Title (en)

Beam tube and particle accelerator having the beam tube

Title (de)

STRAHLROHR SOWIE TEILCHENBESCHLEUNIGER MIT EINEM STRAHLROHR

Title (fr)

TUBE À FAISCEAU AINSI QU'ACCÉLÉRATEUR DE PARTICULES DOTÉ D'UN TUBE À FAISCEAU

Publication

EP 2380414 A1 20111026 (DE)

Application

EP 09771739 A 20091202

Priority

• EP 2009066227 W 20091202
• DE 102009005200 A 20090120

Abstract (en)

[origin: WO2010083915A1] The invention relates to a radiant tube (4) for guiding a charged particle stream (10) comprising a hollow cylindrical isolation core (6) directly encompassing a beam-guiding hollow volume (8). The isolation core (6) is formed from a dielectrically acting carrier substrate (14) and an electrical conductor (16) held therein. The conductor (16) is divided into a plurality of conductor loops (20) completely encompassing the circumference of the isolation core (6) at different axial positions of the isolation core (6). The conductor loops (20) are galvanically connected to each other.

IPC 8 full level

H05H 9/00 (2006.01)

CPC (source: EP US)

H05H 5/02 (2013.01 - EP US); **H05H 7/00** (2013.01 - EP US); **H05H 7/22** (2013.01 - EP US); **H05H 9/005** (2013.01 - EP US)

Citation (search report)

See references of WO 2010083915A1

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

DE 102009005200 A1 20100729; **DE 102009005200 B4 20160225**; CN 102293067 A 20111221; CN 102293067 B 20160622; DK 2380414 T3 20150504; EP 2380414 A1 20111026; EP 2380414 B1 20150128; JP 2012515997 A 20120712; JP 5602154 B2 20141008; RU 2011134895 A 20130227; RU 2544838 C2 20150320; US 2011285283 A1 20111124; US 9351390 B2 20160524; WO 2010083915 A1 20100729

DOCDB simple family (application)

DE 102009005200 A 20090120; CN 200980154948 A 20091202; DK 09771739 T 20091202; EP 09771739 A 20091202; EP 2009066227 W 20091202; JP 2011545649 A 20091202; RU 2011134895 A 20091202; US 200913145202 A 20091202