

Title (en)
Laundry machine

Title (de)
Waschmaschine

Title (fr)
Machine de blanchisserie

Publication
EP 2292827 A1 20110309 (EN)

Application
EP 10173860 A 20100824

Priority
JP 2009194616 A 20090825

Abstract (en)
A laundry machine includes a pipeline (701,702) in which washing water is filled; a feeder (71) configured to feed the washing water in the pipeline; an optical sensor (72) including a light emitter (721) disposed outside the pipeline to emit light to the washing water and a light receiver (722) disposed outside the pipeline to receive the light emitted from the light emitter; and an electrode sensor (73) protruding into the pipeline, wherein the optical sensor (72) is disposed at an upstream side with respect to the electrode sensor (73).

IPC 8 full level
A47L 15/42 (2006.01); **D06F 33/32** (2020.01); **D06F 34/22** (2020.01)

CPC (source: EP US)
D06F 33/32 (2020.02 - EP US); **D06F 34/22** (2020.02 - EP US); **D06F 2103/00** (2020.02 - EP US); **D06F 2103/18** (2020.02 - EP US); **D06F 2103/20** (2020.02 - EP US); **D06F 2105/00** (2020.02 - EP US)

Citation (applicant)

- JP H06218183 A 19940809 - TOSHIBA CORP
- JP H07144090 A 19950606 - SHARP KK

Citation (search report)

- [A] DE 10011692 A1 20010913 - AWECO APPLIANCE SYS GMBH & CO [DE]
- [A] EP 1688529 A1 20060809 - ELECTROLUX HOME PROD CORP [BE]
- [A] EP 1842952 A1 20071010 - COPRECITEC SL [ES]
- [A] WO 2009066939 A2 20090528 - LG ELECTRONICS INC [KR], et al
- [A] DE 4336520 A1 19950427 - SIEMENS AG [DE]
- [A] EP 2057929 A1 20090513 - ELECTROLUX HOME PROD CORP [BE]
- [A] JP H03224598 A 19911003 - MATSUSHITA ELECTRIC IND CO LTD
- [A] JP H07163781 A 19950627 - MATSUSHITA ELECTRIC IND CO LTD

Cited by
EP2339059A4; EP3907322A1; US10390675B2; WO2011049806A1

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 SE SI SK SM TR

Designated extension state (EPC)
BA ME RS

DOCDB simple family (publication)
EP 2292827 A1 20110309; EP 2292827 B1 20120328; AT E551460 T1 20120415; CN 101994239 A 20110330; CN 101994239 B 20120704; CN 201762581 U 20110316; JP 2011045437 A 20110310; JP 4909391 B2 20120404; TW 201111583 A 20110401; TW I418681 B 20131211

DOCDB simple family (application)
EP 10173860 A 20100824; AT 10173860 T 20100824; CN 201010263686 A 20100825; CN 201020506226 U 20100825; JP 2009194616 A 20090825; TW 99128241 A 20100824