

Title (en)

Drift tube accelerator for ion bunch acceleration

Title (de)

Driftröhrenbeschleuniger zur Beschleunigung von Ionenpaketen

Title (fr)

Accélérateur à tubes de glissement pour l'accélération de paquets d'ions

Publication

EP 1505855 A3 20090923 (DE)

Application

EP 04015387 A 20040630

Priority

DE 10333454 A 20030722

Abstract (en)

[origin: EP1505855A2] The device has a housing as a 3-part vacuum tank (3) with a center part (4) and upper and lower half-shells (5,6). The removable center part has an axial inlet opening (8) and an outlet opening (9) for ion packets and longitudinal ribs on the inner wall holding drift tube holders for coaxial drift tube pieces. The lower half shell has a structured steel block (15) with a partly flat inner floor on which vacuum leadthroughs (18) are arranged and the upper half shell also has a structured steel block (19) with a partly flat inner cover surface with vacuum leadthroughs.

IPC 8 full level

H05H 7/14 (2006.01); **H05H 7/18** (2006.01); **H05H 7/22** (2006.01); **H05H 9/00** (2006.01)

CPC (source: EP US)

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

Citation (search report)

- [Y] US 3067359 A 19621204 - JACQUES POTTIER
- [Y] US 4885470 A 19891205 - ABBOTT STEVEN R [US]
- [A] US 4404495 A 19830913 - MUELLER ROLF W [DE]
- [A] RATZINGER U ET AL: "Status of the HIF RF linac study based on H-mode cavities", NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH, SECTION - A:ACCELERATORS, SPECTROMETERS, DETECTORS AND ASSOCIATED EQUIPMENT, ELSEVIER, AMSTERDAM, NL, vol. 415, no. 1-2, 21 September 1998 (1998-09-21), pages 229 - 235, XP004166592, ISSN: 0168-9002

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL HR LT LV MK

DOCDB simple family (publication)

EP 1505855 A2 20050209; **EP 1505855 A3 20090923**; **EP 1505855 B1 20170111**; DE 10333454 A1 20050616; DE 10333454 B4 20060713; JP 2005044808 A 20050217; JP 4636468 B2 20110223; US 2005029970 A1 20050210; US 7081723 B2 20060725

DOCDB simple family (application)

EP 04015387 A 20040630; DE 10333454 A 20030722; JP 2004214756 A 20040722; US 88929104 A 20040712