

Title (en)  
WASHING MACHINE AND CONTROLLING METHOD THEREOF

Title (de)  
WASCHMASCHINE UND STEUERUNGSVERFAHREN DAFÜR

Title (fr)  
MACHINE À LAVER ET SON PROCÉDÉ DE COMMANDE

Publication  
**EP 3365487 A4 20181107 (EN)**

Application  
**EP 17756810 A 20170223**

Priority  

- JP 2016034196 A 20160225
- JP 2016157299 A 20160810
- KR 20160165695 A 20161207
- KR 2017001974 W 20170223

Abstract (en)  
[origin: JP2017148474A] PROBLEM TO BE SOLVED: To acquire high detergency even in the case where a washing object is a feather product. SOLUTION: A washing machine includes: a washing and dewatering tub for accommodating laundry; an outer tub for rotatably accommodating the washing and dewatering tub; a rotary vane disposed rotatably at an inner bottom part of the washing and dewatering tub; rotation means for rotating the washing and dewatering tub and the rotary vane; water supply means for supplying water to the outer tub; drain means for draining the water accumulated in the outer tub; and a control part for executing a water supply step of allowing the water supply means to supply water to a preset water level in the outer tub, and a washing step of allowing the rotation means to execute a rotation operation for rotating the washing and dewatering tub and the rotary vane after the execution of the water supply step. The control part is allowed to execute an air vent step in which the rotation operation for rotating the washing and dewatering tub is executed by the rotation means at a rotational speed higher than the rotational speed of the rotation operation in the washing step, before the completion of the water supply step. SELECTED DRAWING: Figure 4

IPC 8 full level  
**D06F 33/32** (2020.01); **D06F 34/32** (2020.01); **D06F 35/00** (2006.01)

CPC (source: EP KR US)  
**D06F 33/32** (2020.02 - EP KR US); **D06F 34/18** (2020.02 - KR); **D06F 34/32** (2020.02 - KR); **D06F 35/006** (2013.01 - KR); **D06F 37/12** (2013.01 - KR); **D06F 37/24** (2013.01 - KR); **D06F 37/304** (2013.01 - KR); **D06F 37/40** (2013.01 - KR); **D06F 34/32** (2020.02 - EP US); **D06F 35/006** (2013.01 - EP US); **D06F 39/08** (2013.01 - EP US); **D06F 2103/18** (2020.02 - EP US); **D06F 2103/24** (2020.02 - KR); **D06F 2105/02** (2020.02 - EP KR US); **D06F 2105/48** (2020.02 - EP KR US)

Citation (search report)  

- [X1] US 2015101668 A1 20150416 - JANKE BRIAN P [US], et al
- [X1] US 2005257576 A1 20051124 - OMURA YOKO [JP], et al
- [A] US 2010242186 A1 20100930 - KIM WOO YOUNG [KR], et al
- [A] US 2006016021 A1 20060126 - KIM JONG G [KR]
- See also references of WO 2017146472A1

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)  
CN 108368661 A 20180803; CN 108368661 B 20210716; EP 3365487 A1 20180829; EP 3365487 A4 20181107; EP 3365487 B1 20200923; JP 2017148474 A 20170831; KR 102641383 B1 20240228; KR 20170100406 A 20170904

DOCDB simple family (application)  
CN 201780004496 A 20170223; EP 17756810 A 20170223; JP 2016157299 A 20160810; KR 20160165695 A 20161207