

Title (en)  
Washing machine

Title (de)  
Waschmaschine

Title (fr)  
Machine à laver

Publication  
**EP 1903138 A1 20080326 (EN)**

Application  
**EP 07018724 A 20070924**

Priority  
KR 20060093122 A 20060925

Abstract (en)  
A washing machine (1) includes a detergent dispenser (20) with a removable detergent box (30), a locking unit (40), and an automatic withdrawing unit (50). The locking unit (40) may lock or unlock the detergent box (30) once it is inserted into the dispenser (20). The automatic withdrawing unit (50) utilizes a wire (55) wound on a spring biased reel (54) to pull the detergent box (30) to a withdrawn state when the locking unit (40) is unlocked.

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

CPC (source: EP KR US)  
**A47B 88/437** (2016.12 - KR); **A47B 88/46** (2016.12 - KR); **A47B 88/473** (2016.12 - KR); **A47B 88/50** (2016.12 - KR); **D06F 37/42** (2013.01 - KR); **D06F 39/02** (2013.01 - EP KR US); **D06F 39/12** (2013.01 - KR)

Citation (applicant)  
• EP 0327043 A2 19890809 - MERLONI ELETTRODOMESTICI SPA [IT]  
• EP 1724387 A1 20061122 - ITW IND COMPONENTS SRL [IT]

Citation (search report)  
• [X] EP 0327043 A2 19890809 - MERLONI ELETTRODOMESTICI SPA [IT]  
• [PX] EP 1724387 A1 20061122 - ITW IND COMPONENTS SRL [IT]  
• [PA] DE 102006029662 A1 20070222 - LG ELECTRONICS INC [KR]  
• [Y] WO 02052091 A1 20020704 - BSH BOSCH SIEMENS HAUSGERAETE [DE], et al  
• [Y] US 4660881 A 19870428 - KOMEYA SEIJI [JP], et al  
• [Y] US 4828344 A 19890509 - OMATA NOBUAKI [JP]  
• [A] FR 2334779 A1 19770708 - BAUKNECHT GMBH G [DE]

Cited by  
WO2019096486A1; EP3882391A1; CN107366133A; WO2016008629A1

Designated contracting state (EPC)  
DE FR GB

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
**EP 1903138 A1 20080326**; CN 101153452 A 20080402; CN 101153452 B 20120404; KR 20080027677 A 20080328; US 2008072632 A1 20080327

DOCDB simple family (application)  
**EP 07018724 A 20070924**; CN 200710161289 A 20070925; KR 20060093122 A 20060925; US 85782707 A 20070919