

Charles F. Brush

(A'84, M'84, member for life)

Honorary Member 1929

Edison Medalist 1913

OVER a period of almost 60 years of activity, Charles Francis Brush was in the forefront as a pioneer in electrical development. He was born at Euclid, Ohio, March 17, 1849. While still at school, he became intensely interested in electrical apparatus. In 1869 he graduated in mining engineering from the University of Michigan, later securing the degree of M.S. at this university, followed by a Ph.D. from the Western Reserve University, Cleveland. One of the first to realize the value of the work of Gramme, in 1876, he designed and built a dynamo. The following year he introduced the compound field winding for obtaining constant voltage. It was at an exhibit in 1878 that he displayed the earliest form of what afterward became the world famous Brush arc light machine. His, too, was the invention of the differential arc lamp, which made it possible to operate lamps in series, and of many other devices. In 1881 the Brush Electric Company was

50th ANNIVERSARY NUMBER