

Title (en)  
Washing machine with improved synchronous motor

Title (de)  
Waschmaschine mit Synchronmotor

Title (fr)  
Machine à laver avec moteur synchrone

Publication  
**EP 1428926 A3 20070124 (EN)**

Application  
**EP 03023702 A 20031020**

Priority  
IT PN20020096 A 20021210

Abstract (en)  
[origin: EP1428926A2] A washing machine is provided with a drain pump comprising a synchronous motor and an impeller (2); the shaft (1) of the motor is provided with an appropriate flywheel (33) and has an eccentric protrusion (4) at the extremity thereof, and said impeller, in its central zone where it is fitted onto said shaft, is provided with a ring-shaped (5) cavity extending circularly only along a definite arc portion (A) and adapted to accommodate said eccentric protrusion. This eccentric protrusion is in turn so sized with respect to said cavity as to be capable of freely rotating for a pre-definable arc (B) within said cavity.

IPC 8 full level  
**D06F 39/08** (2006.01)

CPC (source: EP US)  
**D06F 39/085** (2013.01 - EP US); **F04D 29/20** (2013.01 - EP); **D06F 2103/48** (2020.02 - EP US)

Citation (search report)

- [A] EP 0287984 A2 19881026 - ASKOLL SRL [IT]
- [A] WO 9948189 A1 19990923 - ASKOLL HOLDING SRL [IT], et al
- [A] US 2002122731 A1 20020905 - MARIONI ELIO [IT]
- [A] EP 1061261 A1 20001220 - LG ELECTRONICS INC [KR]

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EP1883148A1; EP2292137A1; ITTO20090566A1

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

Designated extension state (EPC)  
AL LT LV MK

DOCDB simple family (publication)  
**EP 1428926 A2 20040616; EP 1428926 A3 20070124; EP 1428926 B1 20080130**; AT E385269 T1 20080215; DE 60318932 D1 20080320; DE 60318932 T2 20090129; ES 2297086 T3 20080501; IT PN20020096 A1 20040611

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