



THOMAS A. EDISON, WHOSE WORK IN THE ELECTRICAL WORLD HAS GIVEN HIM THE TITLE OF "THE WIZARD."

THE PROGRESS OF THE PASSING CENTURY.

A Ponderous Automobile of 1834 Has Been Succeeded by the Light Running and Marvelous Vehicle of 1900 BY MALCOLM J. RICHARDS, PH.D.

In spite of all failures and in spite of numerous mishaps, many minds have been engaged, theoretically or practically, in attempting to solve the problem of artificial flight.

During the past hundred years considerable progress has been made toward the final solution of the great puzzle. There has been an advance along the lines of dirigible balloons, or air ships, but a flying machine that is in any way suited to the requirements of travel or transport is still beyond the achievement of man.

That such an invention is not only one of the possible but probable results of twentieth century research is the opinion of most students. Everything points to the fact that such an achievement is soon to be realized.

In spite of all this, however, there is much in the science of aeronautics that is deserving of the consideration in such a series of studies as this. Although the great success has not been achieved, ballooning, as we know it, is still distinctly the science of the nineteenth century.

FAMOUS BALLOONISTS. Among the balloonists who are most deserving of attention and praise are Henry Giffard, the Tissandier Brothers, Gaston and Albert, and Renard and Krebs. In 1852 Giffard broke all records in the history of aeronautics by constructing a balloon which was propelled by a steam engine.



NEW YORK'S NEW FIRE ENGINE IS FITTED OUT WITH A SEARCHLIGHT.

times it has been at the cost of human life, and always at a great outlay of time and money.

With the Gustave Zele in France and the Holland and Argonaut in this country, there seems to be little reason to believe that the successful submarine boat has not been invented.

ROAD TRANSPORTATION. If there is any department of human endeavor in which unprecedented progress has been made during the past century, it is in that of road transportation.

One of the first automobiles, however, was made in the early part of the present century, and it is thus described in "The Mechanics Magazine" for January, 1834.

WENT TO CANADA. Almost everyone can remember the time when every runaway bank cashier found refuge in Canada.

Up their abode upon some desert island or upon some one of the islands in the Pacific that are rarely if ever visited.

While it is quite probable that the fugitive in question would be able to escape discovery in such a place, he would not be thoroughly safe even there.

Even though the fugitive had no one of these islands offers a safer haven than Pitcairn, in the Pacific.

It is doubtful, however, if any fugitive who had been used to the refinement of the civilized world would hesitate to go and take him bodily from an island that had no treaty relations with its government.

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WHERE FUGITIVES MAY HIDE.

Few Spots Where Criminals May Conceal Themselves From the Man With the Warrant.

It was Dick Swiveler who checked off the streets of London and then decided that there was practically no thoroughfare that he could traverse without fear of meeting a creditor.

A few years ago there were many such spots, scattered from one end of the earth to the other.

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A VIEW OF THE MONEY MARKET.

Approved by Russell Sage.

The financial situation in America, said Mr. Sage, "was never more legitimate and sound than it is to-day.

The offer of the Government to anticipate interest on bonds will help to ease the money situation temporarily.

Industrials have got to take a back seat, that is most of them.

In this way does the law of the country protect the man who has succeeded in escaping from any political despotism in Europe.

Refuge has been taken from Pitcairn until now he will be compelled to take up his abode in a balloon or upon a practically deserted island.

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SECRETARY ROOT RIDES HORSEBACK.

Though He Has Not by Any Means Found the Animal He Wanted.

When Secretary Root was at Lake Champlain with the President, he was called upon to review the Twenty-sixth Volunteer Regiment.

"Nothing, Mr. Secretary. Nothing," said General Corbin.

"I understand, Mr. Secretary, I will ask Gen. Ludington, who has had considerable more experience than either of us, to aid me in making the selection."

"Ah, yes, let me see. What color? I had never thought of that. I always rather fancied a gray horse, you know; perhaps it was from a picture I once saw. Yes, I believe it was. You recall the magnificent gray horse Napoleon rides in the canvas, 'The Eve of Waterloo'?"

"A splendid animal, Mr. Secretary," said Gen. Ludington.

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THIS DESOLATE ISLAND OFF IN THE FAR PACIFIC, IS NOW THE ONLY SPOT WHERE FUGITIVES CAN FIND REFUGE.



RUSSELL SAGE, CALLED THE "UNCLE" OF WALL STREET.

—Well, sir, you might say not exactly well broken. "Well, sir, I have no objection to a sorrel. In fact, I am not particular about the color, all I want is a broad back, though, remember, that is the main point—and the disposition."



AN AUTOMOBILE WHICH WAS THE WONDER OF THE WORLD IN 1834. IT CARRIED 50 PEOPLE.