

Title (en)
WASHING MACHINE

Title (de)
WASCHMASCHINE

Title (fr)
MACHINE À LAVER

Publication
EP 3239380 A4 20180829 (EN)

Application
EP 15871907 A 20151218

Priority
• JP 2014259457 A 20141222
• CN 2015097812 W 20151218

Abstract (en)
[origin: EP3239380A1] The present invention provides a washing machine capable of suppressing vibration and noise and capable of reducing a gap between a circumferential wall of an outer tub and a housing so as to reduce a useless space. The washing machine includes a box-shaped housing (2) having an internal space (Sp) opened upward; and a washing tub unit (4) suspended and supported through a hanger bar (3) in the internal space (Sp). The washing tub unit includes an outer tub (5) presented in a bottomed quasi-cylindrical shape; an inner tub (6) presented in a bottomed quasi-cylindrical shape, coaxially configured inside the outer tub (5) and rotatably supported by the outer tub; and a driving mechanism (7) arranged at a lower end of the outer tub (5) and configured to drive the inner tub (6) to rotate. A base end side (3A) of the hanger bar (3) is mounted in the vicinity of an upper end (24) of the housing (2), and a top end (3B) side is mounted at a lower portion of the outer tub (5). A center of gravity (Pc1) of the washing tub unit (4) is arranged at a position higher than a height center (Hb) in a vertical direction of the housing (2).

IPC 8 full level
D06F 37/24 (2006.01); **D06F 37/12** (2006.01); **D06F 39/12** (2006.01)

CPC (source: EP KR US)
D06F 17/06 (2013.01 - US); **D06F 23/04** (2013.01 - KR US); **D06F 37/24** (2013.01 - EP KR US); **D06F 37/40** (2013.01 - US); **D06F 37/12** (2013.01 - EP US); **D06F 39/12** (2013.01 - EP KR US)

Citation (search report)
• [X] JP H06304381 A 19941101 - TOKAI RUBBER IND LTD
• [X] JP S6315998 A 19880123 - MATSUSHITA ELECTRIC IND CO LTD
• [A] FR 1180688 A 19590608
• See references of WO 2016101839A1

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

DOCDB simple family (publication)
EP 3239380 A1 20171101; **EP 3239380 A4 20180829**; CN 107109748 A 20170829; CN 107109748 B 20200901; JP 2016116789 A 20160630; JP 6502087 B2 20190417; KR 20170098905 A 20170830; US 2018112344 A1 20180426; WO 2016101839 A1 20160630

DOCDB simple family (application)
EP 15871907 A 20151218; CN 2015097812 W 20151218; CN 201580070382 A 20151218; JP 2014259457 A 20141222; KR 20177020415 A 20151218; US 201515538079 A 20151218