

Title (en)
Drum type washing machine

Title (de)
Trommelwaschmaschine

Title (fr)
Machine à laver à tambour

Publication
EP 2360306 B1 20160406 (EN)

Application
EP 11003983 A 20070530

Priority
• EP 07109185 A 20070530
• KR 20060049497 A 20060601
• KR 20060049494 A 20060601

Abstract (en)
[origin: EP1862578A2] A drum type washing machine including a balancer capable of rapidly reducing vibration of a spin tub. The drum type washing machine includes a spin tub (40) which is rotated by receiving rotational force from a driving motor through a rotating shaft, a rear balancer (70R) having an annular shape and being coupled to the spin tub, and a shaft flange (60) provided at a center portion thereof with the rotating shaft and coupled to the spin tub so as to uniformly transfer the rotational force to the spin tub. The rear balancer is supported on a rear surface of a rear cover (43) by the shaft flange. Thus, the balls accommodated in the balancer are prevented from moving out of the balancer, even if the balancer is broken due to long-period use.

IPC 8 full level
D06F 37/22 (2006.01)

CPC (source: EP US)
D06F 37/225 (2013.01 - EP US)

Citation (opposition)
Opponent : Dr. [Wolfgang Bock](#)
• EP 1862578 A2 20071205 - SAMSUNG ELECTRONICS CO LTD [KR]
• KR 20060049494 A 20060601
• KR 20060049497 A 20060601
• EP 1862577 A2 20071205 - SAMSUNG ELECTRONICS CO LTD [KR]
• KR 20060049482 A 20060601
• KR 20060049501 A 20060601
• US 5850748 A 19981222 - KIM CIN YONG [KR], et al
• KR 0136040 Y1 19990515 - SAMSUNG ELECTRONICS CO LTD [KR]
• US 5916274 A 19990629 - LEE JOON YEOP [KR], et al
• US 2006053843 A1 20060316 - CHANG JAE W [KR], et al
• US 5761932 A 19980609 - KIM DO WEON [KR]
• US 5761933 A 19980609 - KIM DO WEON [KR], et al

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
EP 1862578 A2 20071205; EP 1862578 A3 20090311; EP 1862578 B1 20120627; EP 2360306 A2 20110824; EP 2360306 A3 20120620; EP 2360306 B1 20160406; EP 2365118 A2 20110914; EP 2365118 A3 20120829; EP 2365118 B1 20171227; ES 2389862 T3 20121102

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EP 07109185 A 20070530; EP 11003982 A 20070530; EP 11003983 A 20070530; ES 07109185 T 20070530