

Title (en)

Self-priming jet pump with flow control device

Title (de)

Selbstansaugende Strahlpumpe mit Durchflusskontrollvorrichtung

Title (fr)

Pompe à jet autoamorçante avec dispositif de contrôle de l'écoulement

Publication

EP 0936356 A1 19990818 (EN)

Application

EP 99102657 A 19990212

Priority

IT VI980028 A 19980213

Abstract (en)

The invention concerns a single-impeller centrifugal self-priming jet pump (1, 100, 101, 102, 103, 104, 105, 106) including a diffuser provided with a return channel (9, 90, 91, 92, 93, 94, 95, 96) placed between a wall (10, 107, 109, 210) adjacent to the suction side of the impeller (6, 60, 61, 62, 63, 64, 65) and another wall (12, 120, 121, 122, 126) provided with at least one outlet (13, 130, 131, 132, 133, 134, 135, 136) in the central part of the pressure chamber (3, 30, 31, 32, 33, 34, 35, 36). Said pump is provided with at least one deflector (15, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 215, 315), placed beyond said outlet of said return channel, suitable for distributing the fluid toward different directions (16-17, 160-170, 161, 171, 162-172, 163-173, 164-174, 165-175, 167-177, 166-176-178) in said pressure chamber. <IMAGE>

IPC 1-7

F04D 9/06; **F04D 29/44**

IPC 8 full level

F04D 9/06 (2006.01); **F04D 29/44** (2006.01)

CPC (source: EP)

F04D 9/06 (2013.01); **F04D 29/445** (2013.01)

Citation (applicant)

- EP 0361328 A1 19900404 - CALPEDA A SPA [IT]
- EP 0401670 A2 19901212 - NOWAX SRL [IT]
- US 5100289 A 19920331 - CAODURO BRUNO [IT]

Citation (search report)

- [DA] EP 0401670 A2 19901212 - NOWAX SRL [IT]
- [A] DE 2249883 A1 19730530 - NOVEX CO LTD
- [DA] EP 0361328 A1 19900404 - CALPEDA A SPA [IT]
- [A] EP 0460597 A2 19911211 - CALPEDA A SPA [IT]

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CN107820544A; CN106939904A; EP1178214A1; CN112648242A; EP1219838A3; CN111486128A; US10634145B2; US6168376B1; WO2016198334A1; WO2018045606A1

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