

Title (en)
SANITARY WASHING DEVICE

Title (de)
SANITÄRWASCHVORRICHTUNG

Title (fr)
DISPOSITIF SANITAIRE LAVANT

Publication
EP 3045597 A4 20160914 (EN)

Application
EP 14843321 A 20140827

Priority
• JP 2013186908 A 20130910
• JP 2013186910 A 20130910
• JP 2014004391 W 20140827

Abstract (en)
[origin: EP3045597A1] A sanitary washing device includes a nozzle device, a water pump, a heat exchanger, and sub tank (600). Sub tank (600) includes: atmosphere open port (603), water inflow tank (615) and storage tank (616) formed separately from each other by partition wall (614). Washing water flows into the sanitary washing device through water inflow port (601) of water inflow tank (615), overflows the partition wall (614), flows into the storage tank (616), and is supplied to heat exchanger from water outflow port (602) of storage tank (616). Accordingly, a portion of air contained in washing water is separated and is discharged to the outside of the sub tank (600) through the atmosphere open port (603), and washing water containing a reduced amount of air is supplied to the heat exchanger. As a result, bubbles generated in the heat exchanger can be reduced so that thermal efficiency and durability of the heat exchanger can be enhanced.

IPC 8 full level
E03D 9/08 (2006.01); **F24H 1/10** (2006.01); **H05B 3/02** (2006.01)

CPC (source: EP)
E03D 9/08 (2013.01); **H05B 3/141** (2013.01); **H05B 3/267** (2013.01)

Citation (search report)
• [A] EP 2163695 A1 20100317 - TOTO LTD [JP]
• [A] EP 2476969 A1 20120718 - PANASONIC CORP [JP]
• [A] EP 0989246 A1 20000329 - MATSUSHITA ELECTRONICS CORP [JP]
• See references of WO 2015037199A1

Cited by
EP3739133A3; CN107373756A; EP3760797A1; EP3760798A1; US11668084B2; US11214951B2; US11220812B2; US11591784B2; EP3760801A1; CN112177118A; EP3760799A1; US11214950B2

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3045597 A1 20160720; EP 3045597 A4 20160914; EP 3045597 B1 20170628; CN 105531427 A 20160427; CN 105531427 B 20170616; JP 6318370 B2 20180509; JP WO2015037199 A1 20170302; WO 2015037199 A1 20150319

DOCDB simple family (application)
EP 14843321 A 20140827; CN 201480049615 A 20140827; JP 2014004391 W 20140827; JP 2015536441 A 20140827