five years as the limit; and the fact that no one except the have no commercial value.

here, but simply because they are handy. In some years terminal charge in the world. thirty per cent of the deaths in this city are of children in year. If the life of pigs, or lambs, or colts, or calves, was anything like as precarious, the newspapers would be full, of discussions of causes and of means of prevention. When issued from the Department of State at Washington, under and crew. Lieutenant Berry commanded the Tigress in half the babies die before reaching maturity we talk of reconciling ourselves to the dispensations of a mysterious Providence!

The terrible and needless loss of life among children is not confined to our cities. The mortality is excessive throughout the country. The ignorance of people with regard to the proper care and feeding of children is simply appalling; and the indifference commonly manifested with respect to the spread of infectious diseases among children, especially in rural districts, is not unfrequently murderous. A man living in a healthy country will take no discredit to himself -will rather think himself a proper subject for sympathetic out of six children or eight out of ten. If he were to have George Walker, Honorary Executive Commissioner; George no better "luck" with his colts and calves, his neighbors would probably organize, for the benefit of his stock, a local sioners. All communications in regard to the admission of retained in his old age the enjoyment of his intellectual society for the prevention of cruelty to animals.

Ignorance is criminal when it is associated with an assumpfor example, when a man, who lacks the knowledge essen engineer, and through incompetence brings on an explosion. George Walker, Executive Commissioner of the United In the early part of his life he was the director of the in which some one is killed.

The assumption of parental duties without an effort to among us, is as likely to be fatal as to undertake ignorantly the care of a steam engine; and we trust the time will come when it will be popularly recognized as quite as criminal. tion, which will continue till November 15. That good time for babies would not have been delayed until now if they had been, like pigs, a factor of commerce.

If there are so many children that half of them require to be killed to give opportunity to the rest, the killing ought, at least, to be done with discretion, picking out the least desirable specimens for that fate, as we do with kittens. To able of being patented. lose half, and that at haphazard, is as uneconomical as it is morally intolerable.

CHARGES FOR HANDLING GRAIN IN NEW YORK HARBOR.

The investigation by the Assembly Canal Committee of the method and cost of handling grain for shipment in this city brings out some facts of general interest. The great elevator business is the growth of recent years. In 1860 there were no floating elevators and but two or three warehouse elevators, which charged 10c. a hundred for trimming, their storage business furnishing their profits. In 1861 the warehouse elevators charged one-quarter cent a bushel, the floaters three-eighths cent. The next change was threeeighths cent for the former and one-half cent for the latter; then one half cent and five eighths cent respectively; adequately represented. then five-eighths cent and three-quarters cent. Then the charge was made three-quarters cent for both for the sake of uniformity. In 1875, in consequence of the reduction of canal tolls, the rates were reduced to one-half cent a bushel, where they remain with occasional rebates. Another half cent per bushel is charged for weighing. If the grain is blown and screened for preservation, the charge is onequarter cent additional, but last year only a small quantity of grain was blown. The charge for stowing the grain is from \$7 to \$8 per 1,000 bushels. The grain storage capacity of Brooklyn is 16,500,000, and in New York at the New York Central Elevator 2,500,000. The great elevators at Jersey City add several millions to the storage capacity of this port. The charge for elevating includes ten days' free storage. About 3,000 bushels can be elevated in an hour.

The charges in New York are less than in Chicago, St. Louis, Detroit, Buffalo, Toledo, Baltimore, Boston, and assured that a simple machine for the purpose would find a Titusville, Pennsylvania. Colonel Roberts was a man of Philadelphia. There is no practice of charging shortage on ready sale among the flax growers, and it could probably great enterprise as well as ingenuity, and had much to do our canal boats. Our weighers are accurate, and weigh closer than in any other city. They do not charge a short- fibrous materials. age whether there is shortage or not. Experience shows that there is always a shortage of about half a bushel to disposed to invent one he may find it worth while to comevery1,000. The average shortage at a Brooklyn warehouse municate with our informant, the editor of the Mennonitische Vienna, March 29. Weyprecht and Julius Payer were joint last year was about four bushels to 8,000.

The charge for storage after ten days is a quarter cent per bushel. In Baltimore, Boston, and Philadelphia it is three-eighths cent. There are about nineteen storage elevators in New York and Brooklyn, and about forty floaters. chinery for trades and dairy purposes is to be held in During a large portion of the year, one-half of these could Altona, near Hamburg, North Germany, from August 18 to do the business. The stationary elevators in 1880 elevated October 17, 1881. The object of the exhibition is chiefly about 48,000,000 bushels.

business for thirty years estimated that from eight to twelve chines for trades; II. Work machines and tools for million dollars is invested in storage elevators and about five trades; III. Products of trades manufactured by the mamillions in floating elevators. That is exclusive of the rail-chines and tools of I. and II.; and IV. Machines and impleroad elevators. One half the grain goesthrough the railroad ments for dairies. The awards will be medals of silver and elevators. His stores and elevators are valued at from five bronze and honorable mention. The chairman of the local We are informed that, should it be found necessary in order to six million dollars. He elevated 5,300,000 bushels last committee is H. C. Nothnagel, town deputy of Altona. to keep up with orders, a set of night and day workmen year, about one-third of which was blown. He has a double Forms of application may be had at the offices of the com- will be employed. This company has commenced the erecelevator which can discharge from 6,000 to 8,000 bushels an mittee, Königsstrass 116. Ground and wall rent for extition of extensive buildings, which will be completed. hour.

A witness in the lighterage business testified that the specially designed to revive the now depressed "smaller bereaved parent pays much attention to these unreasonable lighterage charge is one and a quarter cent per bushel for trades" of North Germany, this exhibition may offer some losses shows how unfortunate it is for the babies that they all points in the harbor. Out of this the lighter must pay attractions for American manufacturers of trade tools, imone-half cent for unloading. It is estimated that 8.000 plements, and machinery. We do not pitch upon the infant mortality of New York bushels pay \$100 for lighterage. After paying expenses for illustration because the figures are relatively excessive the lighter has left \$20, less shortage, which is the cheapest

PARIS, 1881.

date of March 31.

questions of international courtesy.

United States Commission to serve as the official channel of search for which she is sent out, nor then except in a secure communication between American exhibitors and the French harbor; nor is she to remain more than one winter away General Commission at Paris.

The commission thus appointed will consist of the Assistcommiseration, when he confesses that he has buried five ant Secretary of State, as Acting Commissioner General; tion of duty requiring knowledge and leads to loss of life; articles, should be addressed (postage paid) to the Acting interesting paper upon the "Trees and Woods of the for example, when a man, who lacks the knowledge essen. U. S. Commissioner-General. Correspondence for the Canaries." Many of his researches related to the advancement tial to the right management of an engine, pretends to be an American Commission in Paris should be addressed to Mr. States. U. S. Consulate-General, Paris, France.

discover the proper care of infancy, now the usual custom ping, and transportation of exhibits, delivering them at the and others, he was engaged in the production of that splen-Palace of the Champs-Elysées between July 1 and August did series of works, the "Natural History of the Canary

> limited charge will be made for motive power. Exhibitors them colored. These books give some idea of the vast will have to defray all expenses of installation and immediamount of careful labor which M. Berthelot and his admirate care of their exhibits. Favorable provision is made for able coadjutor, Webb, expended upon that remarkable task. the protection from piracy of all inventions or designs cap- Our limited space prevents a notice of the many other im-

> The time for receiving applications has been extended to May 15, and to insure seasonable transmission applications Honor, an officer of the French Academy, Member of the should be sent to the Department of State, at Washington, not later than April 20.

> An International Congress of Electricians will be held in connection with the Exhibition, commencing Sept. 15, in useful one. In his adopted home, Teneriffe, he was greatly the Trocadero Palace.

The Congress and the Exhibition cannot fail to draw to tor Paris the representative investigators and inventors in electrical science and art the world over, as well as their most important and instructive inventions and apparatus.

It is to be hoped that the United States, which have contributed so much to the recent progress of the telegraph, the telephone, the perfection and utilization of the electric light, and other practical applications of electricity will be

AN INVENTION WANTED FOR UTILIZING FLAX REFUSE.

The rapid increase of flax raising in the west, particularly in Minnesota, has made the disposition of the residue of the plant, after the separation of the fiber, a matter of considerable and in a country where fuel is scarce it would be of great in the manufacturing centers of North England. benefit to the cultivators of flax if the flax brakings could. by pressure or otherwise, be made into a substitute for firewood. We are informed that the stoves mostly in use among the Minnesota cultivators of flax are made of Dutch tiles. The question is whether the flax refuse can be economically compressed for use in such stoves. The problem would seem to be worth considering by inventors, as we are successful torpedo for oil wells, died after a brief illness, in be profitably adapted also to the utilization of other waste with the development of the Pennsylvania oil region.

If any of our rea Rundschau, Elkhart, Indiana.

Another International Exhibition.

An International Exhibition of power and work ma-Another witness who had been in the storage and elevator the dairy. It will consist of four groups; I. Power mahibits range from two to ten marks a square meter. Though equipped, and in operation within the next ninety days.

The Jeannette Search Expedition.

Lieutenant R. M. Berry has been ordered to command the steamer Mary and Helen on the proposed Arctic expedition their first year, and ten per cent more die in their second THE INTERNATIONAL EXHIBITION OF ELECTRICITY AT in search of the Jeannette. He has been furnished with a list of the naval officers who have volunteered for this ser-An important circular relative to the Exhibition has been vice, and he will have a choice in the selection of the officers search of the missing members of the Polaris crew. He is It will be remembered that the late Congress failed to a native of Kentucky, and is thirty-five years old. Among make any provision for the representation of the United the appliances that will be added to the ship will be an ob-States there, notwithstanding the public interest which servatory balloon, from which it is expected a view of thirty must attach to such an Exhibition and the importance of miles can be had if it reaches the altitude of balloons sent having this country properly represented, to say nothing of up in this climate. Bombs will be used in the progress of the search to give sign of their presence in the Arctic. The Accordingly the President has appointed an Honorary vessel is not to winter in the Arctic except to promote the from home.

Sabino Berthelot.

This eminent naturalist died November 22, 1880, at Santa E. Gouraud and Charles R. Goodwin, Honorary Commis-Cruz de Teneriffe, at the advanced age of 861/2 years. He applications and requests for forms, and generally all corre-faculties, and only a few weeks before his decease had conspondence in relation to the preparation and exhibition of tributed to the Revista de Canarias an extensive, learned, and of the Fortunate Isles, where he lived for about sixty years. celebrated Botanical Garden of Orotava. In 1828, in conjunc-Exhibitors will have to bear all expenses of packing, ship-ition with the celebrated naturalist, Phillip Barker Webb, 1, the latter date being set for the opening of the Exhibi- Islands." Not least among the treasures of the Astor Library, in this ctiy, are the six large quarto volumes, under There will be no charge for space or flooring, and but a the title just named, full of beautiful drawings, many of portant scientific labors in which M. Berthelot was engaged.

He was Consul of France, Member of the Legion of Society of Natural Sciences and Geology, and of all the principal scientific societies of the Canaries and of Europe. He was a clear, accurate, and able writer. His life was a most beloved. His memory will long be cherished as a benefac-

The Earl of Caithness.

James Sinclair, F.R.S., Earl of Caithness, who died suddenly in this city, March 28, was a man of considerable scientific ability and withal an inventor who had reason to be proud of his attainments. His principal invention was the ship's compass which bears his name. The Caithness gravitating compass is one of the steadiest known to navigators, and is widely used. He perfected a steam motor for macadamized roads, acting as his own engine-driver when testing it. He also invented and patented a tape loom by which the weaver was enabled to stop any one of the shuttles without stopping the loom. This invention was pronounced unpractical at first, but after a short trial in a Lancashire factory, it was found to answer the purpose better interest. The bulk of this rough woody matter is very large; than the old device, and has since been universally adopted

Of late years the Earl has traveled largely in this country and Europe, has written somewhat, and delivered many scientific lectures.

Colonel E. A. Roberts.

Colonel E. A. Roberts, the inventor and patentee of the

Carl Weyprecht, the Austrian Arctic explorer, died at commanders of the Austro-Hungarian Expedition in the "Tegetthoff," which discovered Franz Josef Land after months of drifting with an ice floe, in which the Tegetthoff was abandoned in August, 1874.

THE fire which occurred in the works of J. A. Fay & Co., of Cincinnati, on the morning of the 6th ult., proved to be the improvement and development of the smaller trades and less disastrous than at first supposed. The large Corliss engine and boiler, the new four story brick shop, over one hundred and fifty feet long, and portions of another large building were saved. In order to meet the emergency occasioned by the fire additional factory facilities have been secured which give a capacity to work four hundred men.