

Title (en)  
Drum-type washer

Title (de)  
Trommelwaschmaschine

Title (fr)  
Machine à laver de type tambour

Publication  
**EP 2228478 A1 20100915 (EN)**

Application  
**EP 10154187 A 20100222**

Priority  
• JP 2009054541 A 20090309  
• JP 2009054542 A 20090309

Abstract (en)  
A drum-type washer includes a rotating drum (17), a drain outlet (31), a motor (21), a feed-water unit (65), a drainage unit (60), and a controller (38). The drum (17) is rotatable in a washing tub (19) and has a rotation axis either horizontal or inclined from a horizontal. The drain outlet (31) is in the bottom of the washing tub (19). The motor (21) rotates the drum (17). The feed-water unit (65) feeds water into the washing tub (19). The drainage unit (60) drains water from the washing tub (19). The controller (38) controls at least the motor (21), the feed-water unit (65), and the drainage unit (60) so as to perform at least the wash, rinse, and spin cycles. The washer also includes a water circulation channel (47), which extends from an opening (45) in the rear side of the washing tub (19) and communicates with a drain space (37) downstream of the drain outlet (31).

IPC 8 full level  
**D06F 33/02** (2006.01); **D06F 39/08** (2006.01)

CPC (source: EP US)  
**D06F 39/083** (2013.01 - EP US); **D06F 39/088** (2013.01 - EP US)

Citation (applicant)  
JP 2006061431 A 20060309 - HITACHI HOME & LIFE SOLUTIONS

Citation (search report)  
• [XAI] JP 2006061431 A 20060309 - HITACHI HOME & LIFE SOLUTIONS  
• [A] EP 0716178 A2 19960612 - SHARP KK [JP]  
• [A] EP 0182364 A2 19860528 - ZANUSSI ELETTRODOMESTICI [IT]  
• [A] EP 1983094 A1 20081022 - SANYO ELECTRIC CO [JP]

Designated contracting state (EPC)  
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 SE SI SK SM TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**EP 2228478 A1 20100915; EP 2228478 B1 20110720**; AT E517205 T1 20110815; CN 101831777 A 20100915; CN 101831777 B 20120704; CN 201620278 U 20101103

DOCDB simple family (application)  
**EP 10154187 A 20100222**; AT 10154187 T 20100222; CN 201010132221 A 20100309; CN 201020136620 U 20100309