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Miscellaneous.

Foreign Corresponde London, 5th Feb., 1851.

The great Crystal Palace, as the building for the World's Industrial Exhibition hasbeen | Don't let us have the American Patent Office, termed, is now nearly finished, and although not quite complete, it has been open for visitors for some time. . The price for admission Journal, in quoting an article from the Scienhas been about \$1,25-a large fee, indeed; tific American about a reform of the English year, by obtaining the pumpkin ingredient as none but the higher classes have been able to | Patent Laws, wherein the American system is avail themselves of its provisions, nor was it recommended to the attention of the British, intended for any body else. This is right in | says, "we like free trade in patents as in othone respect, but not in another; those who can pay, and are willing to do so, it is no the Americans in passing judgment in the harm to allow them an opportunity for that Patent Office upon applications." An impurpose. Another good thing is the purpose for which this money is set, spart viz., charitable purposes, and for rewarding the merited | \$25 be paid down when granted, and \$35 eveefforts of the industrious. Some scientific men ry year afterwards, until the term expires, unhave objected to the building as erected, on less it is found unprofitable, when the patenthe ground of a want of strength: among the number is Prof. Airy, the Astronomer Royal, yearly tax. I think this is a good plan, and a man of great mechanical knowledge. His is well worthy of your attention in America. fears, it seems, have been dissipated by the Commissioners appointed to examine the build- the government prosecutes for infringement. ing and report on the same. To look upon it, in all its vast extent and fairy-like fragility, a feeling of insecurity respecting its strength, is the World's Fair. natural, but we have been so accustomed to witness large strutures, having giant pillars of stone for supports, that we are ready to forget the superior strength of iron, of which this building is mainly composed.

easily accommodated in the building after all; of Stockbridge, Mass. He has recently made the articles for exhibition are arranged. This enquiries respecting them; and learns from is a great number, but it is not too large. No their present owner, that they measure 9 feet one can form a true idea of the vast structure 102 in. in circumference, 6 feet from the without looking upon it; it is a work which ground. That they spread over a circle 50 has never had a parallel in any age or coun- | feet in diameter, and rise 68 feet in length as try. A few months ago all the materials of which it is made were lying upon the ground lightful shade, greatly increasing the value in the form of unshapen, hard rocks; they and beauty of the property, and being highly have been submitted to the moulder's crucible, and are now standing in grandeur and in beauty, forming a structure unique and unlike anything ever erected by man since the world began. On the 30th of last month, during a very high wind, and such winds are very common here, part of the roof was suddenly disting. placed; this created an uneasy feeling about its insecurity, but it was ascertained that the cause of this was owing to a neglected piece of work. A great deal of the inside work will not be finished until the machinery is placed

by light. dryers used in boiling. I do not know what suspended from the cables. The planking to reform of the British Patent Laws : it is high was put into the oil, when boiled, which I Paris. be 20 feet wide, intended at present for teams time they were reformed. I hope the present have experimented with, as it came from New It is said to be the greatest suspension bridge Parliament will reform them, and that before The mud produced on the macadamised part York ready boiled for use. A. D. BROWN. the Exhibition is opened. No man can exin the world. of the Boulevards is (says the Moniteur du Clinton, Ga., Feb. 16, 1851. [The Wheeling Bridge is 1,010 feet from pose an unpatented invention and feel safe, as Soir) to be turned to account. A person, the mere exposure of it publicly would invalicentre to centre of the towers. The strands of named Taboureau, has obtained permission to [We have known of many such cases as date the patent, if the said patent was subsewire used are No. 10, capable of sustaining the carry it away for the purpose, after having that described by our correspondent. In prequently secured. No poor man can obtain a paring cotton goods for what is termed the amount of pounds stated above. Mr. Ellett had it carefully washed and sifted, of having "Adrianople Red," a great deal of olive oil used 550 strands in each cable. The Niagara patent in England; if a working man inventa the silicious particles made into bricks to clean is usel, and there are hundreds of cases on Bridge uses more than a half less (6-11) numthe most meritorious and useful machine, or knives with. A hectolitre of the mud produmakes one of the most important discoveries, ber of strands. The ten cables will, thererecord where such goods have ignited spontaces ten bricks, which are sold at 20c. each, he must get a man of wealth to assist in seneously when piled up in heaps. It is Ber. | fore, support only 1,625 tons, less the weight and so give 2f. for each hectolitre. It issaid curing a patent, for assuredly he cannot do so tholett, we believe, who treats this subject of the structure. The Wheeling Bridge is cathat a good workman can eara 20f. a-day by himself, the fees being from \$700 to \$2,000 somewhat extensively. Great care should be pable of supporting 4,950 tons, less the weight this new kind of industry. for the United Kingdom and the Colonies. A exercised by those who are packing cotten, of the structure. We suppose there is a missimplification of the mode of obtaining pa- so as not to allow grease and oil to get among take somewhere, as the Queensten Bridge The Hudson River is now open to Albany in tents is demanded, and a reduction of the fees 1t. should be built stronger. and the steamboats are soon to go up. **p** p

to about \$130. I hope these reforms will be carried through so that justice may be done by the Patent Laws of the British realm to the to some, but nevertheless implies the whole poor inventor, as well as the rich. The jour. meaning of this little article better than any nals devoted to the interests of inventors here, advocate a new law-a mixture of the Ame rican and the French codes. They say,espionage system, by which so much injustice is done to applicants. The London Patent er things, but we do not want the practice of provement of the Patent Law recommended, is, that a patent be granted for 21 years, that tee can let it expire just by not paying his It is derived from the French system, where I will endeavor to give you information re-

gularly, respecting all matters connected with EXCELSIOR.

Growth of Shade Trees.

A venerable octagenarian now residing in Brooklyn, when 15 years of age, planted four elms, less than 3 in. in diameter, before the It is calculated that 20,000 persons will be dwelling of his father, in the beautiful village near as can be ascertained, affording a deornamental to the place. Who would not by a similar forethought and triffing labor, thus provide for the pleasure and happiness of generations yet to come. This gives a growth of over 1 an inch per annum in the diameter of trees, and a fact beyond dispute worth no-W.

(For the Scientific American.) Spontaneous Combustion in Cotton.

I see in Arthur's Home Gazette that the of the facts in the case. As we have already appearance. Hediscovered this by examining Board of Underwriters in New York wish to stated, this shows there is an amount of ignothe electric light displayed in London. He ascertain, by chemical tests, "is cotton subject and the heavy articles properly arranged. rance all round about on the subject. also states that from all evidence yet adduced, to spontaneous combustion?" I do not know There is one point not yet definitely settled (and the letter of Dr. Colton, and the articles whether it is a hoax or not, but you may tell by the Commissioner's of the Exhibition-this Gold Solutions. of Mr. Wright, have been re-printed in Engthem to take a small lock of cotton, say from There are three solvents of gold, aqua-regia, is the scale of prices. Exhibitors, and those land), nothing has appeared to overthrow the 🛔 to 🚽 oz. and saturate it well with well-boilor nitro-hydro-chloric acid, aqueous chlorine, who are agents of exhibitors, together with report of the Scientific Committee who invesed linseed oil, such as painters commonly use, the members of the public press, will be aland a mixture of the chromic and hydrochloric tigated the subject. squeeze all the superabundant oil from it, and acids; this last mixture, as well as chlorine, lowed free admission, but it is doubtful if at lay it in the sun, in a hot day, and it will take is inconvenient and uncertain, but the nitroany time it will be thrown open free to the Queenston Suspension Bridge. fire by spontaneous combustion in twenty mimariatic acid dissolves it very readily, forming public. I think that a fee of about 1s. (25 This second structure which spans Niagara cents) will be the lowest charged, and this will nutes, - in the shade it may be two or three with water a solution of almost the only salt River has recently been opened to the public. hours. I have tried it many times, to gratify of gold, though the metal unites with several not come into effect for some time ; not at least The towers are built on each side, and it is until the nobility and more wealthy classes the curious and convince the skeptical. The of the elements,-oxygen, bromaine, iodine, 1,043 feet from tower to tower. There are te have seen the whole in operation, and the fee cotton must be pressed together as compact as &c. be ten cables in all, each cable made of 250 can well be done in the hand, and must not for them will likely be about three or four dolwires; each wire warranted to bear 1,500 Æthereal Solution of Gold. be disturbed by loosening it after you saturate lars. pounds. The cables are firmly anchored in the To the above solution add sulphuric ether, it. It is nothing new under the sun that cot-I suppose I may expect a good representarock, and pass over two massy stone towers this will separate the gold from the acid, and ton or hemp will take fire by being saturated tion of American skill and genius displayed. some 14 feet high. The cables, when extenthe ether holding the gold in solution will float France will no doubt stand very high in the with oil, but that it should ignite so quick is ded, have the shape of a rainbow turned upupon the surface of the acid, from which it what has astonished me. Some kinds of boilscale of national exhibitors. The taste and side down. Instead of the planking and pathmay be poured off, and kept for use in a dark ed oil will cause the cotton to ignite much skill of the French are proverbial. way being over the cables, it is under them, place or an opaque bottle, it being decomposed quicker than others, owing, I suppose, to the Strong efforts are now making to obtain a and the work to be sustained by iron rods

Ground Pumpkins and Good Brooms. The above caption may seem rather quaint other title which suggested itself.

Scientific American.

Ground dried pumpkins is an article of merchandise, prepared by the United Society of Shakers, at Harvard, Mass., and is the best substitute for the pumpkin "yellow and ripe from the field," that we know of. Good pumpkin pies may be made at all seasons of the above, and following the annexed direction for use:-

To one pound of pumpkin, add 12 quarts of milk and one egg to each pie. Stir the pumpkin with the milk, set it in boiling water from 20 to 30 minutes, then add more eggs, sweetening, spice, &c., to suit the taste.

Pies thus made will have the delicate appearance of squash with the flavor of the pumpkin. Crackers and water may be used as a substitute for milk. when milk cannot be had.

We have been favored by the Harvard Society of Shakers, through one of their members, Mr. E. Myrick, with a sample of brooms for which they will please accept the Editor's thanks. Any one wishing good New England pumpkin pies at any season of the year, and a good broom to sweep the kitchen which will and enter the cloth all as free and loose as posnot disconnect from the handle, had better send orders to the care of Mr. E. Myrick, addressed to South Groton. Mass. and we will clean cold water and dry in a warm place. guarantee they will not be disappointed in either article when received.

Paine's Light in Britain --- A Mistake. In a communication to our worthy cotemporary, the London Mechanics' Magazine, of Feb. 1st., Mr. S. L. Freemont has made a mistake in attributing to the Editor of the Scientific American any doubt about water being less than a compound body. The editor has never expressed himself in such a manner as to convey any other idea than he believed water was a protoxyde of hydrogen. Mr. Freemont entertains the same views exactly as we do.

Paine's Light is creating quite a sensation in England—a patent has been taken out there for it, and one applied for recently at Washington. Our cotemporary, the London Patent Jour. of Feb. 8th, has a correspondent signing himself "C," who makes some very excellent remarks on the subject. He says, "a bright white light is very deceptive as to its illuminating power when judged of merely by its

Choice Receipt for Dyeing.

SCARLET.-Dip the cloth in a solution of alkaline or metallic salt, then in a cochineal dye and let it remain sometime, and it will come out permanently colored. Another method. Half a pound of madder, half an ounce of cream tartar, one ounce of marine acid, to a pound of cloth. Put it altogether and bring the dye to a scalding heat. Put in your materials and they will be colored in ten minutes.

The dye must be scalding hot. Rinse your goods in cold water as soon as they come from the dye.

[We copy the above from an exchange, in order to point out the errors, for assuredly they are very great. It is stated above that the cloth should " be dipped into a solution of alkaline or metallic salts." This is wrong; if the cloth were. dipped into a solution of common salt, it would not answer. Metallic and alkaline salts are entirely different. To dye a good scarlet, let the cloth be well cleansed from all grease and dirt, and put into a tin or clean copper vessel as much clean water as will cover the cloth well. Put in one ounce of ground cochineal for every pound of cloth, and boil it five minutes, then add a wine glass full of the chloride of tin, one ounce of cream of tartar for every ounce of cochineal, stir all up, sible ; boil for one hour, and a beautiful scarlet is the result. After this, rinse the cloth in

The Atlantic and Arctic.

At a meeting of the Architectural and Archæological Society on Wednesday, the Chairman, Mr. Frank Howard, asked whether the breaking down of the Atlantic had anything to do with the peculiarly polished and steel-like appearance of the machinery observed by Mr. Arthur Holme? Mr. Horner observed, that Mr. Holmes' remarks applied to the Arctic. There was a great difference between the engines of those boats. The Arctic had the most highly finished engines that had come from the other side of the Atlantic.-[Liverpool Times.

The Baltic.

This noble steamship arrived at her wharf on Thursday last week, taking all our citizens by surprise, by her quick passage of only twelve days from Liverpool. A writer in the Tribune, signed Philopanti, made the Baltic quite inferior to the Asia. Another signing himself Practice made out Philopanti to be quite ignorant