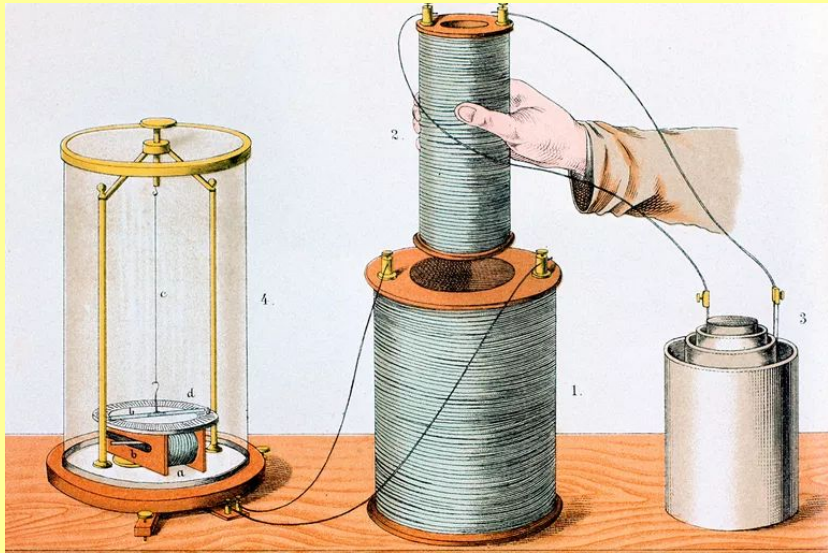


M. Faraday
1791 - 1867



81.

Aug 29th 1831.

Expts on the production of Electricity from Magnets do not
 have had an iron ring made (soft iron). iron round and ^{1/2} inches
 thick of ring 6 inches in external diameter. Wound many
 coils of copper wire round one half the coils being separated
 by wire & fabric - there were 3 lengths of wire each about 24
 feet long and they could be connected as one length or used
 as separate lengths. By trial with a trough each was
 insulated from the other. Will call this side of the Ring
 A. on the other side but separated by an
 interval was wound wire in two pieces
 together amounting to about 60 feet in
 length the direction being as with the former
 coils. this side call B.

Charged a battery of 10 p^l plates bunches opposite. Made
 the coil on B side one coil and connected its extremities by
 a copper wire passing to a distance and just over a magnetic
 needle (3 feet from wire ring). then connected the end of one of the

