of locomotive specially adapted to meet these condiworld over as distinctively the American locomotive. of exit in cases of emergency. The merit of the type consists in the simplicity and acis enabled to adjust itself to the unevenness of the track, its large boiler power, and lastly, the large hauling power which it has always shown.

bly adapted to the requirements of foreign railroads, and our locomotives have always secured favorable comment from those companies which have used them side by side with locomotives of European design, and they have never, as far as we know, failed to obtain a secure hold on the trade.

In response to our inquiry we are informed by a leading firm in this country that while for the past two or three years the export trade in the aggregate has not been as large as in the few years preceding, there are signs that it is again on the increase. This falling off was not due so much to any relative decline in this trade as compared with the export trade of the country in general, but is attributed to the general depression which has marked the trade of the world at large. As now receiving inquiries from more foreign countries 10, and the Bremen on June 24. than ever before in the history of the trade.

### THE TRAGEDY AT THE CHARITY BAZAR, PARIS.

have been more shocking than the burning of the Charity Bazar building in Paris, by which nearly one two of these may be filled without endangering the hundred and fifty people, most of them ladies of high safety of the ships. The horse power required to drive by the congress will be first considered by committees, social position, were burned to death in the space of a the twin screws which propel these ships is generated few minutes before the eyes of a multitude of people by two quadruple expansion engines on four cranks, who were powerless to help them.

The Grand Bazar de Charité is held by the chief Schlick patents. charitable institutions of the city, which unite every year for the purpose of selling articles for the relief of unique, in that a large proportion of the space devoted the poor. The Bazar was held under the patronage to passenger accommodations is in a high superstructure it took place was a one-story affair 200 feet wide by 300 feet long, and the interior had been laid out to represent a street in mediæval Paris. The booths were representations of the ancient shops and house fronts. and they were made of linen painted over with turpentine and filled between the surfaces with papier maché. This material was old, having been used in the previous just been repainted. The building itself was of the flimsiest description, and highly inflammable. The walls consisted of ¾ inch boarding, and the roof apparently was covered with tarred felt and was carried upon vertical posts. The wooden floor was a few feet above have been at all familiar to the ill-fated crowd of 1,500 not designed for speed, but to meet the requirements

All things considered, it would be difficult to imagine a more fatal "fire trap" than this, and as the sequel time in crossing the ocean in the shortest possible showed, it was to prove terribly effective. The fire is period. supposed to have been caused by the illuminating lamp of a kinematograph, and it spread with unusual rapidity, a New York lady, who was rescued, describing the flames as traveling along the flimsy roof with a rapidity "just like that which one would see if a sheet ignited." The same eye witness says the ceiling, being in flames, kept constantly dropping in small pieces, and these burning pieces falling on the ladies' hats and shoulders enveloped them in flames. Not only was this so, but the falling pieces of burning ceiling ignited the sides of the bazar, and soon a screaming crowd of all sides of them like great walls of flame.

speedier death.

bition purposes. This structure was undoubtedly ing them to a representative of Reuter's agency: more dangerous, and built with less regard to fire risk, than the average building of the kind; but it is Eskimo races, and their women are better looking, but certain that even in such costly erections as are put up the Tchuktchis are wholly devoid of morality, and will for the international expositions, the dangers of a con- barter a wife for a handful of tobacco. Infidelity is no flagration are exceedingly great. We all remember in crime among them. They number altogether about what a short space of time the cold storage building at 5,000, and along Bering Strait are seven settlements of the Chicago Exposition was swept out of existence, perhaps 300 each. The others are scattered along the and not all the costly steel and stucco work of the seaboard of the Arctic Ocean, stretching away to the other World's Fair buildings saved them from being settlement of Nijni Kolymsk. They acknowledge no wiped out with equal suddenness.

as the Charity Bazar building in Paris to be put up in miles from Oumwaidjik the language was totally a city like New York as long as the building laws were different, and the natives of each settlement are literally interpreted and rigidly enforced; but, un- unable to understand each other. Oumwaidjik itself fortunately, there is always a disposition to leniency is described as one of the most desolate spots in creawhen the question comes up of erecting the large shed tion. There is not a tree or blade of grass for 400 miles structures which are used for skating rinks, bazars or inland, nothing but swamp and rock. The natives 1,378 feet; of the East River Bridge, 488 meters = 1,610 for charitable purposes. The fact that a building is to | died weekly of starvation and scurvy, and often took | feet.

be temporary does not diminish the risk of its daily use, tions—a type with such marked characteristics and and should never be allowed to affect the question of chi ceremony is the "Kamitsk." This is simply the with such all around efficiency that it is known the its being made reasonably fireproof, with ample means

### tessibility of its parts, its great flexibility, by which it THE NEW TWIN SCREW PASSENGER SHIPS OF THE NORTH GERMAN LLOYD COMPANY.

The North German Lloyd has built and put into commission, since 1892, twenty-three large transatlantic Now it can be seen that these qualities are admira- steamships, and during the present season will place in service between New York and Bremen six magnificent new twin screw ships. One of these, the Kaiser Wilhelm der Grosse, the largest steamship in the world, 649 feet long and with a tonnage of 14,000 and a displacement of 20,000 tons, sails on her initial trip to New York, September 14. The sister ship, Kaiser Friedrich, will be placed on the route shortly after. Four of the six new ships enter what is termed "The Twin Screw Passenger Service of the North German Lloyd." These, the Friedrich der Grosse, Barbarossa, Koenigin Luise and Bremen, are each 10,600 tons register, with 7,000 horse power, and have a total length of 550 feet and a breadth of 60 feet.

The Friedrich der Grosse has already made her initial

to the double bottom covering their entire length. Transversely they are divided into thirteen watertight There have been few catastrophes of late years that compartments extending all the way to the upper deck, and it has been satisfactorily demonstrated that the engines being balanced on the principles of the

The architecture of the passenger steamships is quite were ladies of rank. The temporary building in which three stories. This gives the ships a distinguishing appearance from any others now in service, and allows for two spacious promenade decks, one above the other, each extending 256 feet, the full length of the superstructure, with passageways across from one side to the other.

The passenger accommodations on these steamships are very luxurious and complete, the woodwork being side walls and ceilings containing exquisite examples in modern art done in oil by German artists of recognized reputations. There is a large glass cupola or dome crowning the center of the ceiling of the dining saloons, which insures a flood of soft light. These pasthe ground, and there was only one exit that seems to senger steamships are enormous freight carriers and are of those who wish to enjoy the ocean voyage and the superior accommodations rather than to merely save

> The two monster ships of the fleet, the Kaiser Wilhelm der Grosse and Kaiser Friedrich, have been constructed with reference not only to a large passenger carrying capacity, but for very high speed.

It may be reasonably said that the North German of paper were to be saturated with petroleum and then! Lloyd has successfully worked out the evolution of an ocean fleet, and its record for new steamships is one of which it may justly be proud.

# THE RETURN OF MR. DE WINDT.

Mr. Harry de Windt has recently returned to London from the Siberian shores of Bering Strait. In a women was running like so many poor creatures in a short time he will leave England for a lecturing tour burning cage, with fire descending on them and fire on, in the United States. It is said he was brutally treated by the Tchuktchis at Oumwaidjik. In consequence There was the usual crush at the entrance, and when of this the United States government will, it is said, the building was yet partly filled, the burning ceiling send a vessel to Oumwaidjik to punish the chief. The fell bodily in upon the huddled mass and brought them Tchuktchis are nominally Russian subjects; the only vessels ever in the neighborhood are American whalers The tragedy has taught the world another lesson as and the United States revenue cutter. Mr. De Windt to the frightful risk that is run whenever these tempo- had an enforced sojourn of two months among the rary matchbox buildings are put up for bazar or exhi-natives. He gave the following information concern-

They are physically a far finer race than the Alaskan government and pay no taxes. None of them had Of course, it would be impossible for such a building ever even heard of the Czar. At a village not ten

to devouring raw seaweed. The most weird Tchuktputting to death, with their free consent, of aged or useless members of the community. When a Tchuktchi's powers have decreased to an appreciable extent, a family council is held and a day fixed for the victim's departure for another world. Perhaps the most curious feature is the indifference shown by the doomed one, who takes a lively interest in the proceedings, and often assists in the preparations for his own death. The execution is preceded by a feast where seal and walrus meat are greedily devoured and villainous whisky is consumed.

#### THE POSTAL CONGRESS.

The Universal Postal Union of the world holds meetings at intervals of six years. The fifth of these conventions began at Washington, D. C., on May 5. This is the fifth convention which has been held by the Postal Union. It is attended by delegates from more than sixty countries and provinces and it is thought that the three countries which are now out of the pale of the Postal Union may possibly all be admitted to the union before the congress has finished trip to New York. The Koenigin Luise sails on her its labors. So much of the business of the world is a matter of fact American locomotive builders are just | first outward passage May 13, the Barbarossa on June now done through the medium of the mails that the meetings of the union are of extraordinary importance. Each of these ships has four steel decks in addition It is the first meeting of the kind which has ever been held in America, and the rules and regulations which are made will stay good until the year 1903. The congress is held in the old building of the Corcoran Art Gallery, and the proceedings are conducted in the French language. All of the business to be transacted which will be five in number. Among the important amendments to existing regulations governing the union which will probably come up is a proposal to raise the limit of weight on letters which may be transmitted to foreign countries for postage equivalent to five cents. The present weight of half an ounce is considered too low, and the limit may be increased to threeof the leaders of society, and many of the stall holders amidships, 256 feet in length, and practically containing quarters or even one ounce. The increase of weight implies greater expense of transportation, but not for handling and for clerical work. The parcels post. money orders, the compensation due the countries over which mails are carried to regions beyond, and the proposed universal international stamp, are other subjects to be discussed at this gathering of delegates. It is also hoped to arrange for the adjustment of rates charged by the different countries on a simple basis year in the neighboring Palace of Industry, and it had in ivory tint and broken with many panels, and the and technical matters of special interest to officials superintending the work at the Berne office, which acts as a clearing house for the Universal Postal Union.

## AERONAUTICS AT THE TENNESSEE CENTENNIAL EXHIBITION.

The air ship or dirigible balloon has achieved another successful flight, this time in connection with the Centennial Exhibition at Nashville, Tennessee. Prof. N. W. Barnard, director of physical training of the Young Men's Christian Association, Nashville, has been engaged for some time in the construction of an air ship which depends for its buoyancy upon a gas inflated balloon and is driven by a single propeller. The balloon is approximately egg shaped in form, measuring 20 feet in diameter and 46 feet in length, and moves in the direction of its longer axis. The usual basket attachment is replaced by a light framework in which the operator sits and controls the mechanism. This consists of a driving axle and pedals which are geared to a propeller shaft that extends 20 feet in front of the machine and carries a propeller of very light construction. On each side of the body of the ship is arranged a kite-shaped sail about 2 feet wide by 3 feet long; and these are controllable by means of levers placed conveniently to the operator. The ship was started a little before noon and rose to an estimated altitude of about half a mile and moved rapidly to the westward. The descent was made about 12 miles from the Exposition grounds, and Prof. Barnard, who returned the same night to the city, expressed himself as well satisfied with the success of the trial trip.

# THE LONGEST BRIDGES.

The longest bridge in the world is that over the Tay, in Scotland, which is 3,200 meters = 9,696 feet long; and the next longest is also in Great Britain, being that over the Firth of Forth, 2,394 meters = 5,552 feet in length. The following table gives, in meters and in feet, the lengths of the principal bridges in various countries:

	Meters.	Feet.
Tay, Great Britain	. 3,200	9.696
Forth, Great Britain	. 2,394	5,552
Moerdyck, Holland	. 1,470	4,820
Volga, Russia	. 1,438	4,715
Weichsel, Germany	. 1,325	4,346
Thoen, Germany	1,272	4,172
Grandenz (Elbe), Germany	. 1,092	3,580
Brooklyn United States	488	1,601

The greatest single span of the Forth Bridge is 521 meters = 1,725 feet; of the Elbe Bridge, 420 meters =