

Title (en)
PHOTOMULTIPLIER

Title (de)
PHOTOVERVIELFACHER

Title (fr)
PHOTOMULTIPLICATEUR

Publication
EP 0876678 A1 19981111 (EN)

Application
EP 96901061 A 19960125

Priority
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Abstract (en)
[origin: WO9727615A1] A photomultiplier device is made from a number of layers (2, 4, 6) bonded together. The layers include a photocathode layer (2) which emits photoelectrons when a photon is incident upon it, an electron multiplying layer (4) which multiplies the electrons emitted from the photocathode (2), and an anode layer (6) upon which the electrons emitted from the electron multiplying layer (4) are incident. The different layers (2, 4, 6) may be spaced from each other by spacer members (3, 5) and the cavity between the layers (2, 4, 6) evacuated. The photocathode layer (2) may be formed from a photoresponsive coating on a transparent substrate (1). The electron multiplying layer (4) may be a microchannel plate. The different layers (2, 4, 6) may be in the form of wafers, in which case the manufacture of the device includes a step of dicing the wafers after the layers have been bonded together to form a plurality of discrete devices.

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