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Preventive Better Than Cure-- Copper Sulphate Purifies Drinking Water.

NEW METHOD IS HARMLESS

Virulent Cholera and Typhoid Bacilli Destroyed in Four or Five Hours. Discovery of Government Specialist.

Man would seem to have at last discovered an effective weapon against typhoid fever, Asiatic cholera and similar merciless scourges which invade our intestinal and digestive organs through polluted water. It is yet too soon to declare positively that we shall exterminate these dread diseases, but we have good reason to believe that we shall be able to drive them out of cities and towns, and camps and prisons, and wherever men are living herded close together. The weapon is not of steel or iron, but copper, the most convenient form being the compound of copper and sulphur known as blue vitriol, copper sulphate. Every school laboratory contains some beautiful blue crystal of copper sulphate. Every schoolboy for generations has dabbled with these blue crystals or has watched his teacher use them for ordinary classroom experiments. And yet who would have imagined that a pinch of these crystals dissolved in the water-tank in the attic, or in the cistern or well, would kill any typhoid germs that might be lurking there; that its use would insure healthful drinking water in a military camp; that it would exterminate malarial and yellow-fever-carrying mosquitos in stagnant pools and swamps by destroying the vegetable organisms on which the mosquito larvae feed; that it would in a few hours, make the water of an evil-smelling and foul-looking city reservoir, containing billions of gallons of water, clean and sweet; and that the amount of copper that accomplishes all this is so small that while it kills the bacteria in the water it does not make the drinking water poisonous or injurious to the human system.

It has been known for a long time that copper destroys bacteria, but the metal has not been much used heretofore for the purpose, because scientists have generally believed that the dose required to kill the bacteria must be very concentrated—so concentrated in fact, that it would poison the water or substance containing the bacteria and make the cure worse than the evil. A specialist of the United States government, Dr. George T. Moore, has now come forward and announced, with the authority of the government behind him, that he has discovered how to get the good effect of copper without any dangerous result; that he has a way of using copper so diluted that it cannot hurt a baby and yet so active that it will destroy virulent cholera and typhoid bacilli in four or five hours.—From Gilbert H. Grosvenor's "The New Method of Purifying Water," in the December Century.

IN THE "GOOD OLD TIMES"

Facts Which Show How Much Better Off We Are today.

Not until February of 1812 did the people of Kentucky know that Madison was elected president in the previous November.

In 1834 one of the leading railroads of the United States printed on its time-table: "The locomotive will leave the depot every day at ten o'clock, if the weather is fair."

The first typewriter was received by the public with suspicion. It seemed subversive of existing conditions. A reporter who took one into a courtroom first proved its real worth.

In England, some centuries ago, if an ordinary workman, without permission, moved from one parish to another in search of work or better wages, he was branded with a hot iron.

When Benjamin Franklin first thought of starting a newspaper in Philadelphia many of his friends advised against it, because there was a paper published in Boston. Some of them doubted that the country would be able to support two newspapers.

One hundred years ago, the fastest land travel in the world was on the Great North road, in England, after it had been put into its best condition.

There the York mail coach tore along at the rate of ninety miles a day, and many persons predicted Divine vengeance on such unseemly haste.

When Thomas Jefferson was elected president of the United States, on February 17, 1801, after one of the most exciting political campaigns in our history, the gratifying news did not reach the successful candidates for as many days as it now takes hours to transmit the result of a presidential election to the whole world.

When in 1809, Richard Trevithick uttered the following words, there were many who considered him an insane, dangerous person: "The present generation will use canals, the next will prefer railroads with horses, but their more enlightened successors will employ steam carriages on railways as the perfection of the art of conveyance."

When Benjamin Franklin first took the coach from Philadelphia to New York he spent four days on the journey. He tells us that, as the old driver

jogged along, he spent his time knitting stockings. Two stage coaches and eight horses sufficed for all the commerce that was carried on between Boston and New York, and in winter the journey occupied a week.

Napoleon, at the height of his power, could not command our every-day conveniences, such as steam heat, running water, bath and sanitary plumbing, gas, electric light, railroads, steamboats, the telegraph, the telephone, the phonograph, daily newspapers, magazines, and a thousand other blessings which are now part of the daily necessities of even manual laborers.

When the first two tons of anthracite coal were brought into Philadelphia, in 1803, the good people of that city, so the records state, "tried to burn the stuff; but, at length, disgusted, they broke it up and made a walk of it." Fourteen years later, Colonel George Shoemaker sold eight or ten wagonloads of it in the same city, but warrants were soon issued for his arrest for taking money under false pretense.

A HAPPY MOTHER

WEATHERFORD, TEXAS, May 14, 1904.

Before my baby was born I was in great misery. I was just able to be about but just as soon as I began to take Wine of Cardui, which had been recommended to me, I felt much better. In fact I feel that if it had not been for this medicine I would not have been strong enough to live through childbirth. But that was made comparatively easy by taking your medicine for four months before baby came. Wine of Cardui restored my health as I took it two months afterward. I cannot speak too highly of Wine of Cardui and I am glad to endorse it.

Mrs. C. G. Wood
TREASURER, YOUNG MATRONS' CLUB.

Wine of Cardui is a powerful tonic which acts on the generative organs of women, regulating menstruation and giving tone and strength to the organs which inflammation and weakness have affected. It cures nineteen out of every twenty cases of bearing-down pains or ovarian troubles. Wine of Cardui cures barrenness and aids the mother in conserving her strength for the ordeal of childbirth. After that event the Wine prevents dangerous flooding and helps mothers to quick recovery. Wine of Cardui is the one medicine a mother should use before and after childbirth. All druggists sell \$1.00 bottles Wine of Cardui.

WINE OF CARDUI

O. R. & N. OREGON SHORT LINE

AND UNION PACIFIC San Francisco and Portland S. S. Co. 70 hours from Portland to Chicago. No change of cars.

Depart	TIME SCHEDULES From PORTLAND	Arrive
Chicago Portland Special 8:15 a. m. via Huntington	Salt Lake, Denver, Ft. Worth, Omaha, Kansas City, St. Louis, Chicago and the East	6:25 p. m.
Atlantic Express 8:10 p. m. via Huntington	Salt Lake, Denver, Ft. Worth, Omaha, Kansas City, St. Louis, Chicago and the East	7:15 a. m.
St. Paul Fast Mail 6:15 p. m. via Spokane	Walla Walla, Lewiston, Spokane, Minneapolis, St. Paul, Duluth, Milwaukee, Chicago, and East	6:00 p. m.

OCEAN AND RIVER SCHEDULE —From Astoria— All sailing dates subject to change.

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Particular Don't Travel Over the Illinois Central, as Any old road will do you and we don't want your patronage; but if you are particular and want the best and mean to have it, ask the ticket agent to route you via the ILLINOIS CENTRAL, the road that runs through solid vestibule trains between St. Louis, Memphis and New Orleans. No additional charge is made for a seat in our reclining chair cars which are fitted with lavatories and smoking rooms, and have a porter in attendance. Rates via the ILLINOIS CENTRAL are the lowest and we will be glad to quote them in connection with any transcontinental line. B. H. TRUMBULL Commercial Agent, 142 Third Street, Portland, Ore. J. C. LINDSEY, T. F. & P. A., 142 Third Street, Portland, Ore. PAUL B. THOMPSON, Frt. & Passenger Agent, Colman Bldg., Seattle, Wash.

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