

THE PRINCIPLE OF ELECTRICITY

Its Boundaries Expanding in the Domain of Medicine.

DRUGS ADMINISTERED BY ELECTRICITY

Possibility of Sending the Virtues of Medicine Many Miles—Advantages and Dangers of Its Employment.

It would seem impossible at first thought that the virtue of a drug or a liquid could be carried through a wire, as telegraphic messages are carried, and made to penetrate the human body along with the electric current. And yet it is quite certain, as experts in electro-therapeutics know, that something very like this is now not only possible but easy of accomplishment.

Take for instance a solution of the drug cocaine, soak a sponge with it and fasten the sponge about one electrode of a galvanic battery, the aggressive one or anode should be chosen, from which the current goes in strong flow to the cathode, famous in these days from the Reichenow treatment.

Now place the electrode thus covered with cocaine at any desired part of the body, the other electrode being applied as convenient, and let a current be turned on from the battery. Immediately the cocaine will begin to penetrate the body, literally to penetrate it.

There is no doubt that the condition of local anesthesia results from the cocaine being really carried into the body by the electric current, since when the cocaine and the current are applied separately, no insensibility ensues.

This very convenient experiment was performed several years ago by Dr. Peterson of the New York College of Physicians and Surgeons, who was able by it to relieve the most intractable cases of neuralgia.

While important as furnishing a convenient means for producing local anesthesia, this experiment of Dr. Peterson's was but a precursor of many others to follow, such rapid advances having been made in this new field within recent years.

It is true this much to be desired consummation is not yet fully attained, although it is being more and more approached by the pleasant agency of a galvanic current, most of the drugs that have hitherto been administered through the body.

And lest any one think that we are now in the realm of vain speculation, let me say that so great an authority as Dr. Luys has demonstrated, that electric currents may be arranged so as to have a well understood effect upon a patient's mind.

Two men of letters, eight miles apart, near a prominent street corner a few mornings ago stopped, shook hands, inquired after each other's health, and spent a minute or two in desultory talk, relates the Chicago Tribune.

By these three methods it is possible to administer drugs electrically, their presence in the blood being proved by powerful tests. The method is quite as successful as when taken in the ordinary way.

It is a patient development of this method of cataphoresis that is conceived by Doctor Morton of Paris, who has recently returned to New York by Dr. William J. Morton, son of the discoverer of anesthesia.

Chemical changes are constantly going on at the electrodes of the galvanic battery, and are carried to Dr. Morton that it might be possible by using electrodes of various metals to make electric apparatus not only a means for administering any desired drug, but to make it actually produce the drug itself.

This may seem puzzling, but a little reflection will make it clear enough. It is known, for instance, that most of the drugs used by physicians are merely the salts of ordinary metals, iron, copper, zinc, aluminum, etc.

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PNEUMATIC TUBE SYSTEMS

Improved Means of Expediting the Mail Service in Cities.

PRESENT METHODS BEHIND THE TIMES

Details of an Experimental Pneumatic Plan and What May Be Accomplished—Growing Demand for Rapid Transit.

The postal service of the United States, says a writer in Harper's Weekly, is in a measure accountable for the length of time taken in the preliminary forwarding of mail matter. No possible fault can be found with the general expedition. Postal trains running at the highest rate of speed carry the mails.

The perfect postal service is really nothing more than an express business. With the assurance of the perfect safety of the objects received and delivered, it is the element of speed which is paramount, but the entire system of the postoffice is at fault so far as relates to the initial movement of mail matter in the large cities.

Just how fast the electric current can carry the power of drugs has not yet been determined, but there are enthusiasts in New York to the effect that the pneumatic tube will show in their bodies and subsequent symptoms the real presence and effect of the drugs thus introduced.

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THE OMAHA DAILY BEE: FRIDAY, AUGUST 21, 1896.

WORLD'S FAIR COINS.

Columbian Halves and Isabella Quarters a Favorite Market.

Three years ago everybody wanted a Columbian half dollar and an Isabella quarter, and wanted them bad, says the Chicago Inter Ocean.

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PROPOSED CONSTITUTIONAL AMENDMENTS

The following proposed amendments to the Constitution of the State of Nebraska, as hereinafter set forth in full, are submitted to the electors of the State of Nebraska, to be voted upon at the general election to be held Tuesday, November 3, A. D. 1896.

Section 1. That section five (5) of article six (6) of the Constitution of the State of Nebraska, relating to number of judges of the supreme court and their term of office.

Section 2. That section four (4) of article six (6) of the Constitution of the State of Nebraska, relating to number of judges of the supreme court and their term of office.

Section 3. That section three (3) of article six (6) of the Constitution of the State of Nebraska, relating to number of judges of the supreme court and their term of office.

Section 4. That section two (2) of article six (6) of the Constitution of the State of Nebraska, relating to number of judges of the supreme court and their term of office.

Section 5. That section one (1) of article six (6) of the Constitution of the State of Nebraska, relating to number of judges of the supreme court and their term of office.

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