

Title (en)  
Circulation pump with valve arrangement

Title (de)  
Umwälzpumpe mit Ventileinrichtung

Title (fr)  
Pompe de circulation avec dispositif de soupape

Publication  
**EP 1471260 A3 20050914 (DE)**

Application  
**EP 04003128 A 20040212**

Priority  
• DE 10318701 A 20030424  
• DE 10331973 A 20030714

Abstract (en)  
[origin: EP1471260A2] The recirculating pump (1) and especially for a heating system, with a valve (13) which alters the cross section of the inflow opening according to temperature, has a control unit (14) within the pump housing (2) to set the valve. The control unit and the valve are at opposite sides of the pump motor (3,4). The valve setting unit (15) is at the valve setting rod (17) which is coaxially through the motor shaft (7). The control unit has a fluid-filled expansion vessel (19).

IPC 1-7  
**F04D 15/00**

IPC 8 full level  
**F04D 15/00** (2006.01)

CPC (source: EP)  
**F04D 15/0022** (2013.01)

Citation (search report)  
• [X] GB 191324516 A 19140730 - TAYLOR JOHN, et al  
• [X] US 4643635 A 19870217 - LEACHMAN JR FRANK A [US]  
• [X] DE 1056877 B 19590506 - DOWTY FUEL SYST LTD  
• [X] EP 0148583 A1 19850717 - LUCAS IND PLC [GB]

Cited by  
EP3431767A1; WO2017097611A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1471260 A2 20041027; EP 1471260 A3 20050914; EP 1471260 B1 20070905**; DE 502004004841 D1 20071018

DOCDB simple family (application)  
**EP 04003128 A 20040212**; DE 502004004841 T 20040212