

Title (en)
Ejector

Title (de)
Saugstrahlpumpe

Title (fr)
Pompe à jet

Publication
EP 0889244 A2 19990107 (EN)

Application
EP 98305146 A 19980629

Priority
GB 9713822 A 19970630

Abstract (en)
An ejector for mixing and ejecting two or more fluids comprises a nozzle (2) having a generally conical outer surface (4); a first fluid inlet (5) through which a first fluid is supplied to the nozzle (2) under pressure; a throttle (8) for controlling the cross-sectional area of the outlet of the nozzle (2); an ejector throat (9) having a generally conical inner surface which surrounds and is downstream of the generally conical outer surface (4) of the nozzle (2); and, a second fluid inlet (10) through which a second fluid is supplied in communication with the ejector throat (9). The first fluid is jetted through the nozzle (2) into the ejector throat (9) and draws the second fluid into the ejector throat (9) from where the first and second fluids are ejected. With this arrangement, the flow rate of the jetted fluid through the nozzle can be controlled by varying the cross-sectional area of the opening of the nozzle (2) using the throttle (8) without reducing the velocity of the jet of the first fluid. <IMAGE>

IPC 1-7
F04F 5/10; **F04F 5/46**

IPC 8 full level
F04F 5/10 (2006.01); **F04F 5/46** (2006.01)

CPC (source: EP)
F04F 5/10 (2013.01); **F04F 5/461** (2013.01)

Cited by
US7111975B2; US7416326B2; EP1998053A3; CN105855084A; NL2019951B1; US2010020631A1; US8322910B2; US2013010569A1; US10704813B2; US9931648B2; US7334427B2; US10507480B2; WO2014173075A1; WO2013185164A1; WO2019103608A1

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

DOCDB simple family (publication)
EP 0889244 A2 19990107; **EP 0889244 A3 19990825**; GB 9713822 D0 19970903

DOCDB simple family (application)
EP 98305146 A 19980629; GB 9713822 A 19970630