friends, like Mr. Porter, for highly colored descriptions of his discovery. So far as the opinion of men of science is concerned, they cannot be satisfied with the mere exhibition of the hvdro light-that is nothing to them; it is the new manner of producing it. Until this is done by Mr. Paine, in a public lecture, or description, the reported discovery will be viewed as something suspicious. Every good discovery should meet with its reward, and this one will, if it is worthy. R.,

[In an article which formed a leader in the Tribune of Thursday, 13th, the whole subject is reviewed, and Prof. Henry's objections to the philosophy of Mr. Paine's discovery, attempted to be overthrown. In it is stated, to the objection of Prof. Penry, that "Mr. Paine have in vain looked for the development of does not separate the gases of water, hut prowhat every one would have rejoiced to know, duces them cotemporaneously from two sepaas a grand addition to scientific discovery. I rate bodies of water"-thus intimating that read in a Boston paper, the "Transcript," last the effect produced, produces a far greater amount of power, than it required to produce the effect-the secondary being greater than very for \$5,000,000, half a million down. I the first cause. Instead of this obviating Prof. for one do not believe this. I know something Henry's objection, it is no answer to it at all; for the water must change its condition, and what is that but the same thing as saying, a separation of the gases. In a change of condition, there is always a change of property, like ice absorbing coloric and becoming water, and English gentleman, wrote to Mr. Paine, saying by increasing the amount, becoming steam; and to do this artificially, requires expense or equivalents of force to produce like equivalents. This is the philosophy of that part of the subject. In the same article we are told that the water is decomposed by ordinary magnets set in motion by clockwork, except that into the helices he has introduced a substance never before employed for that purpose, and this he keeps secret." Are we to understand by this, thet he employs "electro magnets"? They are not common magnets. It is also stated, that Mr. Paine is going to introduce his apparatus into the Astor House, arrangements now being made for that purpose, the pipes and burners now used being perfectly adapted to burn Mr. Paine's carbonized hydrogen.

What is the meaning of carbonized hydrogen? How is Mr. Paine to get his carbonic gas out of his water? We are also told. that stated to be formed of water decomposed by the experiment is to be made to satisfy a numelectricity. Water is composed of oxygen and ber of highly respectable, responsible parties, "who propose to buy the patent right in case of success." Mr. Paine has no patent, and he has asserted that he would have none, the glory of the discovery was all he wanted. But we believe he is now right to get as much for it as possible. A man should be paid well for every good discovery. "The value of the patent," says the Tribune, (what "patent?") " is fixed at ten millions of dollars for the Unied States, and the parties spoken of are to put up \$100,000 as a guarantee for the purchase of it, if Mr. Paine will light the Astor House Paine would call it, but rather what I term for six nights at the nominal expense of five the mechanical power of electricity, has been cents for a thousand feet of gas. Mr. Pedrick long known; and Mr. Paine, although he thinks of Boston, is the gentleman who has made the he did, did not make the first discovery of bargain for himself and Mr. Paine." We shall breaking a vessel, by what he would perhaps see how all this will end: but we are afraid

> Steamship Viceroy. The Stea mship Viceroy from Galway, Ire-

	11	not constitute the <i>legal</i> subject of a natent	This is the rule working both ways, and is	contained in a small consists within the contra	The bloamship viceloy from daiway, fiel
		mot constitute the regar subject of a patente.	Inis is the rule working both ways, and is	contained in a small cavity within the centre	land, arrived at this port last Saturday. She
1			nothing more than justice. Another reform is		
1		vice of Mr. Elliot in Washington, who advised	the return of models to those who are rejected.	imperfect conductors, are rent in pieces by an	though she made a good passage, she failed to
		him not to prosecute his claims, and we being	Some models cost four and five hundred dol-	electric discharge between wires placed within	compete with the Cunard's. In all likelihood
		an acquaintance of some twelve years standing	lars, and it is rank injustice to retain them af-	them.	j =
		with Mr. Hamilton, we told him to take Mr.		The lighting of streets and buildings by vol-	the project will be abandoned, for some time
		,	We have pointed out some of the impartiali-		at least.
		most prudent, to follow. The matter was drop-	ties of the Patent Office, and could produce	eminent men during the past thirty years, but	Steamship Atlantic.
- 1			plenty more facts to back up all we have set		
1		Next summer we met him in New York, when	forth. Does this not show that something	has failed; although, for experimental purpo-	for Livepool on last Saturday at 12 M. She
		he pulled a Scientific American out of his pock-	ought to be done with this peculiar Depart-	ses, as the splendid voltaic light of Archereau	unloaded, loaded and was off in five days
		et, and pointing with his finger to a claim	ment of the government? The principles of our	in Paris is an evidence, no artificial light can	She will no doubt make a good passage.
		granted for "a new manufacture of nails made	governmentarecorrectand sound, but it is in the	exceed it in splendor. Mr. Paine states that	
- D		of muntz metal, (brass,) exclaimed, "So much	Departments, where there are so many depar-	he can produce his brilliant hydro-electric light	Persons writing to this office for information,
- 4	5	for the impartiality of our Patent Office." We	tures from positive good to comparative	at little or no expense at all. If this is per-	and charging us with the postage without en-
	5	could pile up a number of such cases.		fectly correct, I may say that better times have	
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