

Title (en)
IMAGE INTENSIFIER TUBE

Publication
EP 0241726 B1 19891123 (DE)

Application
EP 87103724 A 19870314

Priority
DE 3612368 A 19860412

Abstract (en)
[origin: EP0241726A1] 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 resealed by machining away metal at the circumference (13) of the flanges (12).

IPC 1-7
H01J 9/26; H01J 29/86

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)

Cited by
EP0367652A1; FR2638281A1; US5017827A

Designated contracting state (EPC)
DE NL

DOCDB simple family (publication)
EP 0241726 A1 19871021; EP 0241726 B1 19891123; DE 3612368 A1 19871015; DE 3761032 D1 19891228

DOCDB simple family (application)
EP 87103724 A 19870314; DE 3612368 A 19860412; DE 3761032 T 19870314