

Title (en)  
Centrifugal pump with integral heating element

Title (de)  
Kreispumpe mit integrierter Heizung

Title (fr)  
Pompe centrifuge avec élément chauffant intégré

Publication  
**EP 1571347 A3 20081224 (DE)**

Application  
**EP 05004094 A 20050225**

Priority  
DE 102004011365 A 20040305

Abstract (en)  
[origin: US2005201878A1] A centrifugal pump ( 1 ) is proposed, in particular for household appliances, such as washing machines or dishwashers, which comprises a pump housing ( 2 ) having an axial inlet ( 11 ), an outlet ( 12 ) and a heating element, wherein the pump housing ( 2 ) incorporates a rotatably mounted impeller ( 4 ) and a flow channel ( 15 ) enveloping the impeller ( 4 ) and heating element. The centrifugal pump ( 1 ) according to the invention is intended to have improved efficiency. This is achieved by having the flow cross-section of the flow channel ( 15 ) increase along the periphery toward the outlet ( 12 ).

IPC 8 full level  
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**A47L 15/4225** (2013.01 - EP US); **A47L 15/4285** (2013.01 - EP US); **D06F 39/04** (2013.01 - EP US); **F04D 29/426** (2013.01 - EP US); **F04D 29/586** (2013.01 - EP US); **F04D 29/588** (2013.01 - EP US)

Citation (search report)

- [X] WO 9619672 A1 19960627 - KOHLER CO [US]
- [X] DE 19858137 A1 20000621 - BSH BOSCH SIEMENS HAUSGERAETE [DE]
- [A] DE 10142525 A1 20030327 - MIELE & CIE [DE]

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CN101725569A

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 MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR LV MK YU

DOCDB simple family (publication)  
**US 2005201878 A1 20050915; US 7293958 B2 20071113**; CN 1727695 A 20060201; CN 1727696 A 20060201; DE 102004011365 A1 20050922; EP 1571347 A2 20050907; EP 1571347 A3 20081224

DOCDB simple family (application)  
**US 7117705 A 20050304**; CN 200510092259 A 20050304; CN 200510092260 A 20050304; DE 102004011365 A 20040305; EP 05004094 A 20050225