

Title (en)  
Centrifugal pump unit

Title (de)  
Kreispumpenaggregat

Title (fr)  
Ensemble de pompe centrifuge

Publication  
**EP 1041595 B2 20110831 (DE)**

Application  
**EP 00106498 A 20000325**

Priority  
DE 19914581 A 19990331

Abstract (en)  
[origin: EP1041595A2] The pump unit has a flow monitor (10) contained within the flow path (9) of the pumped liquid within the pump housing (6) an provided by an electromagnetic switching device (14) and a 2-armed lever (16) with one lever arm (18) projecting into the flow p and the other lever arm (19) carrying a magnet (20) for operation of the switching device. The latter is positioned within a terminal housing (11) fitted to the electric motor housing (1), at least the part of the lever arm carrying the magnet enclosed separate hermetically sealed monitor housing (21).

IPC 8 full level  
**H01H 37/40** (2006.01); **H01H 35/40** (2006.01)

CPC (source: EP US)  
**F04D 15/0209** (2013.01 - EP US); **F04D 15/0227** (2013.01 - EP US); **H01H 35/405** (2013.01 - EP US)

Citation (opposition)  
Opponent :

- DE 3780093 T2 19930121 - PEKTRON LTD [GB]
- US 4499347 A 19850212 - RICHARDS GARY H [US]
- GB 2247920 A 19920318 - WHITBREAD AND COMPANY PUBLIC L [GB]
- GB 1545447 A 19790510 - PEKTRON LTD
- GB 2173344 A 19861008 - POWERED SHOWER SYSTEMS LIMITED

Cited by  
EP2808547A1; US10294996B2; EP1217217A1; WO2014191169A3

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 1041595 A2 20001004; EP 1041595 A3 20020213; EP 1041595 B1 20041013; EP 1041595 B2 20110831**; AR 022941 A1 20020904; CN 1133012 C 20031231; CN 1270280 A 20001018; DE 19914581 A1 20001012; DE 50008180 D1 20041118; HK 1031414 A1 20010615; TW 440656 B 20010616; US 6273684 B1 20010814

DOCDB simple family (application)  
**EP 00106498 A 20000325**; AR P000101154 A 20000315; CN 00104949 A 20000328; DE 19914581 A 19990331; DE 50008180 T 20000325; HK 01102107 A 20010323; TW 89105108 A 20000321; US 52562200 A 20000314