

Title (en)

Submersible pump device, especially for the fuel supply of a burner.

Title (de)

Flüssigkeitspumpenvorrichtung, insbesondere für die Brennstoffzufuhr eines Brenners.

Title (fr)

Dispositif à pompe immergée, notamment pour l'alimentation d'un brûleur en combustible.

Publication

EP 0113278 A1 19840711 (FR)

Application

EP 83402462 A 19831219

Priority

FR 8222104 A 19821230

Abstract (en)

1. An arrangement for supplying a receiving member with liquid originating from a supply chamber comprising : - a blind body (19) prevented from rotation and mounted so as to be able to slide on a rotatable driving shaft (16) ; - a cam mechanism (16A, 19A) disposed between the body and the shaft to produce, in co-operation with a spring acting on the body, an alternating movement of low amplitude of the body on the shaft, in response to the rotation of the shaft ; - the blind body (19) and the shaft defining between them a pumping cavity (24), the volume of which varies as a result of the action of the cam mechanism when the shaft rotates, and which communicates with a port (23) provided on the shaft, said port (23), when the shaft rotates, being alternately positioned in relation with a suction opening (21), and a delivery opening (22), made in the blind body, characterised in that it comprises a supply chamber (18), connected with the suction opening (21), and in which the blind body (19) is housed, while a seal (25) is mounted between the rotatable shaft and a fixed wall (26) of the supply chamber, and in that the delivery opening (22) is connected to a manifold (31, 32) ending outside the supply chamber.

Abstract (fr)

Le dispositif d'alimentation comprend une chambre d'alimentation (18), montée sur un arbre moteur (16), avec interposition d'un joint (25) et/ou (25A). Un corps borgne (19) est monté glissant sur l'arbre (16). Il forme avec lui une pompe dont l'orifice d'entrée (21) communique avec l'intérieur de la chambre, et dont l'orifice de sortie (22) est relié à une tubulure (32) allant par exemple vers un brûleur.

IPC 1-7

F04B 7/06; **F02M 37/20**; **F23K 5/00**

IPC 8 full level

F02M 37/04 (2006.01); **F02M 37/20** (2006.01); **F04B 7/06** (2006.01); **F23K 5/00** (2006.01); **F23K 5/14** (2006.01)

CPC (source: EP)

F02M 37/043 (2013.01); **F04B 7/06** (2013.01); **F23K 5/142** (2013.01)

Citation (search report)

- FR 2448054 A1 19800829 - FONDERIE SOC GEN DE
- DE 559650 C 19320922 - CHARLES PERDRISAT
- US 1577622 A 19260323 - GASTON RALPH M
- FR 1579801 A 19690829
- DE 1528395 A1 19700702

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0113278 A1 19840711; **EP 0113278 B1 19861015**; AT E22968 T1 19861115; DE 3367000 D1 19861120; FR 2538861 A1 19840706; FR 2538861 B1 19850524

DOCDB simple family (application)

EP 83402462 A 19831219; AT 83402462 T 19831219; DE 3367000 T 19831219; FR 8222104 A 19821230