

Title (en)
Centrifugal pump for washing apparatus

Title (de)
Kreispumpe für Waschmaschinen

Title (fr)
Pompe centrifuge pour machine à laver

Publication
EP 1557566 A1 20050727 (EN)

Application
EP 04001620 A 20040126

Priority
EP 04001620 A 20040126

Abstract (en)
A pump (1) of the present invention includes a circular stator (10) at the outside of a peripheral wall of a casing (41). A pump chamber (20) is formed inside the casing (41). Furthermore, a circular rotor magnet (24) is arranged inside the casing that faces with the stator (10) in the radial direction with a radial gap, and a peripheral wall of the casing (41) is located in between the radial gap. The rotor magnet (24) is fixed to an impeller (27) integrally and is supported in the pump chamber (20) in a rotatable manner. An end of the casing (41) is opened so as to form an inlet (21) that communicates with the pump chamber (20). In addition, the other end of the casing (41) is sealed with a bottom plate (42). A part of the peripheral wall that is close to the sealed end of the casing (41) is opened and connected to a delivery pipe (45) so as to open to an outlet (22). Thus, a small size, a low cost and a long life of the pump (1) are achieved. In addition, the pump (1) having this structure is used for a washing apparatus, e.g., a dishwasher (2) so that the entire apparatus can be realized with a small size and a low cost. <IMAGE>

IPC 1-7
F04D 13/06

IPC 8 full level
F04D 13/06 (2006.01); **F04D 29/42** (2006.01)

CPC (source: EP)
F04D 13/064 (2013.01); **F04D 13/0646** (2013.01); **F04D 29/426** (2013.01)

Citation (search report)
• [XY] US 2001004435 A1 20010621 - WOODARD JOHN CAMPBELL [AU], et al
• [Y] EP 1227247 A2 20020731 - SOLE SPA [IT]
• [X] US 6220832 B1 20010424 - SCHOEB RETO [CH]
• [A] EP 0287984 A2 19881026 - ASKOLL SRL [IT]

Cited by
DE102009023188A1; CN104040183A; EP2800904A4; DE102009023188B4; EP2273123B1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 1557566 A1 20050727; EP 1557566 B1 20070314; DE 602004005297 D1 20070426; DE 602004005297 T2 20071220

DOCDB simple family (application)
EP 04001620 A 20040126; DE 602004005297 T 20040126