

Title (en)

Image intensifier tube.

Title (de)

Bildverstärkerröhre.

Title (fr)

Tube intensificateur d'images.

Publication

**EP 0241726 A1 19871021 (DE)**

Application

**EP 87103724 A 19870314**

Priority

DE 3612368 A 19860412

Abstract (en)

1. An image intensifier tube with an axially symmetrical structure comprising a cathode assembly equipped with an input surface with a photocathode and at least one exhaust tube, an anode cone with a small-diameter aperture through which the electrons pass and which tightly girdles the electron flow at this point, a display screen electrode attached to a phosphor screen mounted in an output window with several annular isolating elements that are joined with the electrodes or their mounts vacuum-tight in such a way that, together with these, they form a vacuum envelope while at the same time keeping the electrodes isolated and at the proper distances from one another, characterized in that a multi-channel plate array for electron amplification (8) is situated just before the phosphor screen (7), that a housing section consisting of two annular metallic parts (11a, 11b) is inserted between the multi-channel plate array (8) and the anode cone (6), both parts of which (11a, 11b) bear outward-pointing flanges (12), and that the vacuum-tight joint between these two annular parts (11a, 11b) is implemented in such a way at the circumference (13) of the flanges (12) that it can be reseparated by machining away metal at the circumference (13) of the flanges (12).

Abstract (de)

Bei einer Bildverstärkerröhre mit Photokathode (5), Leuchtschirm (7), einer Multikanal-Verstärkerplatte (8) und einer dazwischenliegenden Anode (6) mit kleiner Elektronendurchtrittsöffnung (16) wird vorgeschlagen, im Bereich zwischen dieser Anode und der Multikanal-Verstärkerplatte ein aus zwei Metallteilen (11a, 11b) bestehendes Gehäuseteil vorzusehen, das eine lösbare vakuumdichte Verbindung aufweist.

IPC 1-7

**H01J 29/86; H01J 9/26**

IPC 8 full level

**H01J 5/28** (2006.01); **H01J 9/26** (2006.01); **H01J 29/86** (2006.01)

CPC (source: EP)

**H01J 5/28** (2013.01); **H01J 9/263** (2013.01); **H01J 29/86** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

DE NL

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**EP 0241726 A1 19871021; EP 0241726 B1 19891123; DE 3612368 A1 19871015; DE 3761032 D1 19891228**

DOCDB simple family (application)

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