

Title (en)

Submerged pumping system with multi-strand cable.

Title (de)

Tauchpumpenanlage mit einem aus mehreren Drähten bestehenden Kabel.

Title (fr)

Système de pompage submersible avec câble multi-fils.

Publication

**EP 0208035 A1 19870114 (EN)**

Application

**EP 85305757 A 19850814**

Priority

US 74173185 A 19850605

Abstract (en)

A submersible pumping system is disclosed for pumping cryogenic liquid from a reservoir (1) in which an electrically powered motor/pump unit (34/32) is located in an operative position at the bottom of a fluid transmitting casing (14) in the reservoir (1). The motor/pump unit (34/32) is electrically connected to a power source and to ground by means of flexible electrical and ground conduits (62/64), and is raised and lowered through the casing by means of support (56) and lift cables (76). The flexible conduits (62/64) and support cable (56) are arranged within a flexible sheath (60) to thereby provide a multi-strand cable which is separated from the lift cable (76) by detachable brackets (80).

IPC 1-7

**B67D 5/50**; **F04D 29/60**; **H01B 7/04**

IPC 8 full level

**F04B 47/06** (2006.01); **B67D 7/68** (2010.01); **F04D 29/60** (2006.01); **H01B 7/04** (2006.01)

CPC (source: EP KR)

**B67D 7/68** (2013.01 - EP); **F04D 13/00** (2013.01 - KR); **F04D 29/607** (2013.01 - EP); **H01B 7/046** (2013.01 - EP); **F17C 2223/0161** (2013.01 - EP); **F17C 2227/0178** (2013.01 - EP)

Citation (search report)

- [AD] US 3876120 A 19750408 - HAESLOOP WILLIAM G, et al
- [AD] US RE31445 E 19831122 - CARTER JAMES C [US]
- [A] GB 2085078 A 19820421 - ITT
- [A] FR 2337842 A1 19770805 - ITT [US]
- [A] US 2268223 A 19411230 - PETERSON THOMAS F
- [A] GB 474054 A 19371025 - WALTER TODD WELLS
- [A] GB 251960 A 19260916 - SIEMENS SCHUCKERTWERKE GMBH

Cited by

CN111486335A; GB2224777A; GB2224777B; EP1102374A3; EP3601724A4; WO2015077784A1; US8517700B2; US9551330B2; WO2018183584A1; US10125751B2; WO2010085204A1

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DOCDB simple family (application)

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