

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 B1 20030709 (EN)

Application
EP 99102657 A 19990212

Priority
IT VI980028 A 19980213

Abstract (en)
[origin: EP0936356A1] 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)

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

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IE IT LI NL PT SE

DOCDB simple family (publication)
EP 0936356 A1 19990818; **EP 0936356 B1 20030709**; **EP 0936356 B9 20031029**; AT E244824 T1 20030715; DE 69909347 D1 20030814; DE 69909347 T2 20040415; DE 69909347 T4 20040909; ES 2204009 T3 20040416; IT VI980028 A1 19990813

DOCDB simple family (application)
EP 99102657 A 19990212; AT 99102657 T 19990212; DE 69909347 A 19990212; DE 69909347 T 19990212; ES 99102657 T 19990212; IT VI980028 A 19980213