

Title (en)

Microwave generator and related method for generating waves

Title (de)

Hyperfrequenzwellengenerator und entsprechendes Wellenerzeugungsverfahren

Title (fr)

Générateur d'ondes hyperfréquences et procédé de génération d'ondes associé

Publication

EP 2743962 A3 20160323 (FR)

Application

EP 13194816 A 20131128

Priority

FR 1203385 A 20121212

Abstract (en)

[origin: EP2743962A2] The generator (10) has a microwave generating tube extending along an axis (L). The tube includes a cathode (18) extending along the axis, an anode (26) extending along the axis and radially surrounding the cathode, a cavity (28) defined by the cathode and the anode, and a voltage source for establishing a potential difference between the cathode and the anode. The cathode is intended to emit electrons within the cavity when the tube is supplied with electrical energy, where a section of the cavity transverse to the axis varies along the axis. An independent claim is also included for a method for generating an electromagnetic wave.

IPC 8 full level

H01J 25/587 (2006.01)

CPC (source: EP)

H01J 25/587 (2013.01)

Citation (search report)

- [X] US 3458755 A 19690729 - STAATS JAMES E
- [A] US 3458753 A 19690729 - STAATS JAMES E
- [A] US 2869012 A 19590113 - MULLER RUDOLF A
- [A] US 2004104679 A1 20040603 - OBATA HIDEYUKI [JP], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2743962 A2 20140618; EP 2743962 A3 20160323; FR 2999332 A1 20140613; FR 2999332 B1 20181026

DOCDB simple family (application)

EP 13194816 A 20131128; FR 1203385 A 20121212