

Title (en)

Pump, in particular centrifugal circulating pump for household appliances using water

Title (de)

Pumpe, insbesondere Kreiselpumpe als Umwälzpumpe für wasserführende Haushaltsgeräte

Title (fr)

Pompe, en particulier pompe centrifuge de circulation pour appareils ménagers utilisant de l'eau

Publication

EP 1247993 A3 20030115 (DE)

Application

EP 02005593 A 20020312

Priority

DE 10116671 A 20010404

Abstract (en)

[origin: EP1247993A2] Pump has a pump housing (3) with a pump chamber (11) arranged in a rotationally symmetric manner about an impeller (6). A diffuser chamber (13) is arranged downstream from the impeller chamber to change a part of the flow speed into pressure. Downstream from the diffuser is a pressure chamber (14) in which the flow is calmed prior to delivery to a number of pressure branches (5, 5') which branch off from the chamber. A heater (2) is contained within the pressure chamber.

IPC 1-7

F04D 29/58

IPC 8 full level

A47L 15/42 (2006.01); **D06F 39/04** (2006.01); **D06F 39/08** (2006.01); **F04D 29/42** (2006.01); **F04D 29/58** (2006.01)

CPC (source: EP US)

A47L 15/4225 (2013.01 - EP); **A47L 15/4285** (2013.01 - EP); **D06F 39/04** (2013.01 - EP US); **D06F 39/085** (2013.01 - EP US); **F04D 29/426** (2013.01 - EP); **F04D 29/588** (2013.01 - EP US)

Citation (search report)

- [X] US 4594500 A 19860610 - WRIGHT MURRAY J [NZ]
- [X] US 5701388 A 19971223 - STEINHARDT MICHAEL D [US], et al
- [A] DE 3640252 A1 19880616 - MARCANT PUMPEN GMBH [DE]
- [A] DE 19858137 A1 20000621 - BSH BOSCH SIEMENS HAUSGERAETE [DE]
- [A] DE 19903951 A1 20000803 - EICHENAUER GMBH & CO KG F [DE]
- [DA] DE 19852569 A1 20000518 - MIELE & CIE [DE]

Cited by

US2017027405A1; EP2937571A1; EP1762169A3; EP1650440A1; EP2677178A3; EP1870508A3; CN104706292A; CN111706520A; EP4071361A4; GB2427437A; GB2427437B; CN105020180A; CN108518358A; CN108518359A; CN108518360A; US7965928B2; US9297553B2; US10302098B2; US9145901B2; US10052010B2; US10398283B2; WO2017101086A1; WO2019041690A1; WO2013131847A1; DE102017108349A1; DE102017108349B4; US9470242B2; EP3134653A4; EP4033107A1; US9713413B2; US10058229B2; US10213085B2; US10602907B2; US10602905B2

Designated contracting state (EPC)

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EP 1247993 A2 20021009; **EP 1247993 A3 20030115**; **EP 1247993 B1 20090304**; AT E424511 T1 20090315; DE 10116671 A1 20021017; DE 10116671 B4 20060427; DE 50213324 D1 20090416; ES 2320417 T3 20090522

DOCDB simple family (application)

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