Title (en)

VACUUM DIODE WITH HIGH SATURATION CURRENT DENSITY AND QUICK RESPONSE TIME FOR DETECTING ELECTROMAGNETIC RADIATION

Title (de)

VAKUUMDIODE MIT HOHER SÄTTIGUNGSSTROMDICHTE 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

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Application

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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.

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