

# United States Patent [19] Campbell

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- [54] **ELECTRON GUN WITH A MULTI-ELEMENT ELECTRON LENS**
- [75] Inventor: **Francis Joseph Campbell**, Yardley, Pa.
- [73] Assignee: **RCA Corporation**, New York, N.Y.
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*Primary Examiner*—Robert Segal  
*Attorney, Agent, or Firm*—Glenn H. Bruestle; Donald S. Cohen; George E. Haas

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- [51] Int. Cl.<sup>2</sup>..... H01T 29/29; H01J 29/82
- [58] Field of Search ..... 315/3; 313/414, 412, 409, 313/411, 449

### [57] ABSTRACT

The disclosed apparatus is a multiple beam electron gun having a wide focusing lens gap. The lens gap has a plurality of metal elements, spaced therein, each successive element of which has a successively greater voltage applied to it. The application of the voltages creates an electrostatic field which focuses a plurality of beams generated by the gun.

- [56] **References Cited**  
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**8 Claims, 3 Drawing Figures**

