

Title (en)

Booster pump and feeder for low-temperature-fluid comprising the same

Title (de)

Boosterpumpe und Zulaufvorrichtung für Tieftemperaturfluide mit solch einer Pumpe

Title (fr)

Pompe booster et moyens d'amener pour fluides à température basse comprenant une telle pompe

Publication

EP 2071190 A1 20090617 (EN)

Application

EP 09157231 A 20050628

Priority

- EP 05755797 A 20050628
- JP 2004194641 A 20040630
- JP 2004302048 A 20041015
- JP 2004377938 A 20041227
- JP 2005003993 A 20050111

Abstract (en)

A low-temperature-fluid boosting pump (101) comprising a cylinder block (123) in which a cylinder (126) is formed, a piston rod (122) arranged to be driven by a drive unit (111) that can be connected to a driving source, and a piston head (125) that is connected to the piston rod (122) and is reciprocally accommodated in a compression chamber (126a) of the cylinder (126), thereby being able to compress in operation a low-temperature fluid by one end surface of the piston head (125). The drive unit (111) is disposed on the side of the one end surface of the piston head (125) such that a shank of the piston rod (122) is subjected to a tensile force in a direction in which the shank extends when the piston rod (122) is driven to compress the low-temperature fluid.

IPC 8 full level

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Citation (applicant)

TAKUYA ENDO ET AL.: "Shin Enerugii Jidousha", SANKAIDO, January 1995 (1995-01-01), pages 221 - 222

Citation (search report)

- [X] JP S53107306 U 19780829
- [X] US 3456595 A 19690722 - GOTTSMANN CHRISTIAN F, et al
- [X] GB 535977 A 19410429 - HARRY DA COSTA, et al
- [A] US 5511955 A 19960430 - BROWN BRUCE G [US], et al
- [A] US 4156584 A 19790529 - SCHUCK THOMAS W [US]

Designated contracting state (EPC)

DE FR

DOCDB simple family (publication)

EP 1767783 A1 20070328; **EP 1767783 A4 20080730**; **EP 1767783 B1 20100421**; DE 602005020794 D1 20100602; EP 2071190 A1 20090617; EP 2071190 B1 20120926; JP WO2006003871 A1 20080417; US 2009165640 A1 20090702; WO 2006003871 A1 20060112

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