

Title (en)  
Fluid pump

Title (de)  
Flüssigkeitspumpe

Title (fr)  
Pompe à liquide

Publication  
**EP 1217210 B1 20050615 (EN)**

Application  
**EP 01127080 A 20011114**

Priority  
• JP 2000389001 A 20001221  
• JP 2001256391 A 20010827

Abstract (en)  
[origin: EP1217210A2] It is an object of the present invention to provide a fluid suction and discharge device capable of continuously discharging fluid with a predetermined flow rate and pressure continuously sucking the fluid without substantially giving rise to pulsation. <??>The invention comprises an inner tube (1) rotatably fitted in a fitting hole of the device body, a cylinder (5) slidably fitted into the inner tube (1), and a plurality of through-holes formed in the inner tube (1), wherein when the cylinder (5) is reciprocated in association with rotation of the inner tube (1), and when one of the through-holes of the inner tube (1) is communicated with a suction hole of the device body, the other through-hole of the inner tube is communicated with a discharge hole of the device body, and when fluid is sucked from a communication suction hole thus communicated, fluid is discharged from the discharge hole thus communicated. <IMAGE>

IPC 1-7  
**F04B 7/00**; **F04B 7/06**

IPC 8 full level  
**F04B 35/00** (2006.01); **F04B 7/00** (2006.01)

CPC (source: EP KR)  
**F04B 7/0007** (2013.01 - EP); **F04B 7/008** (2013.01 - EP); **F04B 35/00** (2013.01 - KR)

Designated contracting state (EPC)  
CH DE FR GB IT LI NL

DOCDB simple family (publication)  
**EP 1217210 A2 20020626**; **EP 1217210 A3 20031029**; **EP 1217210 B1 20050615**; DE 60111482 D1 20050721; DE 60111482 T2 20060511; HK 1047612 A1 20030228; KR 100457278 B1 20041116; KR 20020052143 A 20020702

DOCDB simple family (application)  
**EP 01127080 A 20011114**; DE 60111482 T 20011114; HK 02108648 A 20021129; KR 20010073175 A 20011123