

Title (en)
AUTOMATICALLY CONTROLLED WASHING MACHINE WITH OVERFLOW SAFETY SYSTEM

Title (de)
AUTOMATISCH GESTEUERTE WASCHMASCHINE MIT ÜBERLAUFSICHERUNG

Title (fr)
LAVE-LINGE A COMMANDE AUTOMATIQUE EQUIPE D'UN SYSTEME ANTIDEBORDEMENT

Publication
EP 1604058 A1 20051214 (DE)

Application
EP 00984989 A 20001108

Priority
• EP 0011040 W 20001108
• DE 19960265 A 19991214

Abstract (en)
[origin: WO0144557A1] The invention relates to an automatically controlled washing machine (17) comprising at least one fresh water conduit (5) and a soapy water circulation system (16) which evacuates the soapy water from the base of a washing treatment chamber (1) and resupplies said water to the washing treatment chamber (1) from above, through a supply inlet (13) via a circulation conduit (9) using a circulation pump (10). The supply inlet (13) is configured in such a way that during the operation of the pump, a dynamic pressure is produced in the recirculation conduit (9) which is completely filled. The soapy water circulation system (16) also has a sensor device (12) which is located on the delivery side of the circulation pump (10), is sensitive to the dynamic pressure which has been produced and transmits a signal to a control device (8) of the washing machine (17) for controlling a fresh water supply valve (5), depending on the dynamic pressure. The invention aims, in a simple and cost-effective manner, to prevent the washing machine (17) from overflowing and to ensure that it can be serviced easily. To this end, the sensor device (12) also recognises a static pressure which is produced in the washing treatment chamber (1) and consequently in the circulation conduit (9) when the circulation pump (10) is switched off. Said device also transmits a signal to the control device (8) for executing safety measures, if the static pressure exceeds a predeterminable safety level.

IPC 1-7
D06F 39/08

IPC 8 full level
D06F 33/02 (2006.01); **D06F 25/00** (2006.01); **D06F 39/08** (2006.01)

CPC (source: EP KR US)
D06F 33/47 (2020.02 - EP KR US); **D06F 39/083** (2013.01 - EP KR US); **D06F 39/087** (2013.01 - KR); **D06F 39/088** (2013.01 - KR); **G08B 21/182** (2013.01 - KR)

Citation (search report)
See references of WO 0144557A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0144557 A1 20010621; DE 19960265 A1 20010621; DE 19960265 B4 20070412; EP 1604058 A1 20051214; JP 2003516837 A 20030520; KR 100734674 B1 20070702; KR 20020062969 A 20020731; US 2002178764 A1 20021205; US 6698254 B2 20040302

DOCDB simple family (application)
EP 0011040 W 20001108; DE 19960265 A 19991214; EP 00984989 A 20001108; JP 2001545632 A 20001108; KR 20027007567 A 20020614; US 17169602 A 20020614