

Title (en)
Integrated washing machine pump

Title (de)
Integrierte Waschmaschinepumpe

Title (fr)
Pompe de machine à laver intégrée à celle-ci.

Publication
EP 1783263 A3 20080507 (EN)

Application
EP 06022868 A 20061102

Priority
• NZ 54342705 A 20051104
• NZ 54342805 A 20051104

Abstract (en)
[origin: EP1783263A2] A drain pump (and/or recirculating pump) for a clothes washing machine which has no dynamic leak paths exterior to the washing machine outer bowl (1, 20). The pump (19) is contained within a housing (3/9, 25) which is either formed integrally with the outer bowl or connects directly within an aperture provided in the bottom of the bowl using a single static seal. The pump inlet is directly exposed to the interior of the outer bowl. The pump motor (5, 64) has a rotor (4, 29) mounted within the pump housing with the interconnected pump impeller (8, 27) to obviate the need for a dynamic water seal for the rotor drive shaft (7,31). The rotor can run wet. The stator (6, 35) is mounted outside of the housing such that the housing wall (14, 28) lies in the motor air gap. The motor is preferably a brushless dc motor.

IPC 8 full level
D06F 39/08 (2006.01)

CPC (source: EP US)
D06F 39/085 (2013.01 - EP US); **D06F 2103/42** (2020.02 - EP US); **D06F 2103/48** (2020.02 - EP US)

Citation (search report)
• [X] DE 3802890 A1 19890810 - BOSCH SIEMENS HAUSGERAETE [DE]
• [X] EP 0287984 A2 19881026 - ASKOLL SRL [IT]
• [X] EP 1061261 A1 20001220 - LG ELECTRONICS INC [KR]
• [A] JP 2003214377 A 20030730 - NIDEC SHIBAURA CORP

Cited by
US8528369B2; US10294601B2; WO2017039375A1

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

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
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DOCDB simple family (application)
EP 06022868 A 20061102; AU 2006235808 A 20061102; CA 2628450 A 20061102; NZ 2006000281 W 20061102