

A MARVELOUS FIVE-YEAR OLD

The Growth of Electric Traction Throughout the World.

REVIEW OF THE EARLY EXPERIMENTS

All Other Systems Overshadowed by the Trolley - The Storage Battery a Future Possibility - Elements of Danger - General Equipment.

Electric traction is not as new as some people suppose. In 1789, William W....

From that time up to 1874 there were numerous experiments in this direction, but no practical applications.

In 1851-52 Prof. George G. Page, using primary batteries, made an electric locomotive, which ran on the Baltimore & Ohio road, and crossed over a trestle.

In 1885 Lee Duft operated a full-sized passenger car over the Mt. McGregor road, and, at the same time, Mr. Field's electric locomotive was exhibited at Chicago.

At the beginning of 1888, there were thirteen roads in operation, about forty-eight miles of track, and ninety-five cars were in use on these roads.

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With regard to the storage battery system, on account of the great weight of the storage batteries themselves, necessitating practically a full-loaded car before any passenger use, the amount of handling that is necessary in taking out discharged batteries and replacing them by newly charged batteries at the end of every trip or two, that system has received very little practical development.

At the present time, the current is produced at a central station dynamo, and then fed to the cars through line wires-leaving out of consideration, for the moment, the slot system and the system where the current is fed along the tracks, and then brought only the overhead system-there have been two ways of working that plan. One is with a wire running from the dynamo on poles and stretched over the road with a return wire coming back alongside of it.

from time to time that the overhead system is dangerous. It is more or less exposed. At first, when the overhead systems were introduced, a current pressure of probably 1,000 volts was used, and the companies have almost universally adopted a current pressure of 550 volts. Five hundred volts is a killing horse, but the double is to be a killing man.

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This plan proves successful, it will entirely remove every element of danger from the street railway. The current is not traveling in the sections of track when the car is immediately over the section, when the car leaves the section the current ceases to flow in that particular section, and flows in the next succeeding one, so that, except in the first case, there is no direct contact with electricity in the road.

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noted directly with engines of the same size. The tendency is to larger units and slower speed. In the Sprague railway, in Holland, a trolley, as already stated, was the first successful electrical railway, the motors revolved at a high rate of speed, and there were two sets of gear wheels between the armature and car axle.

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WAITING ON MR. CLEVELAND

Future of the Money-Market Depends on the Administration's Policy.

SILVER STILL A DISTURBING INFLUENCE

Some Significance-From the President Now of His Probable Course Would Do Much to Restore Tranquillity and Renew a Secure Feeling.

New York, March 19.-In his weekly review of Wall Street Henry Clews, the great banker and financial writer, says: "Wall street still remains principally dependent upon the derangement of the treasury finances, the uncertainty as to what policy the government will follow, and the stringency in the money market.

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enormous total of \$10,305,000, and whatever of this amount has remained in this city has been hoarded for the time the money market's needs.

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the end the supply was practically exhausted. A few small hands held on at generally lower prices. As has been the case with the offerings come under this head and with good general demand it did not fail to be reflected in the market.

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\$3,000.25; cows and heifers, \$1,050-1,350; steers, \$2.00-2.25; calves, \$2.00-2.25; pigs, \$2.00-2.25; sheep, \$2.00-2.25; lambs, \$2.00-2.25.

St. Louis Live Stock Market. St. Louis, Mo., March 18.-CATTLE-Receipts, 600 head, 1,100 head market.

Cotton Market. New York, March 18.-Cotton futures opened steady, unchanged, and 1/16 higher.

Philadelphia Grain Market. Philadelphia, Pa., March 18.-WHEAT-Options on March 18, 1903, closed 82 1/2.

Chicago Live Stock Market. Chicago, Ill., March 18.-Special Telegram to The Bee.-There was a nominally unchanged market for cattle.

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The statements that have been made

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DO YOU COUGH? BOON DEWAY KEMPS BALSAM

Every Man whose watch has been rung out of the bow (ring), by a pickpocket, Every Man whose watch has been damaged by dropping out of the bow, Every Man of sense who merely compares the old pull-out bow and the new

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BEESBEE & RAYNAN. Omaha Upholstering, 1214 Broadway

BRANCH & CO., JAS. A. CLARK & CO.