

TRANS-ATLANTIC AIRSHIP FLIGHT

WELLMAN'S BALLOON OF FLEXIBLE TYPE

Has Two Engines, Each Capable of Propelling Craft Twenty Miles an Hour

The following article on the Wellman trans-Atlantic air voyage appeared in a recent number of the Scientific American:

The start will be made from Atlantic City, and the very shortest distance across is close to 3,000 miles, whereas no airship has as yet made a record of as much as 500 miles of uninterrupted travel, and even less than half that proposed by the Wellman expedition.

The airship is not the same as the one with which the polar expeditions were undertaken. The balloon has been extended to an over-all length of 225 feet, while its diameter is 35 feet, giving a lifting capacity of nearly 12 tons, or to be more exact, 23,650 pounds. The envelope itself weighs over two tons, and is made up of two layers of silk and one layer of cotton gummed together with rubber, so that leakage of hydrogen gas is reduced to a minimum. Unlike the Zeppelin type, the balloon itself is flexible, but the airship is rendered rigid by attachment to a long car made up of steel tubing in the form of a truss of triangular cross section. This car has been entirely rebuilt, and now measures 115 feet in length. The bottom chord of the structure is a steel truss 75 feet long, which is used for storage of gasoline.

The airship is provided with three gasoline engines, two of which are used for power purposes, while the third serves as a donkey engine. The power engines are rated at 80 to 90 horsepower, and are situated near the center of the car.

The engine shafts are disposed at right angles to the car, and each shaft drives a pair of screws through the medium of bevel gearing. Unlike other airships of this type, no stabilizing planes are provided, and there is no sliding weight by which the airship may be directed upward or downward. Instead, the propellers of the after engine are ingeniously constructed so as to be capable of angular motion in a plane parallel with the car, and thus drive it either upward or downward.

This mechanism is made possible by the use of miter gears between the power shaft and the propeller shaft. The propeller shaft journal is carried by a conical support projecting laterally from the car, and this conical support is itself capable of being revolved upon its axis by means of a worm gear operated by a hand wheel. As the propeller shaft is turned through an angle, the gear key is forced to travel on the gear key to the power shaft. The forward propellers are 11 feet 8 inches in diameter and the after pair 10 feet 4 inches.

The donkey engine, which is rated at ten to twelve horse-power, is used for a variety of purposes. One of the most interesting of these is the office of cranking the power engines. The donkey engine shaft is geared in the power engines by means of clutches which are automatically thrown out as soon as the power engines are started.

The donkey engine also is used to drive a blower, by means of which the balloons may be filled with air to keep the balloon inflated. There are four of them forward and two aft, all fed from a common duct. Each blower, however, is provided with its own individual valve, so that the distribution of weight (for air in this case is ballast) can be controlled and the ship be kept on an even keel.

The rudder at the rear of the car consists of three vertical planes. The central plane is broader than the other two, which are set back a few feet so that when the rudder is turned sharply the plane at the inner side of the turn will not close against the car and cut off or screen the centre plane.

The sleeping quarters of the crew will probably be in a lifeboat swung beneath the car. This lifeboat, which is 27 feet long and of six-foot beam, being constructed of layers of heavy canvas and canvas. It is provided with two water-tight compartments fore and aft, and is a self-bailing boat.

The boat will be plentifully stocked with provisions, so that in case of accident to the airship the crew may take it to itself, picked up by a passing vessel. The boat is provided with a jury mast and sail, so that it is necessary to cut the balloon open by a sudden descent, it may be done by means of a rope which passes around the body of the balloon, and by one end carries an anchor-shaped hook.

When this rope is pulled, either of the points of the anchor-shaped knife dig into the envelope, ripping it open. As soon as one seam is cut the strain will be sufficient to part the other seams as well. The boat is suspended on self-releasing hooks, so that by slitting a rope it may be released instantly.

The wireless telegraph apparatus of the expedition will be located in the forward compartment of the lifeboat. The current for this system will be taken from a storage battery charged by a small dynamo driven by the donkey engine.

This same storage battery will serve to energize an electric lighting system for the car and the boat. The radius of action of this system will be about 100 miles. In addition to this there will be telephonic communication between the car and the boat.

In the Arctic expedition the main problem was that of food, as the expedition had to be prepared to make an overland journey in sledges in case of accident to the balloon. In the present expedition the food problem is insignificant because it is proposed to make a short but quick passage of the Atlantic, and to effect this the balloon must be driven at high speed. The engines, therefore, have the most voracious appetite of the expedition. Each

engine is capable of driving the balloon at the rate of twenty miles an hour.

The combined power of the engines will be but twenty-six miles per hour. It will, therefore, be more economical to run one engine at a time, using the other as a reserve in case of accident; or if it should be necessary to avoid and ride out contrary winds, both engines might be used together for a short time, taking a speed of twenty miles an hour. It would require six days for the airship to cross the ocean in a perfect calm, and without any assistance from the wind. It has been thought best to provide for ten days' travel at this rate.

Each engine consumes 1,000 pounds of gasoline per day, which means that 10,000 pounds, or five tons, of gasoline must be carried. About four tons can be stored in the steel tank forming the base of the car. The remaining ton will be carried in what is known as an "equilibrator."

The problem of navigating the airship is one that will doubtless prove quite puzzling. To be sure, the sextant and chronometer can be used in the ordinary way, but the position of the balloon from time to time. However, since the winds are so changeable, it will be necessary to keep a practically constant watch on the motion of the airship with respect to the water.

To determine the direction of travel of the airship it will be necessary to keep in mind the direction of the wind. This will probably be done by means of a log line thrown from the lifeboat. It will not be necessary to determine the course of the vessel with any great degree of accuracy, for it will not be any particular part for its objective. The only aim is to get across the ocean and land anywhere in Europe, or even in Africa.

GREATER YOKOHAMA.

By Combining Suburban Districts Population Would Be Nearly Half a Million.

With the increase of the population of the city of Yokohama, houses in the city and suburbs are gradually increasing so much so that the suburbs and city are now nearly connected. According to a recent report of the city of Yokohama, municipality as well as the local communities of Hodegaya, Okagawa, Koyasu and other suburban districts to the advantage of the city of Yokohama.

It is reported that as the people in the suburban districts will enjoy various privileges such as the increase of the police force, supply of waterworks, hygienic and other arrangements as a result of the combination, though their taxes will be slightly increased. The proposal, when the combination is realized, the population of the city will be increased to about 480,000.

ORPHANAGE DESTROYED.

San Francisco, Cal., Oct. 13.—Four hundred children escaped in their nightclothes from the fire which destroyed the orphanage of Josephine, Cal. The wooden building caught fire from some unknown cause and in five minutes was a mass of flames. The children, who were sleeping in the building, each marshalling their particular charges in the long corridors, and despite the excitement and confusion, marched all through smoke-filled halls, out of the burning building without injury to anyone. The asylum was built in 1889. The loss is estimated at \$150,000.

ROOSEVELT ADDRESSES KNIGHTS OF COLUMBUS

Pays a Tribute to Work of Roman Catholic Mission in Africa

Peoria, Ill., Oct. 12.—President Roosevelt came up from the south into Illinois yesterday, denounced corrupt legislators and commended work the Roman Catholic church is doing. He was the guest of the Knights of Columbus, to whom he made a speech at dinner last night. It was Colonel Roosevelt's first public utterance to Roman Catholics since the Vatican incident last spring. He said that he favored the broadest measure of religious tolerance.

"Perhaps I can give you my own theory in short form by telling you of a correspondence I once had. Of course, in every church there are some good men who are narrow without being good, and one of these good narrow men was a Protestant clergyman. I wrote him a letter of protest about my receiving Monsignor Sattelle at the White House. I wrote him back, saying that I had received the Cardinal just as for instance I had received bodies of German Lutherans and Welsh Methodists, and as I am expected to receive the Archbishop of Canterbury, and I would hold myself to be a poor representative of the American people, an unworthy president, if I failed to treat with good will and friendliness all good men, no matter what their religious faith. Then I added that I could best explain my position by saying that I believed our country would last a very long time, and that if it did, there would be many presidents with whom I would be associated."

"I think that expressed my views about as clearly as I can put them. Last winter I visited various Catholic missions in Africa, and just about Christmas I was at one of them. Bishop Hanlon, on the shores of the great Victoria Nyanza lake, just under the equator. There I met one of our fellow Americans, Mother Mary Paul, who was at the head of the religious sisters of the establishment. She had already been in correspondence with me, and she said that I must not go through Africa without stopping and seeing their mission, because she was the only American missionary in Uganda, right in the heart of the Dark Continent."

"From that time I stop, I was really like being suddenly brought home, for Mother Paul promptly gave me a message contained in a letter she had just received from two New York policemen, whom I had appointed on the force when I was police commissioner."

"Now, the mission to which Mother Paul had been doing a striking and admirable work in Africa, and I promised her I would publicly tell about this before some Catholic body and ask that the Catholics of the United States take an active interest in this Catholic mission in mid-Africa, where such good work is being done by an American nun. Uganda is one of the places where missionary effort is being signally successful. From personal knowledge, I say this, and from personal knowledge I wish to bear hearty testimony to the good work done there by the Catholic missions, and I hope the charitable cities in the United States will gladden the heart of Mother Paul by backing up in substantial fashion the missionary work to which she has given her life."

"There is no other country in the world where there is such really broad religious toleration, such good will among good people of different religious creeds as in America. There is no other country where Catholics and Protestants get on as we do here, each treating the other on the basis of common citizenship and judging him not as to how he worships his Creator, but on his conduct toward his fellow men and on his own worth as a man. This is the only place where we can make us deviate from this standpoint."

"This is the opinion of Dr. Daniel Pheasant, an English Dominican priest, tentatively, Kingston. It is the opening paragraph of a paper read at the International Prison Congress, Washington, a few days ago. The paper contained the following observations made in institutions that have been demonstrated that the American criminal is not a more law-abiding citizen than those born abroad, simply because of physical conditions and responsiveness on the part of the criminal. 'Abroad the criminal type is lower and owing to the influence of race in ancestral lines this class lacks a certain vigor and spirit which make them more hopeless. In prison, in general, where usually a large number of prisoners are crowded together, crimes as the result of drink, the large quantity of water drunk by this class, given either as a medicine or to assuage thirst, generally has the effect of promoting recovery in a large proportion of cases by simply following the most advanced science of the day, that is, by making elimination through hydropathic means the great remedy, and when to this are added occupation, regular diet, and some diversion, training the inmate to a better condition of living, the results have been far more successful than those of any other method. 'Observations go to show that a period of one year would be sufficient for the recovery of a large number of prisoners, and when to this are added occupation, regular diet, and some diversion, training the inmate to a better condition of living, the results have been far more successful than those of any other method. 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