Title (en)

RELATIVELY THICK-WALLED VACUUM-RESISTANT AND PRESSURE-RESISTANT VESSEL

Title (de)

RELATIV DICKWANDIGES VAKUUM- UND DRUCKBESTÄNDIGES GEFÄSS

Title (fr)

ENCEINTE À PAROI DE GRANDE ÉPAISSEUR RELATIVE RÉSISTANT AU VIDE ET À LA PRESSION

Publication

EP 2129457 A2 20091209 (FR)

Application

EP 08775627 A 20080305

Priority

- FR 2008000287 W 20080305
- FR 0701585 A 20070305

Abstract (en)

[origin: WO2008132308A2] The vessel (1) comprises a side wall (2) and an end wall (3), and is characterized in that: a) said end wall (3) is a domed end wall (3'); b) said domed end wall (3') of thickness E_I comprises: b1) a layer (4) called the inner layer C₁ providing corrosion resistance and b2) a layer (5) called the outer layer C_E of thickness E_E at least equal to the thickness E_I of said inner layer C_I (4); c) said inner C_I (4) and outer C_E (5) layers are rigidly joined by a so-called first assembly means (30); and d) said inner layer C_I (4) is formed from a multilayer material comprising an internal layer C_{IC} (40) for providing corrosion resistance and what is called an external layer C_{IS} (41), said internal C_{IC} (40) and external C_{IS} (41) layers being rigidly joined by a so-called second assembly means (42). Advantages: possibility of manufacturing large vessels inexpensively.

IPC 8 full level

B01J 3/00 (2006.01); **B01J 19/02** (2006.01); **G21C 13/087** (2006.01)

CPC (source: EP US)

B01J 3/006 (2013.01 - EP US); **B01J 3/048** (2013.01 - EP US); **B01J 19/02** (2013.01 - EP US); **B23K 31/02** (2013.01 - EP US); **G21C 13/087** (2013.01 - EP US); B01J 2219/00015 (2013.01 - EP US); B01J 2219/0236 (2013.01 - EP US); B01J 2219/0286 (2013.01 - EP US); B01J 2219/1943 (2013.01 - EP US); B23K 2101/12 (2018.07 - EP US); Y02E 30/30 (2013.01 - EP US); Y10T 29/49826 (2015.01 - EP US)

Citation (search report)

See references of WO 2008132308A2

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 MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

FR 2913352 A1 20080912; **FR 2913352 B1 20101112**; CN 101678294 A 20100324; EP 2129457 A2 20091209; US 2010092348 A1 20100415; WO 2008132308 A2 20081106; WO 2008132308 A3 20090108

DOCDB simple family (application)

FR 0701585 A 20070305; CN 200880013096 A 20080305; EP 08775627 A 20080305; FR 2008000287 W 20080305; US 52981408 A 20080305