

Title (en)
Stiffened turbo pump casing

Title (de)
Versteiftes Turbopumpengehäuse

Title (fr)
Carter de turbopompe rigidifié

Publication
EP 2375006 A1 20111012 (FR)

Application
EP 11160236 A 20110329

Priority
FR 1052337 A 20100330

Abstract (en)
The casing has two parts with different diameters, where the part with large diameter is provided with a mounting flange (16). A portion (25) of an annular wall extends between the mounting flange and the part with smaller diameter (23) with an annular curved form with its convexity directed toward interior of the casing. An annular web (29) extends in parallel and at distance from the portion of the wall between the flange and the part with smaller diameter. The web comprises multiple openings (34) that are regularly and circumferentially arranged.

Abstract (fr)
Perfectionnement à un carter de turbopompe permettant de réduire les déformations et sollicitations mécaniques s'exerçant sur celui-ci. Le carter à paroi globalement annulaire (11) comporte une partie de plus grand diamètre comprenant une bride de fixation (16) et la portion (25) de la paroi d'étendant entre la bride (16) et la partie de plus petit diamètre (23) a une forme incurvée annulairement avec sa convexité orientée vers l'intérieur.

IPC 8 full level
F04D 29/52 (2006.01); **F01D 25/24** (2006.01)

CPC (source: EP)
F01D 25/24 (2013.01); **F04D 29/528** (2013.01); **F05D 2250/711** (2013.01)

Citation (search report)

- [X] EP 0442070 A1 19910821 - EBARA CORP [JP]
- [X] EP 0406868 A2 19910109 - EBARA CORP [JP]
- [X] FR 2698661 A1 19940603 - EUROP PROPULSION [FR]
- [A] FR 2933150 A1 20100101 - SNECMA [FR]
- [A] US 5184945 A 19930209 - CHI-WEI SHI [TW]
- [A] GB 897907 A 19620530 - SULZER AG
- [A] EP 0413176 A2 19910220 - CARRETTA TIZIANO [IT]
- [A] US 4786238 A 19881122 - GLASER JERRY [US], et al
- [A] US 4775295 A 19881004 - STARKE JOERG [DE], et al
- [A] EP 0379196 A2 19900725 - EBARA CORP [JP]
- [A] WO 2009065881 A1 20090528 - MANN & HUMMEL GMBH [DE], et al
- [A] US 4720242 A 19880119 - LOVISETTO PRIMO [IT]

Designated contracting state (EPC)
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