

Title (en)  
WASHING MACHINE

Title (de)  
WASCHMASCHINE

Title (fr)  
MACHINE À LAVER

Publication  
**EP 3470566 A4 20191127 (EN)**

Application  
**EP 17834812 A 20170728**

Priority  

- JP 2016148896 A 20160728
- JP 2016162817 A 20160823
- JP 2016166774 A 20160829
- JP 2016168935 A 20160831
- JP 2016226345 A 20161121
- JP 2017075230 A 20170405
- KR 2017008159 W 20170728

Abstract (en)  
[origin: EP3470566A1] A compact washing machine capable of improving detergency or reducing a washing time is provided. A drum 30 may be rotatably installed in a tub 20 installed in the inside of a housing 10 in the state in which an opening 12 is toward an opening of the drum 30. A pulsator 40 having a protrusion 45 extending in a radial direction may be rotatably installed on a bottom of the drum 30. During washing operation, a controller 60 may control a driving device 50 to rotate the pulsator 40 and the drum 30 in opposite directions.

IPC 8 full level  
**D06F 37/30** (2006.01); **D06F 37/40** (2006.01)

CPC (source: EP KR US)  
**D06F 17/10** (2013.01 - EP KR US); **D06F 21/04** (2013.01 - US); **D06F 23/02** (2013.01 - EP US); **D06F 37/04** (2013.01 - EP KR US); **D06F 37/22** (2013.01 - KR); **D06F 37/304** (2013.01 - EP KR US); **D06F 37/40** (2013.01 - EP KR US); **D06F 34/10** (2020.02 - EP); **D06F 37/30** (2013.01 - US); **D06F 37/36** (2013.01 - US); **D06F 37/38** (2013.01 - US); **D06F 2103/46** (2020.02 - EP US); **D06F 2105/46** (2020.02 - US); **D06F 2105/48** (2020.02 - KR US)

Citation (search report)  

- [XAY] EP 1630278 A2 20060301 - LG ELECTRONICS INC [KR]
- [Y] US 2016010257 A1 20160114 - KIM SEUNG OH [KR], et al
- [Y] US 5720065 A 19980224 - MYERS SEAN F [US], et al
- [Y] US 3184934 A 19650525 - SMITH THOMAS R
- See references of WO 2018021871A1

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CN112064292A; EP3733951A1; CN111962251A; EP4156474A1; BE1029797B1; US11773525B2

Designated contracting state (EPC)  
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DOCDB simple family (application)  
**EP 17834812 A 20170728**; JP 2017075230 A 20170405; KR 20187030109 A 20170728