

Title (en)
Photomultiplier

Title (de)
Photovervielfacher

Title (fr)
Photomultiplicateur

Publication
EP 0658919 B1 19971112 (EN)

Application
EP 94309210 A 19941209

Priority
JP 30937193 A 19931209

Abstract (en)
[origin: EP0658919A2] There is provided a photomultiplier in which a transmittance of an incident light and a photosensitivity is high and a hysteresis characteristic is excellent. Therefore, in the present invention, a photocathode 16, dynodes 17a to 17c and an anode 18 are supported between insulating material substrates 12a and 12b provided in a glass bulb 11. A transparent conductive film 19 is formed on an inside wall surface of a light entrance portion 15. The transparent conductive film 19 electrically contacts with a pad 20 which is led through a terminal 14 to the outside. The same potential as the photocathode 12 is applied through the pad 20 to the transparent conductive film 19. The incident light directly impinges on the photocathode 16 through the glass bulb 11 and the transparent conductive film 19 at a place corresponding to the light entrance portion 15. As a result, the incident light reaches the photocathode 12 with not being interfered at all, and the transmittance of the incident light is improved. Since a predetermined potential is applied to the transparent conductive film 19, the change of the potential of the inside wall surface of the glass bulb 11 is performed at high speed, and the hysteresis becomes extremely small. <IMAGE>

IPC 1-7
H01J 43/04; **H01J 43/28**

IPC 8 full level
H01J 43/20 (2006.01); **H01J 43/04** (2006.01); **H01J 43/06** (2006.01); **H01J 43/28** (2006.01)

CPC (source: EP)
H01J 43/04 (2013.01); **H01J 43/06** (2013.01)

Cited by
CN103456594A

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0658919 A2 19950621; **EP 0658919 A3 19950823**; **EP 0658919 B1 19971112**; DE 69406764 D1 19971218; DE 69406764 T2 19980402; JP 2695604 B2 19980114; JP H07161334 A 19950623

DOCDB simple family (application)
EP 94309210 A 19941209; DE 69406764 T 19941209; JP 30937193 A 19931209