

Democratic Watchman

Bellefonte, Pa., Nov. 13, 1891.

100 Miles Per Hour.

Wisard Edison Says He Can Run Railroad Trains at That Speed.

Thomas A. Edison, the electrical wizard, has just completed two inventions before the wonderful and far reaching results of which all of his other remarkable discoveries are comparatively insignificant.

One is the practical application of electricity to great railroad lines, by which speed far beyond anything achieved by steam may be attained, and the other the application of electricity to the propulsion of street cars, without the use of the dangerous, unsightly and inconvenient overhead construction.

For two years Mr. Edison has been engaged on experiments in this direction. He has met with almost insuperable difficulties, but he has stuck to his work with that dogged pertinacity for which he is famous, and at last he has been successful.

The general principle of the street car invention is that the electric current passed down through one line of rails, is picked up by the car, passes through the motor beneath it and goes out on the other side and returns through the other line of rails to the central station.

At the first thought the bare idea of this is paradoxical. The question will naturally occur why the electric current does not dissipate itself in the ground. To this no positive reason can be assigned except the bare statement that it does not.

In general terms the effect is accomplished by having the current one of low voltage or pressure. It is a well settled principle of electrical research that the higher the voltage the greater must be the insulation, and that the lower the voltage can be brought through the less need of insulation. Mr. Edison's experiments have all been in this direction—that is to say, in the endeavor to construct a motor sufficiently powerful to do the work in which the voltage was reduced to so low a point that the natural tendency of the electric current to fly off to the ground and be dissipated would be overcome, and the passage through the motor to the opposite rail would be easier for the current than to pass through the ground to the central station.

The plan of having a central rail for the return current was experimented on for a long time, but when the motor had been perfected so that it would work efficiently Mr. Edison found that he could dispense with the central rail and return the current directly to the station through the opposite rail.

ON THE EXPERIMENTAL TRACK.

The experiments were conducted at the great laboratory in West Orange. Here an experimental track, nearly a quarter of a mile long, was constructed through the laboratory yard down to the yard of the Edison Phonograph works. In its length it presented all the various kinds of difficulties that actual use would encounter. A part of it was laid on a very heavy grade of nearly three hundred feet to the mile, there are several sharp curves in the road, and a portion of it runs through a sunken spot where the track could be flooded with water or covered with mud. In this way all the varying conditions of actual use were provided.

The experiments have now been fully completed and the invention passes out of the first experimental stage into the second stage, adaptation to practical work. The experiments have been made by Mr. Edison for the Edison General Electric company, and until Mr. Edison has turned the invention over to that company for actual work the minute details of the invention are of necessity withheld from the public. Enough, however, has been said to show the character of the invention. The voltage of the current employed will be, as has been said, very low, not 100, while the average voltage of the overhead trolley system is in excess of 500. From this it will be seen how great a revolution the new invention will effect in the whole matter of electric traction. Several prominent horse railroad systems have offered their lines to the Edison General Electric company for the introduction of the invention, and it is probable that a selection will be made in the near future and arrangements made to put the first practical experimental line in operation.

The most remarkable feature of the invention is in the "pick ups," that take the current from one line of rails. A novel and ingenious mechanism has been so arranged that it will work with perfect certainty and effect through six inches of mud or slush or water.

NEW SPEED RECORDS PROMISED.

Mr. Edison's other great discovery is to obviate the difficulty met in the attainment of high speed on the ordinary steam railway, which is the interference of the steam into and from the cylinders is so rapid in its alternation that beyond a certain limit it is impossible to work, and this is an inherent defect in all steam propulsion because of the necessity of the conversion of reciprocating motion into rotary motion. In the new electric motor this difficulty diminishes and the limit of speed is only that of the endurance of the machinery and the strength of the tracks.

With this invention of Mr. Edison's a speed of 100 miles or more an hour will be more easily attainable than the ordinary speed of fifty to sixty miles an hour. This is also in the hands of the Edison General Electric company, and negotiations are now in progress for the application of the system to one of the long lines of railway.

What a Pound of Coal Will Do.

A curious and interesting calculation has been made by Prof. Rogers of Washington, D. C., on the dynamics of coal. According to the professor, a single pound of good steam coal has within it dynamic power equivalent to the work of one man for one day. Three tons of the same coal represents a man's labor for a period of twenty years, and one square mile of a seam of coal, having a depth of four feet only, represents as much work as 1,000,000 men can perform in twenty years.

Interesting Odds and Ends.

Scrap Picked Up Here and There Which Contains Worlds of Information for All.

Rosewood costs about \$750 per 1000 board measure.

There are 50,842,434 acres of vacant land in Wyoming.

In new silver dollars 755,975 were coined last week.

The Pacific coast has never had a case of sunstroke nor mad dog.

The Chinese are not permitted to own guns or possess gunpowder.

The postal card factory at Skelton, Conn., turns out 2,500,000 cards a day.

The Digger Indians of California prefer insects to any other kind of animal food.

More gold has been obtained from Spanish America than any other part of the world.

Lopez island off the Washington coast, is a rendezvous for opium and Chinese smugglers.

It has been calculated that a bee must suck 218,750 flowers for every ounce of honey gathered.

Paris requires every vehicle traversing its streets at night, if only a wheelbarrow, to carry a lighted lamp.

A rich amber deposit, it is reported, has been discovered in Ontario, the estimated value of which is \$7,000,000.

By the use of the camera, with powerful telescopes, a new and very large crater has been shown upon the moon's surface.

In Venezuela fireworks are never exploded at night. Sky-rockets and roman candles are sent skyward in broad daylight.

Two hundred persons in St. Paul are said to have been vaccinated by mistake of a physician with mucilage instead of vaccine virus.

An alloy of gold and aluminum has recently been made. Its color is a most beautiful purple, and it will be valuable in making up jewelry.

The purchase of 8,000 Texas cattle in seventeen train loads cost Dave Rankin the cattle king of Turkio, Mo. \$222,000, beside the freight expense of \$30,000.

An artesian well 3,095 feet in depth has been sunk at Ashland, Wis., at a cost of \$14,000. After the first 175 feet it passes through brown sandstone.

A Black Hills miner recently discovered in a vein of quartz a single pocket from which he is said to have taken out over \$7,000 worth of gold in two days.

The average French family embraces three members and the average Irish family five. In England the average number of members of a family is four.

Besides the large planets which revolve about the sun, over 250 others have been discovered and catalogued, and science is daily adding to this list.

It is said that during the attempt to cut a canal through the Isthmus of Panama two hundred thousand ounces of quinine were used annually in combating malarial fever.

A minister in San Diego the other day startled his audience by saying: "I have forgotten my notes and shall have to trust to Providence, but this evening I will come better prepared."

The trip to Alaska is made almost entirely on inland waters. The entire coast of British Columbia is lined with islands and between these and the mainland is a navigable channel.

What is said to be the largest sheet or pane of glass in the world is set in front of a building on Vine street, Cincinnati. It has been made in Marseilles, France, and measures 186x104 inches.

The lake which has the highest elevation above the level of the sea, is 10,252 feet above the level of the sea. In some places it is over 300 feet deep.

Dr. Hinckle, of Americus, Ga., has a piece of chinaware seven hundred and ninety-one years old. The date, 1100 is plainly stamped on the bottom, and its only flaw is a broken handle.

Really gilt-edged tea keeps going up. A parcel of "golden tips" grown on the Mahaketa estate Ceylon, has been sold in London for one hundred and seventy-five dollars a pound.

One of the three grate factories in Marlborough, N. Y., made 200,000 gift crates this year, in addition to the large number intended to be returned to the shippers of the fruit crop of the Hudson valley.

What is said to be the biggest quartz-mill in the world is in far-off Alaska. It consists of 240 stamps, 90 concentrators, 13 ore-crushers, and requires 500-horse power. The plant is at Treadwell.

The London *Lancet* says the idea that abundant hair is a sign of strength, bodily or mental, is false. It says that despite the Samson precedent, the Chinese are mostly bald, yet they form the most enduring of races.

There is a cactus tree in the Yuma desert whose fiber is suitable for making paper. It can be had by the million tons for the hauling, but the lack of water has prevented the establishment of paper mills in this vicinity.

Mr. Gladstone is the owner of the largest pencil in the world. It is the gift of a pencil-maker at Keswick, and is thirty-nine inches in length. In place of the customary rubber cap it has a gold cap. Its distinguished owner uses it for a walking-stick.

One of the longest chutes in the world is located at a logging-camp at Clifton, Ore. It is nearly three-quarters of a mile long and cost \$60,000. The bottom is shod with railroad iron, and it takes a log twenty seconds to make the distance to the water, which at times will be thrown to a height of 200 feet.

The largest specimen of leaf or fern gold ever seen was found near Walla Walla, Wash. It is valued at \$300 for the gold in it alone, but to-day five times that amount would not purchase it. The delicate tracery of the fern is as fresh, beautiful and crystalline in appearance as ever nature turned out of her laboratory, and it is fully a foot square.

Johany Reb Welcoming the Yanks.

It is as amusing as it is interesting to see how hard each one at the Great Southern Exposition in Raleigh, N. C., is trying to out do others in showing favors and courtesies to the large number of Union veterans of the late war who are in attendance. Thus far everything has been very successful, and everybody is well pleased. The Union soldiers have been especially invited, and they are attending in large numbers. The Southern people are doing everything in their power to make them feel welcome. Many of the old soldiers get together in groups in the large halls of the Exposition buildings and go over war times. It is certainly very pleasant to see what is a guarantee to all that the war is over, and that there exists no feeling of enmity against the people of the North on the part of the Southern people.

Many Northern gentlemen and ladies are visiting the Exposition, but not as many as ought to. One month only remains in which to see the most interesting sight ever presented to our people. Not only the exhibit of curious and interesting Southern products, but to witness the friendship that exists between the people of this Union of ours, is worth going to see. The rates are very low from New York, Baltimore and Washington. Tickets can be had at the Old Dominion Steamship office, at 229 Broadway of H. P. Clark; at Baltimore, at Bay Line Steamship office; at Washington, D. C., at Atlantic Coast Line office, or at the Richmond & Danville Railroad office.

Insurance.

J. C. WEAVER, GENERAL INSURANCE
Agent, Bellefonte, Pa. Policies written Standard Cash Companies at lowest rates. Indemnity against Fire, Lightning, Tornadoes, Cyclones, and wind storm. Office between Reynolds' Bank and Garman's Hotel. 34 1/2 1y

GEO. L. POTTER & CO.,
GENERAL INSURANCE AGENTS,
Represent the best companies, and write policies in Mutual and Stock Companies at reasonable rates. Office in First's building, opp. the Court House. 34 1/2 1y

RELIABLE INSURANCE!
—FIRE AND ACCIDENT.—

FIRE ASSOCIATION OF PHILA. PA.,
NATIONAL OF HARTFORD, CONN.,
CONTINENTAL OF NEW YORK,
And other leading strong companies. Travelers' Accidents of Hartford, Conn.

—THE OLDEST AND BEST.—

All business promptly and carefully attended to. Office, Conrad House, Bellefonte, Pa. 36 3/8 6m CHAS. SMITH, Agt.

WHY WE REPRESENT
THE NORTH WESTERN.
MUTUAL LIFE INSURANCE CO.

—IT IS A STRONG COMPANY.

Total assets.....	\$12,335,912.96
Total liabilities.....	35,821,587.98
Net surplus 4 per ct.....	\$6,532,324.98

—IT IS A PROSPEROUS COMPANY.

Ins. in force Jan. 1, '91.....	\$28,988,807.00
1890, per \$1,000 insured.....	36,052,844.00
Increase in surplus in 1890.....	5,237,642.55
Increase in assets in 1890.....	801,377.55
Total income in 1890.....	11,195,756.05
Increase over 1889.....	1,739,819.05

—IT IS A CAREFUL COMPANY.

Death loss incurred during.....	\$5.00
1890, next lowest Co.....	11.40
Average of the 9 largest.....	14.90
competing companies.....	2,122,200.25
Death loss at \$100 per \$1,000.....	1,267,599.25
Amount saved.....	1,167,209.25
Assets in first mortgage bonds.....	3 per ct
Ditto, 9 largest competing co's.....	35 "
Assets in railroad and other.....	None
floating securities.....	32 per ct
Ditto in 9 largest competing.....	32 per ct
co's.....	
The nine leading competing companies.....	above referred to are
Mutual Life N. Y.....	
New York Life, N. Y.....	
Conn. Mut. Life.....	
Mutual Benefit.....	
New England Mut. Life.....	
Mass. Mut. Life.....	
Penn. Mut. Life.....	
Etna.....	

—IT IS A WELL MANAGED COMPANY

Rate of interest earned in '90.....	5.92
Average rate of 9 leading com.....	5.15
petitors.....	\$2,196,503
Interest income had rate been.....	5.15 per ct.....
1,610,558	
Interest gained.....	285,545

—IT PAYS THE LARGEST DIVIDENDS.

The **NORTHWESTERN** is the only company which, in recent years, has published her dividends. In 1885 and in 1887 the Company published lists of nearly 300 policies, embracing every kind issued, and challenged all companies to produce policies, alike as to age, date and kind, showing like results. No reference or reply to this challenge has ever been made by any office or agent of any company, so far as known.

—THE COMPANY'S INTEREST RECEIPTS EXCEED HER DEATH CLAIMS.

Interest receipts in 1890.....	\$2,196,502
Death claims in 1890.....	2,122,200

—IT IS PURELY AMERICAN.—

By its charter it cannot insure in any foreign country nor in Gulf States. Its wise and conservative management in this, as well as in other respects is heartily approved of by the practical business men of this country.

Rates, plans and further information furnished on request.

W. C. HEINLE,
District Agent,
35 3/4 1y

Saddlery.

SCHOFIELD'S NEW
HARNESS HOUSE.

We extend a most cordial invitation to our patrons and the public, in general, to witness one of the

GRANDEST DISPLAYS OF
Light and Heavy Harness

ever put on the Bellefonte market, which will be made in the large room, formerly occupied by Harper Bros., on Spring street. It has been added to my factory and will be used exclusively for the sale of harness, being the first exclusive salesroom ever used in this town, as heretofore the custom has been to sell goods in the room in which they were made. This elegant room has been refitted and furnished with glass cases in which the harness can be nicely displayed and still kept away from heat and dust, and in every way made as comfortable to my factory and will be used exclusively for the sale of harness, being the first exclusive salesroom ever used in this town, as heretofore the custom has been to sell goods in the room in which they were made. 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