Scientific American.

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Materials for Paper. The demand for paper has increased so rapidly during the past five years, that the price of the raw material-cotton ragsused in its manufacture, has advanced to such a degree as to excite attention, and challenge inventors to produce a cheaper substitute. Various materials have been proposed to us from time to time. as substitutes for rags, such as sea grass, Florida grass, the cotton plant itself, and other vegetable productions. One paper in our country, the Philadelphia Ledger, has been printed for some time on a composition paper of 66 per cent. of straw and 34 rag pulp, made by Mellier's process. This paper has a firm grip, and looks tolerably well, still, it affords evidence that even the common qualities of printing paper have not yet been made from straw alone. It is, however, a great improvement on the best straw paper hitherto made, and it may be still further improved. During the last fall, G. W. Beardslee, of Albany, N.Y., exhibited to us some pulp and small samples of paper made from wood, and he stated, that from the experiments which he had already made, he was satisfied he could make as good paper from different kinds of wood as from cotton rags. During the past winter he has been prosecuting his experiments, and the result is now before us in some copies of the SCIENTIFIC AMERICAN, printed on Bass wood paper, likewise some writing and other samples of paper sent for our use, to test their qualities. We have also examined various kinds of paper made from different kinds of wood, by Mr. Beardslee-from wrapping to fine drawing paper, all of a very superior character. The manufacture of paper from numerous kinds of grasses, straw, and wood, is not a new thing under the sun, all this was done long ago, but the question is one of economy-the production of cheaper paper than that made from rags. Jacob Christian Scaffers, a German theologian, printed a book in 177 2 on 60 specimens of paper, made from as many substances, such as straw, wood of various kinds-willow, beach, &c.--and a number of grasses. In fact, it has long been known, that paper can be made out of every vegetable material of a fibrous character, but cotton rags have hitherto been furnished so cheap, as to defy competition from any other. This has been the case especially since the discovery of bleaching by chlorine, by which the blackest and dirtiest calico rags, which before that time were used for making wrapping paper, can now be bleached as white as snow.

As this is a question of economy entirely, Mr. Beardslee has informed us that he can make paper from wood as cheap as that made of cotton rags, even if the latter cost nothing. We wish success to the discoverer of every improvement in the manufacture of cheap paper, for it is the grand vehicle for spreading knowledge among men.

The New York Crystal Palace Association. Indignation Meeting of British Exhibitors at London.

The London Times of May 11th, contains a report of a meeting of some of the foreign exhibitors at our late Crystal Palace, to concert measures for the recovery of their property, alledged to be detained by the N. Y. Crystal Palace Association; also to pro pose them. cure compensation for damages, &c. The call for the meeting originated with a Mr. W. G. Rogers, who, on being invited to act as chairman, announced himself as a very severe sufferer. He said he sent a splendid mirror to the New York Exhibition worth \$1700, but after the shipment, could get no tidings of the goods, until at last, one day, being in the London Dock, he saw the case, which had been returned. He soon after ascertained that the glass and moldings of the frame were smashed all to pieces. To aggravate the case still further, a bill of \$75 dock charges was demanded of him by Mr. Major, agent of the Association.

Mr. Arrowsmith said he had sent over a | claimed. His statement about broken glass | The effect was magical; for the rich light its whereabouts. Mr. Moore was anxious to | of particulars." get back his goods, value \$1500. Mr. Jennens said his firm had had \$1000 worth of goods spoiled.

Mr. Loft had been informed by a gentleman in Dublin that he had two valuable carriages there, which he could not get back.

The Chairman remarked as a singular fact that a large quantity of armor from the Tower was there, and he supposed the Queen would have to send a broker over to get it back again. [Laughter.]

October, when he saw broken painted windows lying under a counter to the value of \$2000. He had himself a painted window there which he could not get back.

Several other gentlemen made statements as to the value of contributions which they could not get back, and complaints as to the careless manner in which their property had been treated, and faith broken with them by the New York Association. The bankruptcy raise a few dollars for the purpose, but hav- hand, we are positive that it tends to preof the Association was imputed to the luke- ing latterly become bankrupt through the vent putrefaction, and at the same time dewarm manner in which the New York public wretched and imbecile management of its stroy noxious effluvia. High pressure steam had supported the Exhibition.

Mr. Penny inquired whether the President of the United States had been written to on the subject? He had opened the Exhibition officially, and an application ought to be made to him.

After an animated conversation, in the course of which it was stated that no exhibitor present had received any order from America in consequence of the Exhibition, or sold any article exhibited, the meeting was adjourned for a week, to give time for further inquiry and consideration.

The above statements and complaints, if they were all true, would be sufficient to less irrascible temperament than Mr. Rogers. They would be enough to brand with infamy the names of every manager of the Association who had the least connection with the alleged transactions.

We are happy in having grounds for believing that Mr. Rogers' indignation meeting was somewhat premature.

In reply to these gentlemen, Mr. John H. White, formerly a President and now the ined and answered.

In regard to Chairman Rogers' lookingglass, he says :-- "In consequence of BAD to this country it was found, on opening at the Palace, that the glass was "smashed," and the beautiful carving more or less injured. When the case was taken off the ves-

Rogers' packers. course (he adds) he "declined to pay."sociation ever authorize Mr. Major to im- the Emperor, and to it the latter replied in

cabinet worth \$1200, but had no idea now of is so indefinite that it lacks potency for want | kindled into beauty a thousand different ob-

factorily accounted for. Mr. White says departments are complete, and basking in a that one reason why there were so few sales full flood of light. of foreign articles, was the exhorbitance of

the prices put upon them by the owners. The statement that no foreign exhibitor received an order or sold an article on exhibition, we know is not so, although the sales did not haust their steam into the sewers. We have amount to very much. The assertion that always believed that this was beneficial in the President opened the Exhibition official- destroying miasma and noxious effluvia, but ly is ridiculous. He was a mere guest, in-Mr. Frewen was himself at New York last | vited by the owner, like many others on that occasion, to give zest to the enterprise-a sort of advertisement for the stockholders. keeps their contents at a temperature most

en faith with its foreign exhibitors in refus- same time, by creating an outward pressure, ing to pay the return freight on all goods | is constantly forcing the poisonous gases insent home. It originally agreed to pay to the streets." It then calls upon the Board transportation both ways, and should have done so if the building had to be taken deny that steam thus thrown into the sewers down and a post at a time sold at auction to favors rapid putrefaction. On the other first President and aristocratic Directors, and since by the Barnumization it has gone for disinfecting clothes, feather beds, &c.through—it now leaves all its creditors, foreign and domestic, in the lurch. If Mr. White is to be believed, however, its intentions are good. The Association means to pay its debts, and some time or other to compensate the foreign exhibitors for the return day, and as hot water is superior to cold for freight, with interest. At present, if levy were made, the returns would exhibit nothing but old iron and window glass. Creditors must bide their time. We have more confidence in the management and statements of Receiver White, than in any executive officer previously employed by the stir up the indignation of any gentleman of concern. If anything can be saved from the wreck he probably can do it.

Opening of the Paris Exhibition.

Although it was generally believed, until within two days before the 15th, that the Exhibition would not be opened on that day, owing to the incomplete arrangements, yet it was determined by the Emperor not to disappoint the public again; so on the 13th the Moniteur published the official pro-Receiver of the Crystal Palace Association, gramme. The day of inauguration was not has published a very lucid statement, in propitious; it was cold and damp, with a which each particular grievance is exam- drizzling rain, and this made it very uncomfortablefor spectators, who had been exhorted to wear dress coats. When the doors were opened, at ten o'clock, the spectators PACKING when it was put up for exportation | poured on in a huge stream, each endeavoring to get a good seat, and soon there was exhibited a rich display of jewels, dress, and French beauty. The Diplomatic Corps, the hot boiler. It was feared that the towns of officers of Government, the Senators and Legsel the broken pieces of glass rattled in the islators, were dressed in official costume, ofbox. I have a certificate of these facts from | fering a marked contrast to the plain dress the persons who assisted in removing the of the civilians, especially the Americans. case from the vessel. It was not the fault of About eight thousand persons were present the Association that the glass was smashed when the Emperor and Empress entered, acand the carvings injured, but the fault of Mr. companied by the officers of the household, magnates of the realm, and the ladies of the I may add, Mr. Rogers was notified of the Court. They approached the stage on which damage which his case had sustained imme- a throne was erected, and each took his and diately after the fact was ascertained. Mr. | her proper place in view of the whole audi-Rogers further stated that "he received a ence. The scene was a thrilling one in point bill of £15. 3s. 10d. for dock charges from of display, and rich strains of music from Mr. Major, the shipping broker appointed by hundreds of instruments grandly reverthe New York Association," and which of berated through the lofty arches. There was not much *palavring* made. nor time wasted. Now I assert that no such charges were ever | Prince Jerome, President of the Commisimposed by the Association, nor did the As- sion, at once proceeded to read a speech to

jects unseen before. This was but a foretaste Other items of complaint are also satis- of what may yet be expected when all the

Steam in Sewers,

It is well known that many of the steam engines employed in cellars in our cities exthe New York Times of the 30th ult. condemns the practice. It says, "It is undeniable that steam thus thrown into the sewers The Association has unquestionably brok- | favorable for rapid putrefaction, and at the of Health to examine into the matter. We is employed in some of the London hospitals High pressure steam is a purifying agent, and it destroys animal and vegetable putrefaction at once. Every ten horse power steam engine exhausting into a sewer, sends at least 6250 lbs. of water through it every detergent purposes, every such steam engine in our city must be a sanatory agent.

Eruption of Mount Vesnvlus.

The late news from Europe contains accounts of a new eruption of Mount Vesuvius upon a grand scale,-the greatest that has occurred for centuries. The report of its sublime grandeur had attracted thousands from all parts of Europe to witness the scene, and the road from Naples to the vicinity of the spectacle was continually crowded with spectators going and returning. The discharges of the volcano are represented to have been terrific, and the lava poured over the lips of the crater in huge swelling waves, sweeping downward and onward over vineyards and villages that had flourished for centuries. The lava, like torrents of burning brass moved slowly but unresistingly forward, hissing and sparkling as it met with obstacles in the way, then accumulating and flowing over them, "eating up every green thing." Houses and stone wall fences, furnished no effectual resistance to its course, it flowed down a resistless sea of fire. The sides of the crater resembled those of a red St. Sebastiano, Massa, di Somme, and Pollena, would be destroyed. Cercola has already fallen, and it was thought that a destructive explosion, throwing huge rocks and piles of burning ashes far and near, and scattering death and ruin around, would conclude this grand eruption.

The Street Sweeping Machines.

The company operating these machines in this city, show their efficiency in a most marked degree, by the manner in which they keep their districts clean. Thus far they have operated well, and have given great satisfaction to the inhabitants in the streets on which they are used.

The Minnie Rifle.

The committee of the Association of French Inventions has decided that the Minnie rifle shall in future be called the Delvigne Minnie rifle, M. Delvigne having declared that while he reserved to himself the priority of the invention, M. Minnie introduced improvements tantamount to original inventions.

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now in the Palace, and in good order. This is the first intimation I ever had that he desired to have his cabinet returned.

long since been returned.

Mr. Frewen failed to state how those windows came broken-whether they were bro- | ly pleased the spectators, for the day was ken at the Palace, or by reason of careless packing on the part of the exhibitor, and ate enthusiasm for long-winded speeches. whether the Association had not in all cases The interior of the building appeared somesettled for breakage done by employees at what sombre and dull, owing to its color, the Palace? Any article he has at the Pal- | except once or twice when a few struggling ace awaits his order, and I deny that he was sunbeams burst from the clouds and shed ever refused possession of any article he their rays through the painted windows.

a few words, in which he requested him to "Mr. Arrowsmith's cabinet," he says, "is return his thanks to the Commissioners for their zeal and care, and concluded as follows : "I open with joy the Temple of Peace, which invites all nations to concord." The The Dublin carriages referred to have Exhibition was now officially opened at half past one P. M.-in one short half hour after

the ceremonies were commenced. This greatdisagreeable, and not well calculated to cre-

Packing Snuff in Lead. The Annales d'Hygiene of Paris has published an article pointing out the danger arising from packing snuff in lead, as the damp in the snuff acting on the lead oxydizes it, and forms a soluble salt of a poisonous nature. The tobacco administration of France has acted on this advice, and discontinued the use of the lead envelopet.