

Title (en)

Apparatus for the emission of a flow of electronic radiations and large spectrum electromagnetic radiations

Title (de)

Vorrichtung für die Emission von Elektronenstrahlen und von elektromagnetischen Strahlungen mit breiter spektraler Verteilung

Title (fr)

Dispositif pour l'émission d'un courant d'électrons et de radiations électromagnétiques à large spectre

Publication

**EP 0721193 A3 19961106 (EN)**

Application

**EP 95120358 A 19951221**

Priority

IT MI942653 A 19941227

Abstract (en)

[origin: EP0721193A2] Apparatus for the emission of a combined flow of electrons and large spectrum electromagnetic radiations having a wavelength ranging from the spectrum of the Hertzian waves to the spectrum of X rays and beyond, comprising two electric circuits (2, 2') having opposite polarities, positive (+) and negative (-). Each circuit (2, 2') comprises an electric or electronic device (7, 7'), suitable to supply a direct current whose voltage is comprised between 4000 and 80,000 V, and whose intensity is comprised between 0.05 and 0.5 mA, and a plate-like end conductor (9, 9') provided with one or more bundles of carbon fibres which act as pointed conductors, which terminal is connected to the outlet (8, 8') of said electric or electronic device. When the two plates (9, 9') provided with bundles of carbon fibres (11, 11') are positioned and approached one in front of the other, a combined flow of electrons and electromagnetic waves circulating from pole (-) to pole (+) is obtained. <IMAGE>

IPC 1-7

**G21K 5/00**

IPC 8 full level

**G21K 5/00** (2006.01)

CPC (source: EP)

**G21K 5/00** (2013.01)

Citation (search report)

- [A] GB 2181059 A 19870415 - MEMS TECHNOLOGY INC
- [A] EP 0539900 A1 19930505 - ZUMBACH ELECTRONIC AG [CH]
- [A] US 4273561 A 19810616 - FERNANDEZ-MORAN VILLALOBOS HUM
- [A] DATABASE WPI Section Ch Week 8616, Derwent World Patents Index; Class B04, AN 86-105771, XP002013287
- [A] PATENT ABSTRACTS OF JAPAN vol. 011, no. 298 (P - 620) 26 September 1987 (1987-09-26)

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE LI LU MC NL PT SE

DOCDB simple family (publication)

**EP 0721193 A2 19960710; EP 0721193 A3 19961106; EP 0721193 B1 19991013**; AT E185646 T1 19991015; DE 69512759 D1 19991118; DE 69512759 T2 20000720; DK 0721193 T3 20000417; ES 2140610 T3 20000301; GR 3032342 T3 20000427; IT 1275698 B1 19971017; IT MI942653 A0 19941227; IT MI942653 A1 19960627; PT 721193 E 20000428

DOCDB simple family (application)

**EP 95120358 A 19951221**; AT 95120358 T 19951221; DE 69512759 T 19951221; DK 95120358 T 19951221; ES 95120358 T 19951221; GR 20000400040 T 20000112; IT MI942653 A 19941227; PT 95120358 T 19951221