

subjected to a stimulation sufficiently intense to cause it to radiate light of a wave-length  $\lambda = 3075.99 \text{ \AA.U.}$ , it is not ionised.

Table II.—Zinc. Distance between Plates 0.8 cm.

| Volts.    | Without zinc vapour. | With zinc vapour. | Difference. |
|-----------|----------------------|-------------------|-------------|
| Column I. | Column II.           | Column III.       | Column IV.  |
|           | cms.                 | cms.              | cms.        |
| 6         | 1.6                  | 1.5               | -0.1        |
| 20        | 4.9                  | 4.3               | -0.6        |
| 40        | 6.9                  | 7.4               | 0.5         |
| 60        | 9.2                  | 10.2              | 1.0         |
| 78        | 11.9                 | 13.0              | 1.1         |
| 102       | 15.6                 | 15.3              | -0.3        |
| 120       | 15.7                 | 16.4              | 0.7         |
| 140       | 19.2                 | 18.8              | -0.4        |
| 161       | 19.6                 | 20.4              | 0.8         |
| 181       | 21.4                 | 25.2              | 3.8         |
| 201       | 22.1                 | 23.0              | 0.9         |
| 221       | 31.0                 | 29.1              | -1.9        |
| 239       | 25.2                 | 30.6              | 5.4         |

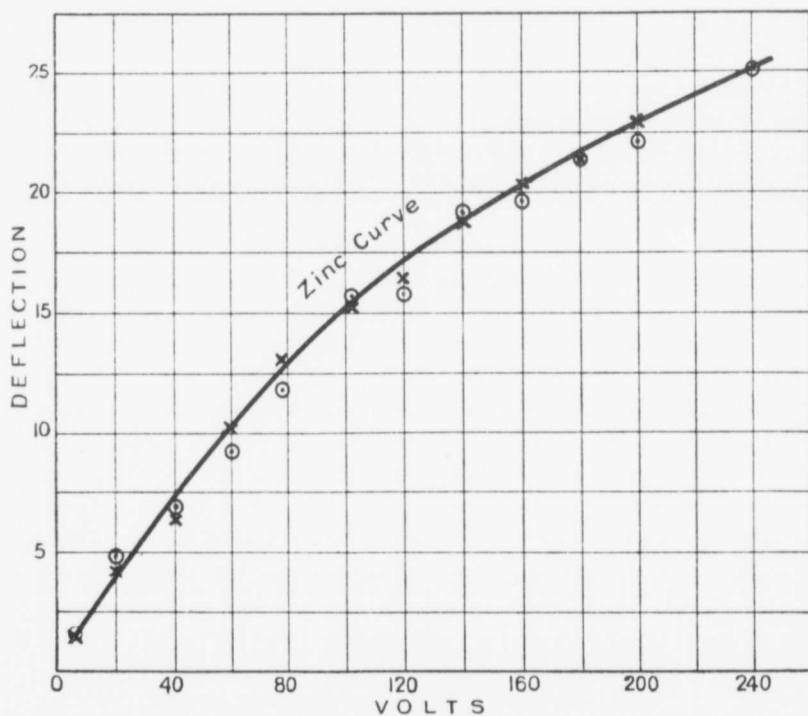


FIG. 5.