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Commissioner of Patents' Report.

Having briefly reviewed the Reports of three Chief Examiners, the fourth is that of Chief Examiner L. D. Gale : it is the best and most elaborate and interesting. He does not seem to have grudged his labors, nor does he com. plain of hard work, like Examiners Fitzgerald and Renwick. His field of examination embraces five classes-1st, Agriculture; 2nd, Chemistry; 3rd, Leather; 4th, Household Furniture; 5th, Wearing apparel. He examined 599 cases; passed 245, and rejected 354-[the report is not correct, here]-a great number, but not quite so many in proportion, as the two Examiners named.

The most important and valuable inventions presented in 1849, he states, are to be found in the class of chemistry, especially three of | that no adequate room nor provision is made them : one was for an improvement in sugar manufacture [Melsen's process,] the other, Dr. Hare's process for converting animal matters into agricultural fertilizers, and the next was for the use of resin oil in making printers' ink. It is stated that neither of these inventions were patented, but there was a probability that they would be, after a prolonged correspondence was terminated, and Mr. Gale thought it was right to notice them. Beehives, washing machines, plows, churns, and bedstead fastenings, the Report states, have arrived at that point where the limits for improvement are very narrow. We understand that the Patent Office has decided that atmespheric churns are not patentable-that air has nothing to do with the churning to produce butter. It is no doubt true that butter can be produced by agitation in an air-tight bottlewe have seen this done frequently, with sweet milk, to produce a fine salve for burns. Six patents were granted for small improvements on Cultivators, and twenty for Seed Planters. Twelve Harvesting Machines were patentedone was for a rake to move the grain to the back of the platform, to deposit it in bunches on the ground. One patent was granted for a machine to harvest cotton and abolish handpicking. The Report speaks doubtfully of its At is not possible for a poor inventor to secure (Mr. Ward) had experienced these difficulties; application to picking, as all the bolls do not a patent in England. The patent laws of he had had to proceed in Chancery, and had ripen at the same time on the plant. If such a machine were practicable, it would be, perhaps, the most important invention of the day. Nine patents were granted for Hulling Machines, and nine for Grain Separators. Five patents were granted for Bee-hives : we shall publish the whole of the remarks about bees and their hives, next week,-new ideas are thrown out, which must be interesting to our apiarians. Three patents were granted for Distilling Apparatus; one was for elevating the head of the still into a cylinder, and having perforated pan-shaped vessels therein, containing charcoal, which purifies the spirits at one operation. Especial mention is made of the process for coating iron with copper-the invention described by us two weeks ago, a sample of which we have in our office. A process for making Water-gas was patented, and Prof. Gale states that an English patent was granted to Michael Donovan, (Prof. Donovan, of Dublin, we suppose,) 40 years ago, for mingling spirits of turpentine, at the burner, with gases derived from water,-the remarks about water-gas are judicious and conclusive, presenting a great smount of new information. He states that money and brains. The "Chaff Wax !"are too highly al ored with eas

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It is not possible to dwell particularly on all the inventions spoken of in this Reportwe have noticed a few. We like the Report, Office.

The Report of the Machinist, Mr. A. B. Stoughton, informs us that there are 15,117 models in the Patent Office, and only 7,529 for which patents were granted. He says that no adequate provision is at present made for is 500 francs (about \$100) for five years, 500f. the proper exhibition of models pertaining to more for the next five years, and 500f. more rejected applications. He says that many are rejected as machines invented in foreign countries, and only described in books not accessible to inventors. If he could have added for the Government acts as public prosecutor, that "many were rejected because they were supposed to be like some described in foreign In our country the Patent Office often acts like books." he would have struck the nail on the head at once. The number of models, he supposes, cost \$500,000, and he justly complains for their exhibition, so as to benefit inventors. We subscribe to this sentiment, in part; we say that the Patent Laws should be so altered. that rejected applicants might have their models returned. Here we are informed that the Patent Office has locked up in its Black Room, more than \$250,000 of the property of our inventors-property for which no adequate return has ever been made. There is one wretched mode of action in the Patent Office, viz., to reject applications and give reference to some rejected application ; this is a nonsensical mode of doing business. There are eight rooms devoted to models, and they are still accumulating with great rapidity. It is suggested that, for designs on stove plates, a drawing, and no model, be sent to secure a patent this is a good suggestion. The Report of Mr. Stoughton is short, but very good for all that; the suggestions made by him evince good judgment and good sense.

Patent Laws of all Nations.

Many of the inventors, in Great Britain, threaten not to exhibit at the World's Fair, formed by Parliament at the Winter Session. The Attorney General has a fee of four gui-

of £5. It is again sent to the Queen, and re- | ly ruined. turned with £7 13s. 6d. additional cost. The per, the Deputy Sealer, and the "Chaff Wax," -all have their pickings out of the inventor's their action and decision by the English law. What office to exi t in the middle of th

Apple-paring Machine, illustrated on page 84, \$1,625-a most scandalous charge; and the a standard monument of its inadequate procuriosity of all this is, the great price of an visions to fulfil the claims of justice-the end Irish patent: it is not worth so much as a and aim of all courts of law. There is as Scotch one, yet it is dearer than an English much business to be done in New York as one. The effect of this is shown by 23 pa-September, and only 5 for Ireland. The Bri- that their time might all be nearly occupied in tish inventors want their Patent Laws altered the trials of patent cases alone. The present so as to resemble those of France.

> for the fifteen years. These sums are paid in instalments of 100f. per year. The French law is superior to the American Patent Law, and holds the inventor harmless of expense. a prosecutor of the inventor, and our law courts are more troublesome and expensive to inventors than those of any other nation.

> In Eelgium patents are granted for five or ten years, and the government tax may remain unpaid for two years after the grant. In Holland the patent fees are about \$750 for fifteen years. In Prussia and Russia the government exercises a discretionary power in granting or refusing patents. In Russia the patent is granted for ten years, and costs about \$250 : in Prussia for eight years, almost nothing-not half as much as in the United States. The other countries of Europe are scarcely worth while mentioning.

We hope that the inventors of England will be able to get their PatentLawsreformed with all despatch, by Parliament: we also hope that the Great Seal will be modified from the size of a turnip to a decent sized crown-piece.

To show how the English Patent Laws work, at the meeting referred to, Mr. Ward, an inventor, moved a resolution declaratory of the defects of the existing patent laws, and of the delays and expenses which were engendered by the legal tribunals. He chiefly dwelt on the latter point, observing that if a patent cost only 5s., the expense of maintaining it through the present legal processes would of itself be and to do all they can to prevent others from ruinous. Patentees were constantly exposed exhibiting, unless the Patent Laws are re- to infringements, and the first step in defence cost the poor patentee 2001. (Hear.) He that country were made for the rich, and af- been occupied five months in examining witford ample means for robbing the poor. To nesses in the court, owing to the system secure a patent in England, every step is at- pursued of daily hours and half-hours. He tended with expense-money, not paid into had had to go through all this though the the national exchequer, but absorbed by the party proceeded against made no defence. great officers of state and their underlings. | (" Shame !") The case occupied five, yes, and nine months, and he had to pay 1,400l. neas for making a report upon the inventor's as costs, though he gained his cause triumphdeclaration-a subject about which he is as antly, and though there was not a shadow of innocent as the hippopotamus is of astronomy. | pretence for the opposition-the case being at The Home-office pockets seven guiness and | last decided in an hour. (Hear, hear.) He a half for what is called a warrant. This believed his opponent, who was an enormously warrant is sent to the Queen, and sent back | rich man, would never have given in but that with additional expenses; for even royalty, his health had suffered from the vexation it seems, has some nice pickings out of the in- caused by the suit. (Hear, hear.) At preventor's pocket. When the instrument comes sent, a patent simply gave a right to go to back, the Attorney General has another slice | law; and hence a poor patentee was frequent-

This is a black enough picture in the work-Signet-office, the Lord Keeper of the Privy | ing of the law, but let no one suppose that Seal, the Lord Chancellor, the Lord Chancel- the evil is one belonging exclusively to the lor's Deputy, the Purse-bearer, the Clerk of other side of the water, the same evil exists the Hanaper, the Deputy Clerk of the Hana- here, our patents are granted upon the same principle, and our U. S. Courts are guided in

manent U.S. District Court in New

process. Particular mention is made of the and, for Ireland, \$675 more-altogether about tedious openings and closings of the terms, is would keep both Judge Nelson and Judge Judit is able, useful, and does honor to the Patent tents having been secured for Scotland, last son sitting all the time; in fact, we believe term has been taken up with the trial of only In France patents are granted to the people two cases, and while there is a great number of all nations, for ten or fifteen years : the tax still on the docket, Judge Nelson had to set off and away. We know a witness who has come and gone back to his home, a distance of 190 miles, and his case was never brought up, and at last he had to go away altogether. It is wrong to have cases hanging on in suspense. Our courts are celebrated for "masterly inactivity." It is time that some reform was instituted, and one means to that end would be an open U. S. District Court in this city, for there are not adequate court provisions made for this city, in comparison with other Districts, when we take the number of inhabitants into account-for patents, we mean.

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Improvement in the Manufacture of Sugar. Three weeks ago we noticed an improvement in the manufacture of sugar, by the centrifugal machinery constructed by Mr. Hartson, No. 58 Vesey street, this city. Since that time we have heard some doubt thrown upon the subject-unbelief manifested. Well, we have now samples of the sugar before it undergoes the mechanical process, and after it has been submitted to it, the one is like red sand, the other like pure white. We saw the brown sugar mixed with molasses, and watched the whole process until it was completed. Mr. Hartson is now making two of these machines. every week, for the South. We believe it to be one of the greatest inventions of the age. The process of the sugar manufacture has been greatly simplified within the past few years, and it has yet to be made more simple still. We shall be enabled to present engravings of this machine as soon as patents are secured for the improvements of Mr. Hartson at home and abroad. The improvements relate to the mechanical arrangement and construction of the machinery, and are truly valuable and important.

California News.

The last news from California announced the breaking out of the cholera there. It had only appeared in a mild form, and the season was not favorable to its propagation. The gold was still abundant, but the Indians, in some parts, were getting troublesome, and a band of robbers were committing great depredations in the valley of the Sacramento. The wet diggings have been unfortunately subject to great freshets, and the dry diggings alone offered inducements.

A Present.

We have received a present of a draught of a Card Making Machine, made by Mr. J. E. Earle, a young man of Leicester, Mass., who presents it to us as among his first efforts at Mechanical Drawing: it is well done. Mr. E. is a young man, enthusiastic to be a first rate mechanical draughtsman; he no doubt will attain to this distinction, as he possesses the very qualities which will make him so distinguished.

Patents and Engravings.

Four out of the number of patents in our list of Patent Claims, this week, were secured through this Office. It is a matter of no small ion to feel at the

	when gaues are too highly charged with car-	what an once to exist in the middle of the	A Telmanent CIS, Districted attan new Torat	satisfaction to feel that the improvements se-
	bon, iron heated to redness will take up the	nineteenth century, and how characteristical-	Our editorial page is mostly taken up, this	cured are not trifling, but really useful. Along
- 1	excess of carbon, and produce a fine illumina-	ly the title describes the whole process! The	week, with matters relating to patents. We	with publishing the claims, which are adver-
	ting gas,-he dees not think much of the wa-	fees, including the stamp duty, amount to the	believe that every class of our readers-those	tisements, it may be said, for the benefit of in-
	ter-gas processes. The process for making ar-	sum of £96, or about \$500-	interested in patents, and those who have no	ventors, and of great moment to others inte-
		The system of paying for public services by		
1	consists in submitting animal matters to the	fees is one of the remnants which ought not	rest in them. Every man, we don't care who	for their interest to get engravings of their in-
:	action of mineral acids-one part of sulphu-	to have survived the times of Castlereagh and	he is, should have some acquaintance with	ventions published in the Scientific American.
i	ric acid to five of animal substance. Coppe-	Sidmouth. The public officers of England	Patent Laws. We now touch upon another	The Morse line of telegraph have laid their
1	ras will also answer: as a deodorizer, the	are handsomely, even extravagantly paid,	question—it is one for the consideration of our	
	copperas has long been known.	without the tortuous system of extracting	Government; we allude to that which is in-	wires on the bed of the Hudson river a little
;	A patent granted for an improvement in	hard-earned money from the struggling sons of	dicated in the caption of this article, viz, a	above Fort Lee, which gives a free communi-
	tanning, consists in unhairing the hides by a	toil.	permanent open U.S. District Court in New	cation with the South and West.
-	composition of lime, potash, and salt, and the	The cost of obtaining a patent, not including	York City. The law business now before this	Two hundred glaziers are employed on the
Ц	use of acids to open the pores of the skin, then	fees for agency-if unopposed-is, for Eng-	Court-the number of cases which have been	Exhibition Building in Hyde Park. Each
Ē	at once submitting the same to the tanning			
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