

given by  $\nu = 2$ ,  $\mu_2 = 1.5$ , S, and corresponding to the lines  $\lambda = 2536.72$  A.U.,  $\lambda = 3076.99$  A.U. and  $\lambda = 3260.17$  A.U. in the spectra of mercury, zinc, and

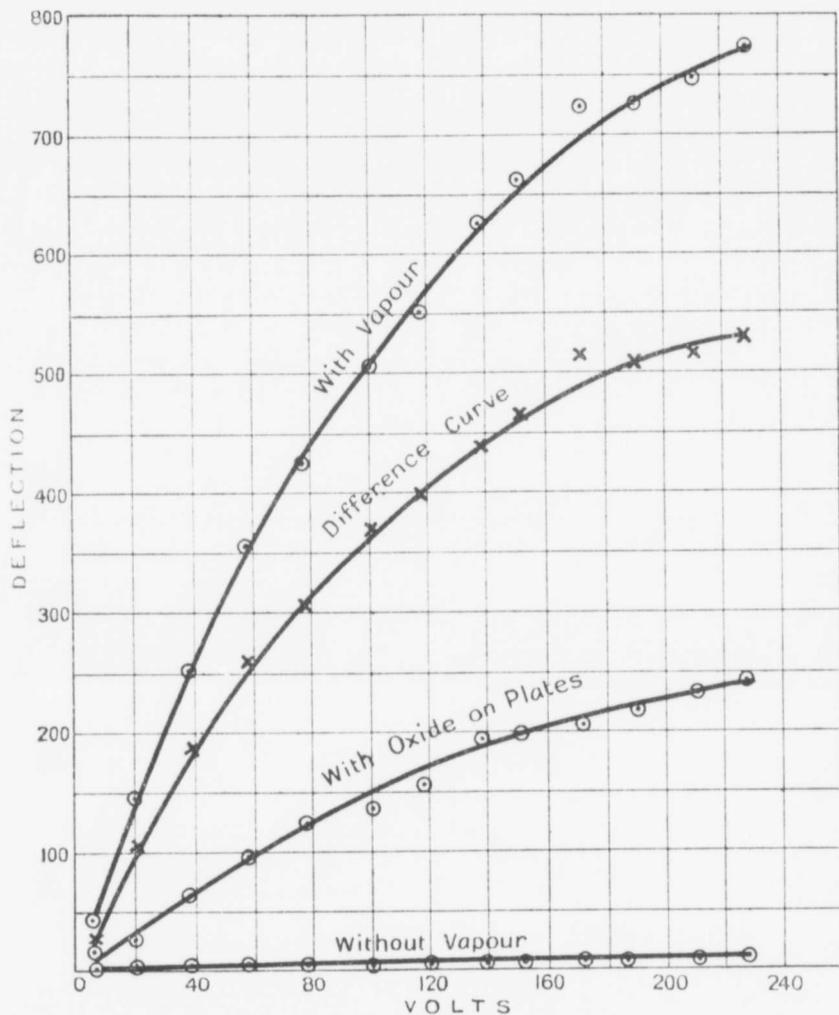


FIG. 6.

cadmium respectively is given by  $\lambda = 4571.38$  A.U. This line has been found in the arc spectrum of magnesium, and as already mentioned it has been found by some experimenters in the Bunsen flame spectrum of magnesium, but in none of the experiments made by us with the magnesium