

Title (en)

Washing machine for drainage and circulation of wash water and controlling method thereof

Title (de)

Waschmaschine zur Drainage und Zirkulation von Waschwasser und Steuerverfahren dafür

Title (fr)

Machine à laver pour le drainage et la circulation de l'eau de lavage et son procédé de commande

Publication

**EP 2871278 A1 20150513 (EN)**

Application

**EP 14177169 A 20140715**

Priority

KR 20130134528 A 20131107

Abstract (en)

A washing machine (100) can include a washing part (210) configured to wash, rinse, and/or spin-dry laundry after water is supplied to a washing tub (111) of the washing machine (100); a drain part (230), including a drain pipe (121) connected to the washing part (210) and a drain hose (122) connected to a drain hole (123), and a pump (120) configured to rotate an impeller (312) connected to a rotation shaft (311) of the pump (120) in a forward direction or a backward direction; and a controller (220) configured to rotate the impeller (312) in the backward direction and circulate wash water into the washing tub (111) through the drain pipe (121) during a washing operation, and rotate the impeller (312) of the pump (120) in the forward direction and discharge the wash water through the drain hose (122) during a drain operation.

IPC 8 full level

**D06F 39/08** (2006.01); **D06F 33/02** (2006.01)

CPC (source: CN EP US)

**D06F 23/02** (2013.01 - CN); **D06F 34/08** (2020.02 - CN EP US); **D06F 39/085** (2013.01 - CN EP US); **D06F 39/08** (2013.01 - CN EP US); **D06F 39/083** (2013.01 - CN EP US); **D06F 2105/06** (2020.02 - CN EP US); **D06F 2105/08** (2020.02 - CN EP US)

Citation (search report)

- [X] DE 102009046782 A1 20100617 - BSH BOSCH SIEMENS HAUSGERAETE [DE]
- [X] DE 3704039 A1 19880818 - BOSCH SIEMENS HAUSGERAETE [DE]
- [X] GB 2166163 A 19860430 - BOSCH SIEMENS HAUSGERAETE
- [A] US 3136254 A 19640609 - DOUGLAS PEYTON W

Cited by

EP3508647A1; US11220774B2; US11680350B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2871278 A1 20150513**; CN 104631058 A 20150520; US 2015121629 A1 20150507

DOCDB simple family (application)

**EP 14177169 A 20140715**; CN 201310701435 A 20131218; US 201314107648 A 20131216