

ABSTRACT

An illumination unit large in the quantity of light, compact in size and simple in construction without being susceptible to change in ambient temperature is disclosed. In the unit, a cathode 1 for emitting electrons, an anode 3 for accelerating the emitted electrons, fluorescent substances 4G, 4R and 4B for emitting luminescence due to collision of the electrons thereagainst are provided within an air-tightly closed vacuum vessel 20. Further, back electrodes 2G, 2R and 2B for controlling the electron emission area are arranged in the vicinity of the cathode 1.

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