

Title (en)
VACUUM DIODE WITH HIGH SATURATION CURRENT DENSITY AND QUICK RESPONSE TIME FOR DETECTING ELECTROMAGNETIC RADIATION

Title (de)
VAKUUMDIODE MIT HOHER SÄTTIGUNGSSTROMDICHTHE UND KURZE ANTWORTZEIT ZUR ERFASSUNG ELEKTROMAGNETISCHER STRAHLUNG

Title (fr)
DIODE A VIDE A DENSITE DE COURANT DE SATURATION ELEVEE ET TEMPS DE REPONSE RAPIDE POUR LA DETECTION DE RAYONNEMENTS ELECTROMAGNETIQUES

Publication
EP 0968518 A1 20000105 (FR)

Application
EP 98917194 A 19980320

Priority
• FR 9800564 W 19980320
• FR 9703476 A 19970321

Abstract (en)
[origin: FR2761195A1] The invention concerns a vacuum diode with high saturation current density and quick response time for detecting electromagnetic radiation, comprising a cylindrical grid (6) and a photocathode (4) extending along the cylinder axis (X). The photocathode comprises part of the inner conductor of the coaxial cable (8), said coaxial cable outer conductor and electrically insulating material being eliminated opposite this part, and the grid is electrically connected to said coaxial cable outer conductor, the inner and outer conductors being coaxial. The invention is applicable to the detection of visible infrared, ultraviolet and X-radiation.

IPC 1-7
H01J 40/16

IPC 8 full level
H01J 40/16 (2006.01)

CPC (source: EP US)
H01J 40/16 (2013.01 - EP US)

Citation (search report)
See references of WO 9843275A1

Designated contracting state (EPC)
CH DE GB IT LI

DOCDB simple family (publication)
FR 2761195 A1 19980925; FR 2761195 B1 20061215; DE 69828494 D1 20050210; EP 0968518 A1 20000105; EP 0968518 B1 20050105; US 6337537 B1 20020108; WO 9843275 A1 19981001

DOCDB simple family (application)
FR 9703476 A 19970321; DE 69828494 T 19980320; EP 98917194 A 19980320; FR 9800564 W 19980320; US 38127199 A 19991019