

Recent Events in the Field of Electricity

New Electric Locomotive. The first of twenty-five electric locomotives built by the Westinghouse company at Pittsburg for the New York, New Haven & Hartford railroad, has given satisfactory results in the trial tests.

weight. The cab is built up of sheet steel on a framework of Z bars. The apparatus inside the cab is carried on a framework of structural steel which is built into the cab and firmly anchored to floor and ceiling.

is owned by a company of Cleveland, O., and at present is being used only by the Mexican Central and the Big Four railroads.

The telegraph is a device for providing an extra telegraph circuit in addition to the regular one. The instrument produces and responds to minute alternating currents and are not affected by currents of the regular telegraph circuit.

The alternating currents, on the other hand, are so rapid that they produce no effect upon the ordinary telegraph instruments. Thus it is possible to send two messages at the same time over one wire both in the same direction or in opposite.

This gives the equivalent of an additional wire without the investment in wire and fixtures, as well as the cost of building a new line. The currents are developed from batteries much smaller than those used in the regular service.

At present the possibilities of the invention have not been fully determined. The messages can be sent a distance of from 200 to 300 miles under ordinary conditions.

The success of the line installed by the Central it is believed that the invention is one of the most promising introduced in the telegraph departments for a long time.

The locomotive is equipped with device for collecting both alternating and direct current. For the latter there are eight collecting shoes, four on each side of the locomotive, arranged in pairs of two each.

For collecting alternating current the locomotive is provided with two pantograph high tension collectors. Each trolley has a capacity to carry the total line current under average conditions, but two are provided to insure reserve capacity.

The mechanical construction of the locomotive presents many novel and interesting features which deserve special consideration. The running gear consists of two trucks each mounted on a pair of two-inch driving wheels.

Telephone Rates in Indianapolis. The Indianapolis Telephone company claims to be doing business at a loss and has petitioned the city for a new franchise to run a forty-year system controlled with the right to increase rates.

The company wants to be allowed to charge \$4 a year, instead of \$3, for business telephones, and \$3 a year, instead of \$2, for house telephones. It further asks that it be allowed to charge \$1 a year for each telephone.

Finally, the company asks an option to renew the contract. The company urges that it can not live and render proper service under present conditions; that the vastly greater business it can do is expected, and the increasing rental of cost on that account make the present rates inadequate.

Same Wire for Two Instruments. The Mexican Central Railroad company has installed on its lines the telegraph, an invention which makes it possible to use the same telegraph wire for two instruments.

John? "No, but you know Phil would have sent a dispatch if anything had happened to John."

John was another son, a private in Sheridan's army in the valley.

Fixed up by the Lawyer. Not many persons are aware how greatly indebted James Hassen Hyde is to one of his lawyers for the good impression which he made before the Armstrong insurance committee.

Senator Tillman of South Carolina has gained a reputation as a race horse tipster and his "one best bet" went through at Benning. The senator is unconscious of having picked the winner of the third race.

What Father Thought. A New York teacher of instrumental music was one day telling the father of a pupil, a lad of 10 years, of the progress made by the boy in his studies.

Gossip and Stories About People of Note

Story of Sheridan's Parents

ONE of the sweetest and most pathetic war stories about the Sheridans, father and mother of General Phil Sheridan, is related by Youth's Companion.

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Anecdotes About the King of Circus Men

THE death in New York last week of James A. Bailey, partner and successor of the only Barnum in the circus business, called forth many interesting incidents of a man whose name rivaled that of Barnum as a "household word."

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"No such thing," was the reply; "they never saw anything like it in Australia, and we can make money."

Cooper thought it over and finally consented. Bailey superintended the trip, and cleared more than \$1,000,000 for Cooper and himself.

Buying Jumbo. One day Bailey selected Joseph Lee Warner, a former mayor of Lansing, to go abroad and see what sort of attraction he could find.

"What was the biggest thing you saw over on the other side?" asked Bailey.

"Well," answered Warner after long thought, "I think the greatest thing I saw was an elephant in the London Zoo."

Bought a Whole Circus. Upon the death of Barnum in 1861 Bailey purchased all the rights to the circus.

Banished the Tiger. Twenty years ago, in the days of the wagon show, the feature of the parade was a "murderous, mutilating, man-eating" tiger, which the "dauntless, daring, devil-may-care" trainer held by a chain on the top of the cage.

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Wireless Tests. Tests of the wireless telegraph systems are to be made by the Navy department to determine, if possible, the cause of the many failures to receive and to send messages at sunrise and sunset.

Opportunities Out West. "One of the best known and most prosperous men in Wyoming is a son of Erin by the name of Patrick Sullivan," said E. J. Fenney of Cheyenne to the Washington Post man.

After every speech he delivers Bourke Cockran is a sore man physically. Any one who has ever seen him in oratorical action knows why he is sore.

Barberie Cockran in Action. After every speech he delivers Bourke Cockran is a sore man physically.

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Bearded the Tiger. Twenty years ago, in the days of the wagon show, the feature of the parade was a "murderous, mutilating, man-eating" tiger, which the "dauntless, daring, devil-may-care" trainer held by a chain on the top of the cage.

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