NEW MONORAIL AT THE FAIR.

Los Angeles Times (1886-Current File); Jul 31, 1904; ProQuest Historical Newspapers Los Angeles Times (1881 - 1968) pg. D6

NEW MONORAIL AT THE FAIR.

Latest Development of Rapid Transit is Demonstrated With Miniature Car Which is now Being Operated at the World's Fair.

[SPECIAL CORRESPONDENCE OF THE TIMES.] .

S T. LOUIS. July 26.—That a mono-rail high-speed electric line can be rail high-speed electric line can be operated profitably in connection with, and along the right-of-way of any one of the big trunk lines be-tween Chicaro and St. Louis is the opinion of F. B. Behr, inventor of the rapid transit system about which the scientific world has been talking for years and which is now being devel-oped in the construction of a line be-tween Liverpool and Manchester, in England. England.

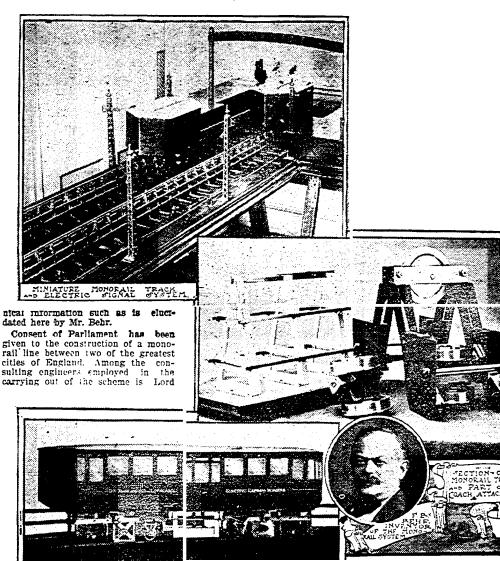
England. Not only is the project feasible for the two greatest Western cities, Mr. Behr says, but the monorall would be just as practical as an adjunct to the New York Central, the Pennsylvania or other Eastern lines, in connecting by a quick means of transportation the other large cities of the country. In fact, Mr. Behr thinks that all of the fast express traffic of America can be handled by the one-rail route, and that a separation of the speeds se-cured in this way will result in a bet-ter and more profitable transportation ter and more profitable transportation rice. ser

With a model of the monorail car With a model of the monorail car in operation in the Palace of Electric-ity at the World's Fair, the inventor is demonstrating to American railway magnates the advantages claimed for ...s device both as to speed and safety. The miniature is a subject of much interest and is daily inspected by prominent persons in search of tech-

mand for a greater speed does justify the additional outlay. mana for a greater speed does not justify the additional outlay. For this reason the speed of the Liverpool-Manchester line was Limited to 110 miles an hour. Satisfactory profit and absolute safety are assured under this arrangement. A running speed of 110 miles an hour is as practical as is a speed of ten miles an hour on the aver-age trolley line." not age trolley line."

In the model displayed at the World's Fair is to be seen in minia-ture the very system soon to be in operation in England.

A new and valuable electric A new and valuable electric sys-tem of signaling, largely automatic, is to be employed. Each day, before the first car is started, the track is cleared, all semaphores are down and all indicators show an open line. As the first car leaves the terminus and passes the first signal, the semaphore hoists the danger signal and the indi-cator in the signal cabin shows the line to be blocked. The same opera-tion is repeated as the car passes the second signal. When the car passes the third signal, the same operation is third signal, when the car passes the third signal, the same operation is again repeated, and in addition it re-establishes the electrical circuit con-trolling the first signal, causing its semaphore to be lowered and the indi-cator in the signal cabin to shore a cator in the signal cabin to show a calcar line. A second car can now leave the terminus, but cannot proceed further than signal No. 2 until



AN HOUR MONORALL OF 110 H ΞĘ.s

Relvin, one of the most eminent men of his profession in the world. On this line it is proposed to develop a speed of 110 miles an hour, and the

this line it is proposed to develop a speed of 110 miles an hour, and the best-known engineers of Europe, after inspecting Mr. Behr's plans, have given it as their opinion that such a speed would be not only safe but highly profitable. Cars are run singly, instead of in trains, over the monorail, and there is a resultant saving of energy be-cause of the even and regular con-sumption of power. The danger of accidents is lessened by an absence of couplings, and a more satisfactory service is rendered because of the frequency of cars. The cost of con-struction is less than that o. the average steam railroad; and where operated in connection with a trunk line, the cost of building is greatly lessened by the saving in the matter of right of way. The monorail can be conveniently operated inside the fraces of the average steam line, using the same stations and terminals. "All of the existing lines of railway are suffering from a concection of traf-

"All of the existing lines of raily are suffering from a congestion of trafare suffering from a congestion of traf-fic caused by what is known as a mixture of speeds." says Mr. Behr, the originator of the monorail system. "The cost of operating mail and ex-press is far in excess of the revenue from them, and the loss is a tax on the freight traffic, which is delayed and harassed by the fast trains. "There is a bit profit in the express

"There is a big profit in the express business when operated independent-ly, and with the monorail a much bet-ter service and faster speed are se-cured than is possible with the steam ling. When the two-rail system is freed of the demoralizing mixture of speeds, freight congestion becomes relieved and there are to be secured LENGTH and there are to be secured larger profits, even on lower tariffs, than now obtain. There need then be no losses in the operation of any branch of transportation, and the serv-ice will more nearly approach perfection

"Elaborate experiments have proved that, with the present facilities for the manufacture of sized and producthe manuacture of steel and produc-tion of power, a profitable speed may be procured at 110 miles an hour with the monorail system. The cost of electricity required to produce speed beyond that is excessive, and the de-

the first car has passed the fourth sig-nal post. There is always one com-The arrangement is salways one com-plete section blocked behind each car. The arrangement is such that if the attendants should disregard the sig-nals, the car would be safely stopped by the automatic working of the ap-pliances. pliances

pliances. According to the evidence of ex-pert engineers examined before Par-liament, the working expenses of the railway. including the cost of main-tenance, renewals, and general admin-istrion, will be 15 cents a car mile. If every car carried an average of twenty passengers out of the possible thirty-eight trips, at the same fares as are now charged by the railway com-panies, the net profit would, it is said, admit of the payment of dividends of 5 per cent. on the capital of the company as sanc-tioned by Parliament, viz., \$12,800,-040 000

It was in 1886 that Mr. Behr structed his first monorail behind Vic toria street in Westminster. In 1887-8 be constructed the monorall between Listowel and Ballybunion, Ireland and in 1897 an experimental monorall was constructed under his direction at Brussels and tested at high speeds. On the latter line, with a carriage weighing about seventy tons, which was much in excess of the intention and estimate. a speed on curves of over 500 meters' radius of eighty-three miles an hour, and a speed of seventy miles an hour on an ascent of one in ninety, were attained. The model of the monoral car is was constructed under his direction

The model of the monorall car is operated every half hour in the Pal-ace of Electricity at the World's Fair, and for a month or six weeks its in-ventor will be at St. Louis to point out its advantages and give reasons why it should be introduced in this country. country.

Commenting on the recent Woman's Congress in Berlin, an Austrian jour-nalist expresses his satisfaction that the questions of the ballot for wom-en teetotalism, and world's peace were kept in the background, and prominence given to the problems of prominence given to the problems education, charity, marital rigi of ecucation, charity, marital rights, servants, and, above all, the wages women workers. of

Reproduced with permission of the copyright owner. Further reproduction prohibited without permission.