

Title (en)

Cryostatic device with cryocooler and gas slit heat exchanger

Title (de)

Kryostatanordnung mit Kryokühler und Gasspaltwärmeübertrager

Title (fr)

Cryostat avec cryorefroidisseur et échangeur de chaleur du type de fente à gas

Publication

EP 1617157 A3 20120530 (DE)

Application

EP 05014932 A 20050709

Priority

DE 102004034729 A 20040717

Abstract (en)

[origin: EP1617157A2] The vessel has a helium chamber (2) and a radiation shield (8) which is bound to heat deflector (12) at the base of a two-step cooling system head (7) with a narrow gas gap (13) in the cooling tube (4) by which transfer of vibrations from the cooling head is prevented.

IPC 8 full level

F25B 9/14 (2006.01); **F25D 19/00** (2006.01)

CPC (source: EP US)

F25B 9/145 (2013.01 - EP US); **F25D 19/006** (2013.01 - EP US); **F25B 9/10** (2013.01 - EP US); **F25B 2309/1408** (2013.01 - EP US); **F25B 2400/17** (2013.01 - EP US)

Citation (search report)

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- [Y] EP 0780698 A1 19970625 - SPECTROSPIN AG [CH]
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- [A] US 6438966 B1 20020827 - SARWINSKI RAYMOND E [US], et al
- [A] US 5381666 A 19950117 - SAHO NORIHIDE [JP], et al
- [YA] RAVEX A ET AL: "A simple and efficient thermal link assembly for cryocoolers", CRYOGENICS, ELSEVIER, KIDLINGTON, GB, vol. 39, no. 12, 1 December 1999 (1999-12-01), pages 997 - 1001, XP004202473, ISSN: 0011-2275, DOI: 10.1016/S0011-2275(99)00106-X

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US11980182B2; WO2019226437A3

Designated contracting state (EPC)

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

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1617157 A2 20060118; EP 1617157 A3 20120530; DE 102004034729 A1 20060216; DE 102004034729 B4 20061207; JP 2006054444 A 20060223; US 2007051115 A1 20070308

DOCDB simple family (application)

EP 05014932 A 20050709; DE 102004034729 A 20040717; JP 2005205677 A 20050714; US 17142305 A 20050701