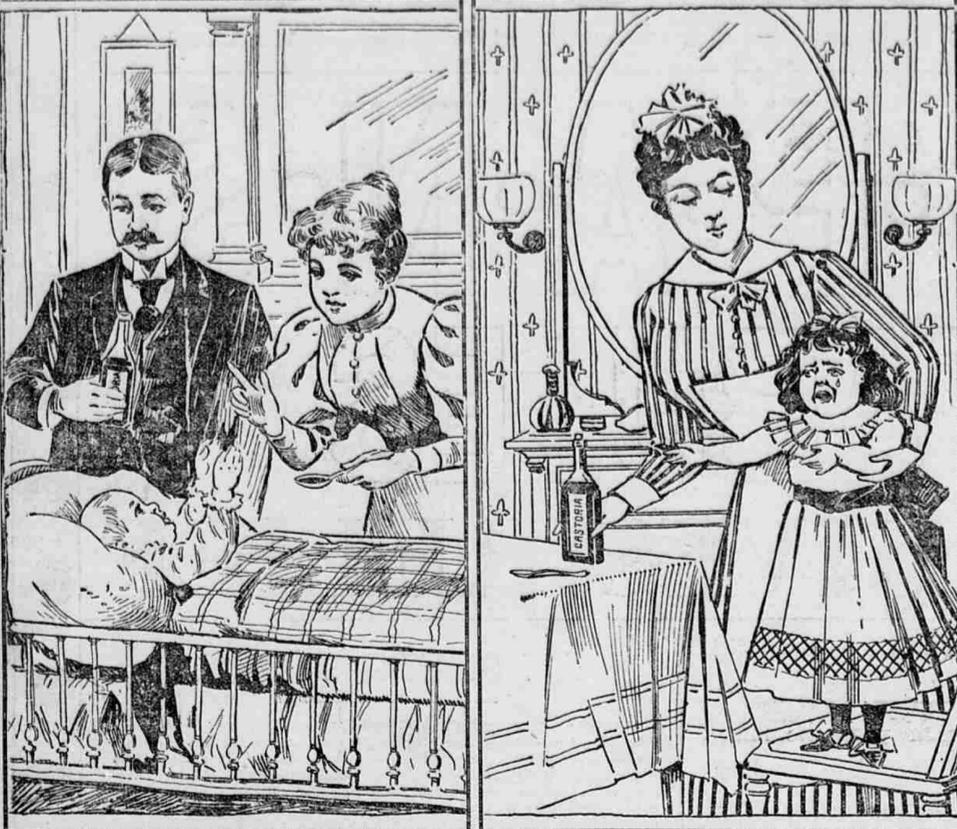


When Baby was sick, we gave her CASTORIA. When she was a Child, she cried for CASTORIA. When she became Miss, she clung to CASTORIA. When she had Children, she gave them CASTORIA.



Advertisement for Castoria medicine, including text: 'Exact Size of Bottle', '900 DROPS', 'A Vegetable Preparation for Assimilating the Food and Regulating the Stomachs and Bowels of INFANTS & CHILDREN', 'Promotes Digestion, Cheerfulness and Rest Contains neither Opium Morphine nor Mineral. NOT NARCOTIC.', 'Recipe of Old Dr. J.C. WELLS', 'A Perfect Remedy for Constipation, Sour Stomach, Diarrhoea, Worms, Convulsions, Feverishness and LOSS OF SLEEP', 'Fac Simile Signature of Chas. H. Wells NEW YORK', '60 DROPS FOR INFANTS', '25 CENTS'.



WORDS that are FAMOUS in every HOUSEHOLD in the WORLD.

INVENTIONS OF A CENTURY

J. H. McJonnell's Lecture Before the Methodist Chautauqua College.

AMERICA HAS MOVED UP TO THE FRONT

Detailed History of the Improvements Made in Mechanical Appliances by the Skilled Workmen in This Country.

At the Chautauqua college of the First Methodist Episcopal church, held last Monday night, J. H. McJonnell, superintendent of motive power and machinery of the Union Pacific railway system, delivered a lecture on "American Industries and Inventions of the Nineteenth Century."

When we investigate the growth of American industries and inventions in the nineteenth century, from a mechanical standpoint, the first to attract our attention is Fulton's steamboat on the Hudson river.

While Robert Fulton was not the first man to construct a steamboat, he was the first man to make a success of the steamboat, as all other attempts previous to 1807 were failures.

The improvement in the stationary engine in the United States was not very marked until about 1850. Engines were not constructed with any particular view to fuel economy. Some were running, consuming twice the quantity of fuel necessary to do the work.

HIGH SPEED ENGINES.

In 1852 Mr. Corlis contracted with Crocker Bros. of Taunton, Mass., to furnish them with an engine to do the same work with two tons of coal per day that they were doing with five tons, and agreed to pay them \$1 per pound for every pound of coal his engine consumed over two tons per day.

of five miles an hour? Fulton is therefore entitled to an invention which has cost a great many lives and destroyed an immense amount of property—steamboat racing.

Previous to 1815 it required four months to make the trip on a flat boat from New Orleans to St. Louis. The steamer Enterprise built in 1815, made the trip from New Orleans to Louisville in twenty-five days, two hours and forty minutes.

THE FIRST TELEGRAPH LINE.

In the year 1832, while returning from a voyage to England, Prof. Morse conceived the idea of the electric telegraph. After a great many experiments and discouragements in New York in 1835 he put in operation his first model.

"James K. Polk has been nominated for president by the democratic convention in

An evening paper published the dispatch and it was everywhere ridiculed. When the telegraph line between Baltimore and Washington. The proposition was looked upon as wild and visionary.

ADVENT OF THE RAILROAD.

The railway industries of the United States date from 1825, when the first railroad, two miles long, was built at Quincy, Mass. It was operated by horses.

work there, making use of the same steam twice. In the triple expansion engine the same steam is made to do work for all three cylinders, their being constructed of increased diameter; as the steam loses its force the increased diameter of the next cylinder makes up for the loss in pressure.

PRINTING PRESS EVOLUTION.

The printing press has shown remarkable development since 1800. In 1835 the press capable of printing 1,500 copies an hour and three men working from midnight until 6 in the morning could turn out the whole edition.

DECLINE OF THE HORSE CAR.

The Westinghouse air brake is one of the important American inventions of the last thirty years. It is now in use on railroads in all parts of the world.

DECLINE OF THE HORSE CAR.

Notwithstanding the opposition, the line was completed and put in operation in August to the surprise of everybody but Mr. Hallide. It was a success. After three years service other lines were established in San Francisco.

Chicago, making about 1,000 miles in twenty-four hours, are no longer considered fast. The Empire State express between New York and Buffalo runs at the rate of fifty-two miles an hour, including stops.

MILES AND MILES OF CARS.

The weight of a rail is given as so much per yard. A seventy pound rail means seventy pounds per yard. Rails are thirty feet in length. Some years ago twenty-six feet was the length, but now thirty feet is standard.

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This is the first record of any paid fire department in the world. In the year 1837, in Connecticut, the first clock with a brass movement was manufactured. It ran thirty hours.

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