Nikola Tesla Noted Narcotic Influences of Periodic Currents in 1898.

To the Editor of The New York Times:

I have read with interest the reports in THE TIMES of the 13th and 15th insts. referring to Prof. Leduc's discovery of causing sleep by electric means. While it is possible that he has made a distinct advance there is no novelty in the effect itself.

The narcotic influence of certain periodic currents was long ago discovered by me and has been pointed out in some of my technical publications, among which paper on " High may mention a quency Oscillators for Electro Therapeutic and Other Purposes," read before the American Electro Therapeutic Asso-I have also shown ciation Sept. 13, 1898. that human tissues offer little resistance to the electric flow and suggested an absopainless method of electrocution lutely currents through the passing brain. It is very likely that Prof. Leduc has taken advantage of the same general principles though he applies the currents in a different manner.

In one respect, however, my observations are at variance with those reported. From the special dispatch in THE TIMES of the 13th inst. it would appear that sleep is induced the moment the currents are turned on, and that awakening follows as soon as the electrodes are withdrawn. It is, of course, impossible to tell how strong current was employed, but the resistance of the head might have been, perhaps, 3,000 ohms, so that at thirty volts the current could have been only about 1-100 an ampere. Now, I have passed 5,000 times stronger least current at through my head and did not lose conbut I invariably fell into sciousness. lethargic sleep some time after. This fact impresses me with certain arguments of Prof. Barker of Columbia University in your issue of Sept. 15.

I have always been convinced that electric anaesthesia will become practical, but the application of currents to the brain is so delicate and dangerous an operation that the new method will require long and careful experimentation before it can be used with certitude.

NIKOLA TESLA.

New York, Oct. 16, 1907.

The New York Times

Published: October 19, 1907 Copyright © The New York Times