

Title (en)

CRYOGENIC FLUID STREAM DISPENSING DEVICE WITH POLYMER JOINT HAVING GIVEN EXPANSION COEFFICIENT

Title (de)

VORRICHTUNG ZUR AUSGABE EINES KRYOGENEN FLÜSSIGKEITSSTROMS MIT POLYMERDICHTMITTEL MIT EINEM BESTIMMTEN DEHNUNGSKOEFFIZIENT

Title (fr)

DISPOSITIF DE DISTRIBUTION DE JETS DE FLUIDE CRYOGÉNIQUE AVEC JOINT EN POLYMÈRE À COEFFICIENT DE DILATATION DONNÉ

Publication

EP 2480378 A2 20120801 (FR)

Application

EP 10773118 A 20100915

Priority

- FR 0956537 A 20090923
- FR 2010051909 W 20100915

Abstract (en)

[origin: WO2011036374A2] The invention relates to a device for dispensing at least one high-pressure cryogenic fluid stream, said device including a movable tool (3), comprising one or more fluid-dispensing nozzles (18) for dispensing one or more high-pressure cryogenic fluid streams, and a line (2, 5) for supplying high-pressure cryogenic fluid from the movable tool (3), said line including a stationary upstream portion (5) and a movable downstream portion (2) that is connected to the movable tool (3), said stationary upstream portion (5) and movable downstream portion (2) being fluidly connected to each other by means of a rotatable system (1) including a rotating joint (20). The rotating joint (20) includes a polymer material having a heat expansion coefficient between 10×10^6 and $160 \times 10^6/K$.

IPC 8 full level

B24C 1/00 (2006.01); **B24C 3/04** (2006.01)

CPC (source: EP US)

B05B 13/0421 (2013.01 - EP US); **B24C 1/003** (2013.01 - EP US); **B24C 3/04** (2013.01 - EP US); **B05B 1/14** (2013.01 - EP US); **B05B 15/65** (2018.01 - EP US)

Citation (search report)

See references of WO 2011036374A2

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 SE SI SK SM TR

DOCDB simple family (publication)

FR 2950271 A1 20110325; **FR 2950271 B1 20111209**; CN 102497958 A 20120613; EP 2480378 A2 20120801; EP 2480378 B1 20140226; JP 2013505148 A 20130214; US 2012171934 A1 20120705; WO 2011036374 A2 20110331; WO 2011036374 A3 20110519

DOCDB simple family (application)

FR 0956537 A 20090923; CN 201080041768 A 20100915; EP 10773118 A 20100915; FR 2010051909 W 20100915; JP 2012530309 A 20100915; US 201013395749 A 20100915