

Title (en)  
DRUM-TYPE WASHING MACHINE

Title (de)  
TROMMELWASCHMASCHINE

Title (fr)  
MACHINE À LAVER À TAMBOUR

Publication  
**EP 2557221 B1 20160210 (EN)**

Application  
**EP 12747686 A 20120215**

Priority  
• JP 2011030487 A 20110216  
• JP 2012000986 W 20120215

Abstract (en)  
[origin: EP2557221A1] A drum-type washing machine includes left and right side plates (8) formed of steel plates, the side plates (8) defining side surfaces of an outer case (1), a front cover (5) provided with an openable and closable door (4), the front cover (5) defining a front surface of the outer case (1), an upper cover (2) defining an upper surface of the outer case (1), a water tank (12) oscillatably arranged in the outer case (1), and a rotary drum (11) axially supported in the water tank (12), wherein a plurality of concave portions (9) are formed on the left and right side plates (8), and the concave portion (9) closer to the front surface of the outer case (1) as a door side has an arc shape with a larger curvature. Thus, rigidity of the side plates (8) in the up and down direction and the left and right direction is increased, so that vibration at the time of spin-drying is reduced.

IPC 8 full level  
**D06F 39/12** (2006.01); **A47L 15/42** (2006.01); **D06F 37/22** (2006.01)

CPC (source: EP US)  
**A47L 15/4209** (2016.10 - EP US); **D06F 39/12** (2013.01 - EP US); **D06F 39/001** (2013.01 - EP US)

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 2557221 A1 20130213**; **EP 2557221 A4 20140115**; **EP 2557221 B1 20160210**; CN 102803599 A 20121128; CN 102803599 B 20150311; JP 2012165938 A 20120906; JP 5659842 B2 20150128; SI 2557221 T1 20160531; US 2013014546 A1 20130117; WO 2012111323 A1 20120823

DOCDB simple family (application)  
**EP 12747686 A 20120215**; CN 201280000950 A 20120215; JP 2011030487 A 20110216; JP 2012000986 W 20120215; SI 201230522 A 20120215; US 201213637922 A 20120215