

Title (en)
CRYOGENIC CONDENSATION PUMP

Publication
EP 0347473 B1 19920219 (DE)

Application
EP 89901554 A 19881207

Priority
• SU 4360458 A 19880108
• SU 8800254 W 19881207

Abstract (en)
[origin: WO8906317A1] A cryogenic condensation pump comprises a casing (1) inside which are mounted a reservoir (3) for the cryogenic agent-liquid nitrogen, a heat-carrying envelope (4) and a herring-bone screen (5) all together forming a radiation screen (3, 4, 5), and a pumping-out element (6). The reservoir (3) for the cryogenic agent and the pumping-out element (6) are provided with suspension tubes (9) and (10), respectively. Each suspension tube (9, 10) is provided, respectively, with units (11-a) and (11-b) for its fastening to the casing (1), and with units (12-a) and (12-b) for its fastening, respectively, to the reservoir (3) for the cryogenic agent and to the pumping-out element (6). The suspension tube (10) of the pumping-out element (6) is provided with a supporting bushing (37), whereas in the cap (7) of the reservoir (3) for the cryogenic agent is fixed an annular element (38) contacting with the supporting bushing (37). The casing (1) of the pump, the radiation screen (3, 4, 5) and the pumping-out element (6) are made of light metals.

IPC 1-7
F04B 37/08

IPC 8 full level
F04B 37/08 (2006.01)

CPC (source: EP US)
F04B 37/08 (2013.01 - EP US); **Y10S 417/901** (2013.01 - EP US)

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
WO 8906317 A1 19890713; AU 3034189 A 19890801; AU 618786 B2 19920109; DE 3868509 D1 19920326; EP 0347473 A1 19891227; EP 0347473 A4 19900108; EP 0347473 B1 19920219; JP H02502936 A 19900913; PL 160317 B1 19930226; PL 277118 A1 19890904; SU 1698482 A1 19911215; US 4976111 A 19901211

DOCDB simple family (application)
SU 8800254 W 19881207; AU 3034188 A 19881207; AU 3034189 A 19891207; DE 3868509 T 19881207; EP 89901554 A 19881207; JP 50176089 A 19881207; PL 27711889 A 19890109; SU 4360458 A 19880108; US 41529589 A 19890907