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Contents.

(Illustrated articles are marked with an asterisk.)

Table listing various articles such as 'Air, compressed, devices', 'American Association, 43rd meeting', 'Ants as bridge builders', etc., with corresponding page numbers.

TABLE OF CONTENTS OF SCIENTIFIC AMERICAN SUPPLEMENT No. 963.

For the Week Ending June 16, 1894.

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Table listing detailed contents for the week ending June 16, 1894, including sections on Agriculture, Astronomy, Biography, Botany, Civil Engineering, Farming, Geography and Exploration, Geology, Horticulture, Mechanical Engineering, Metallurgy, Miscellaneous, Pharmacy, Physiology, Railroad Engineering, Sanitation, and Technology.

OPENING OF THE FIELD MUSEUM.

The great Field Columbian Museum was opened June 2. The beautiful Art building of the Columbian Exposition, held at Chicago last year, has been utilized. On Oct. 26, 1893, Marshall Field, one of Chicago's merchant princes, subscribed \$1,000,000, and the success of the Museum was assured. Donations poured in rapidly and the various States of the Union vied with foreign countries in supplying objects for the Museum.

HOW TO PREVENT AND EVADE INSANITY.

The last number of the Alienist and Neurologist contains an interesting article by Dr. Wm. W. Ireland, of Edinburgh, on the above subject. He holds that persons accustomed to mental cultivation and discipline have great advantages in escaping from the taints of insanity. He thinks that mathematics is a very healthful exercise for a disturbed mind.

PASSENGER RAILROAD TRAFFIC IN NEW YORK AND LONDON.

According to a recent article in the Railroad Gazette, the steam city railroads of London earn only \$73,000 a mile, while those of New York City earn \$300,000 a mile per annum. It appears the New York railroads carry a far larger number of passengers and run quicker and make more stops than the London roads.

FREE ELECTRICITY.

According to a writer in the New York World, there are a number of places in the city of Brooklyn where electricity may be had free of charge, by simply connecting wires between water mains and gas pipes where they enter buildings.

It is said that in some cases electricity enough to run fans and sewing machines, to the extent of over one H. P., can be had; it is stated that the gas pipe in almost any house near the trolley lines will give seven amperes and 300 volts, sufficient to run seven ordinary electric fans or furnish power for seven 16 candle lights.

THE LIMITATION OF VIVISECTION.

The benefits derived from vivisection are incontestable, but like some other good things, vivisection is often wrongfully used. The general public and even members of the medical profession are ignorant of the extent of vivisection and of the methods of its practice. In order to promote interest in this subject, a society, having headquarters in New York City, has been formed, entitled: "The Society for the Protection of Animals Under Vivisection."

THE ENGINEER'S WORK IN MODERN BUILDINGS.

The profession of architect as relating to the designing of buildings has occupied a position intermediate between that of a profession and of an art. It has related to the production of the beautiful, and the architectural enthusiast has often placed his field of work on a par with music, and has regarded it as the crystallization of all that is best in the plastic and designing arts.