

The furnace current was then cut off and the rod H was raised as quickly as possible until contact was made with S at C. A positive potential of 80 volts was then applied to P and readings were taken with increasing magnetic fields at intervals of a few minutes for half an hour.

The magnetic field was then cut off and at the end of 55 minutes readings were again taken at intervals for half an hour with electric fields ranging from zero to 80 volts. At the end of 90 minutes a reading was taken with an applied field of 80 volts and a magnetic field of 1,200 gauss and at the end of 190 minutes a reading was again taken under the same conditions.

All these readings are recorded in Tables V and VI and curves drawn from them are shown in Figs. 6 and 7.

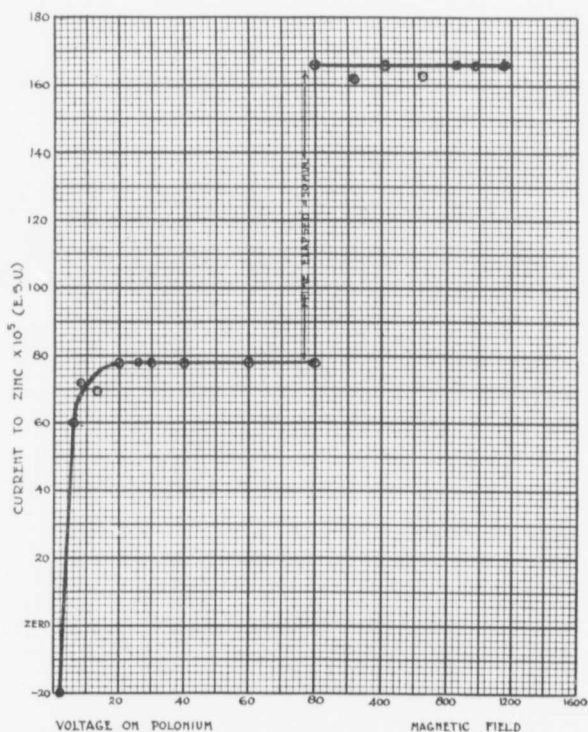


Fig. 6.