Title (en)
   DRUM TYPE WASHING MACHINE

Title (de)
   TROMMELWASCHMASCHINE

Title (fr)
   MACHINE À LAVER DE TYPE À TAMBOUR

Publication
   EP 2042638 B1 20180221 (EN)

Application
   EP 07832611 A 20071128

Priority
   • JP 2007072889 W 20071128
   • JP 2007033085 A 20070214

Abstract (en)
   [origin: EP2042638A1] The rotary drum formed in a cylindrical shape having a bottom is installed in the washing tub so that the direction of rotation shaft is set to be horizontal or inclined downward from the horizontal direction from the opened front side to the back side at the bottom. The controller drives the motor rapidly to pivot the rotary drum quickly at a change rate so that the laundry sticks to the inner circumference of the rotary drum by centrifugal force, and the laundry is lifted from the lowest position of the rotary drum, at the position of 0 degree, to the position of less than 180 degrees by surpassing the position of 90 degrees. The motor rotation is braked suddenly at a change rate so that the laundry is peeled off from the inner circumference of the rotary drum, and is dropped to the side opposite the lifting side in the rotary drum. The controller executes this series of operation in a normal and reverse pivot drive mode by repeating normal and reverse rotation alternately.

IPC 8 full level
   D06F 33/02 (2006.01); **D06F 37/04** (2006.01)

CPC (source: EP KR US)
   D06F 35/006 (2013.01 - EP US); **D06F 37/04** (2013.01 - EP KR); **D06F 37/40** (2013.01 - KR)

Cited by
   KR20110134343A; US2010058543A1; US2011030149A1; US2012174631A1; US8966944B2; EP2465991A4; US8746015B2; US9932699B2; US9822473B2; US12031259B2; US8776297B2; US2010024137A1; US2011047716A1; EP2149634A3; EP3933089A4; US8713736B2; US8763184B2; EP2149634A2; US10533275B2; EP2496749B1; EP2496748B1

Designated contracting state (EPC)
   AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
   EP 2042638 A1 20090401; **EP 2042638 A4 20120229**; **EP 2042638 B1 20180221**; CN 101517141 A 20090826; CN 101517141 B 20110323; JP 2008194255 A 20080828; JP 4100576 B1 20080611; KR 100984583 B1 20100930; KR 20090037860 A 20090416; MY 155034 A 20150828; RU 2398058 C1 20100827; TW 200840905 A 20081016; TW I347988 B 20110901; WO 2008099547 A1 20080821

DOCDB simple family (application)
   EP 07832611 A 20071128; CN 200780035625 A 20071128; JP 2007033085 A 20070214; JP 2007072889 W 20071128; KR 20087030058 A 20071128; MY PI20090105 A 20071122; RU 2009106698 A 20071128; TW 96143705 A 20071119