

EDISON'S LATEST TRIUMPH

BATTERY TO REVOLUTIONIZE PORTABLE POWER METHODS.

It is Almost Indestructible and Weighs Only One-Third as Much as Those Now in Use.

The announcement that Thomas A. Edison has invented a storage battery of great economic possibilities has been widely heralded as another triumph of the wonderful constructive genius, but because we are so used to his perennial power for wonder-working, the true significance of the event is apt to be underestimated.

Since 1859, when he first discovered the lead cell, there has never been a moment when some experimentalist has not been working to achieve what Edison has just achieved—the storage battery that will power what might be transported safely and used again at any time and place, just like any other form of merchandise.

The fact must be easily apparent to everybody that the ability to carry around in the palm of one's hand the power that has hitherto been confined to stationary work, and in the next place to speak of a highly skilled engineer, would be almost an omnipotent possession.

It is an axiom with Edison that if an invention shows one or more defects the underlying principle is not to be abandoned, but to determine upon in the first place all of the details of the mechanism will become evolved naturally.

In view of his axiom, therefore, it could have been assumed by any one who knew him that his new battery would differ radically in principle from all that had been used before, that it would differ even from the hundreds he had himself invented and discarded.

Just what that means, said one of his men to the writer in the laboratory yesterday, "may not strike the ordinary mind. In the first place, Mr. Edison set out to discover what was the matter with the old lead cell, and after a number of experiments he made up his mind that the principle was not to be abandoned, but to determine upon in the first place all of the details of the mechanism will become evolved naturally."

lead batteries, the workman overcharged it. It remained intact. He discharged it many times faster than the normal rate. Still no harm. He allowed the solution to become low. He subjected it to quick and violent changes of temperature. In short, he used against it every mechanical argument he could think of. After months had passed the battery, like the photograph cylinder, was in good "voice" as ever.

And what a result this really is can scarcely be realized. The lead battery, such as is now used in automobiles and street-cars, varies in weight from 124 to 186 pounds per horse-power, and, generally speaking, would be capable of raising its own weight two to three miles. The Edison battery weighs 53 pounds per horse-power, and would be capable, under circumstances similar to those imposed on the lead battery, of raising its own weight through a vertical distance of seven miles.

Of course, cells may be made of any thickness, according to the number of plates put in each, but those to be used for automobiles, which is the kind made so far by Edison, appear externally to be about the size of those flat tin boxes into which breakers of stock certificates, and which can be slipped into the outside coat pocket. Nevertheless, this flat box is made of thin sheet steel. The plates that are contained in the box are the essential elements of the battery. They are also of steel, and when first made resemble small window frames in which oblong slits have been cut to receive the plates. Into each of these slits a perforated window glass, a little flat perforated steel box, which contain the active material in which the electricity is stored.

The boxes in the positive plate contain a finely divided compound of iron mixed with thin flakes of graphite. The boxes in the negative plate contain a finely divided compound of nickel mixed also with graphite. A little flat perforated steel box, which contain the active material in which the electricity is stored.

SCHEMERS GET AROUND IT

LOCAL FOLK HELP THEM TO GET MAIL CONTRACTS.

Thus the Rule to Bar Out Foreign Bidders is Defeated—Accommodating People May Get Hurt.

WASHINGTON, Dec. 18.—The Post-office department anticipates some little trouble over contracts for carrying the mails on star routes in Western States, under contracts that are to be made for a term of four years, commencing July 1, 1902.

Under the recent advertisement, bidders have been required to be residents along the routes on which they submit proposals, the object of this ruling being to bar out the speculative bidders who have worked so much damage to the service in the past.

But this rule has not accomplished the purpose sought. It has been discovered that speculative bidders have induced different parties living on the several routes, to submit bids upon terms which they indicate, promising to furnish the necessary bond called for by the department. The department finds that it cannot get around this action, but intends, in all such cases, to hold the party

bears witness of its long and interesting history. It is a highly picturesque city, with the new and the old in curious juxtaposition. Many of the buildings have an overhanging story supported on a colonnade, and the old almshouses and ancient taverns and churches intervene between modern factories and business blocks.

"Yes, they are funny sometimes; but you would get tired watching them," said the man at the foot of the moving stairs in a big department store. "So many of them do the same things."

"Women are never satisfied to stand still and go up; they want to walk, too, and they nearly always manage to have a foot on joint when the time comes for it to bend. Lots of them sit down, and then find trouble getting up off the floor quick enough when it gets to the top."

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AT THE HOTELS.

THE PERKINS.

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THE FLORIDA FEUD.

Two Men Killed and Two Wounded in Battle Between Families.

SANDERSONVILLE, Fla., Dec. 21.—A battle occurred this afternoon four miles from here between the Logan and Doran families. A feud has existed between the two families for a long time, and on former occasions a fight was almost precipitated.

Conditions Better at St. Louis. ST. LOUIS, Dec. 21.—Higher temperature and better transportation facilities partly relieved the threatened coal famine today. Unless some unforeseen trouble should arise, the market will be again in its normal condition by Tuesday, or, at the latest, Wednesday, according to the statements of large dealers and mine operators.

THE GREATEST RAILROAD. The Canadian Pacific Railway is beyond question the greatest railway in the world. Aside from this fact there are a great many advantages connected with this system that is of more or less interest to every one, especially the traveling public.

Weather Conditions. Light rain has fallen today in Western Oregon and Western Washington, and light snow is falling this evening in Eastern Washington. Elsewhere in the Rocky Mountain and Pacific Coast States fair weather has prevailed.

Weather Forecasts. Forecasts made at Portland for the 28 hours ending at midnight Sunday, December 22: Portland and vicinity—Cloudy, with occasional rain; southerly winds.

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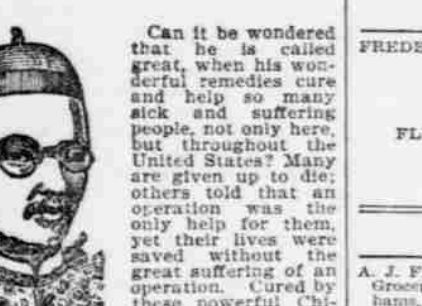
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READ! READ! READ!

What the Well-Known People of Portland Say of

C. GEE WO

THE GREAT CHINESE DOCTOR



Can it be wondered that he is called Great, who has so many wonderful remedies cure and help so many people not only here, but throughout the United States? Many are given up to die; others wait the only help for them, and the lives were saved without the great suffering of an operation. Cured by these powerful Chinese herbs, roots, barks and vegetables, that are entirely unknown to medical science in this country.

Testimonials of well-known people: Mr. A. Blakely, 74th and Everett streets, city, cured of stomach trouble two years standing. Mr. J. W. Washburn, Washington street, city, room 5, cured of kidney, liver, stomach trouble and eczema of five years' duration.

FOR SALE ON EASY TERMS.—NEW 9-ROOM modern house, built on corner of southeast corner 19th and Marshall streets. R. M. Lombard, 244 Chamber of Commerce.

FOR RENT—GARDEN LAND AT WILLAMETTE HEIGHTS, high state of cultivation. Ward, 323 Alsky bldg.

MORTGAGE LOANS On Improved City Farms, at lowest current rates. Building loans. Installment loans. MacMaster & Merrill, 211 Worcester bldg.

WE TRUST PEOPLE That either buy for cash or installments. Our terms are made to suit every one. ZIMMERMAN 214 First street. Phone North 1946. N. B.—Will take old goods in trade.

MAXWELL & KNAPP. Real Estate. Lots in Irvington, West Irvington, Lincoln Park, Portsmouth and First Electric Addition lots, etc. Also a number of good houses on East and West Side. Also a number of good houses for sale, farms and acreage. Room 2 Chamber of Commerce.

MCKINNON, 173 Third Street, near Yamhill. 5 lbs. mutton meat 25c 2 lbs. mutton meat 12c 2 lbs. mutton meat 12c 2 lbs. mutton meat 12c



The Trial Balance. —St. Paul Pioneer Press.

Table with 2 columns: Name and Amount. Includes entries like 'Mama - John Jones 2500', 'John - John Jones 1200', 'John - John Jones 800', etc.

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