

Title (en)  
SANITARY CLEANSING DEVICE

Title (de)  
SANITÄRE REINIGUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF DE NETTOYAGE SANITAIRE

Publication  
**EP 2871295 A4 20151118 (EN)**

Application  
**EP 13813147 A 20130308**

Priority  
• JP 2012152464 A 20120706  
• JP 2013001514 W 20130308

Abstract (en)  
[origin: EP2871295A1] A sanitary cleansing device of the present invention includes: a cleansing nozzle; and a cleansing water flow passage (202) configured to allow cleansing water to flow toward the cleansing nozzle. The cleansing water flow passage (202) has: a displacement pump (14) configured to control a flow rate of the cleansing water; an atmosphere open part (8) disposed at an upstream side of the displacement pump (14), configured to open a part of the cleansing water flow passage (202) to atmosphere, and having a tank for storing the cleansing water, and a water level sensor for detecting a water level in the tank; a solenoid valve (7) configured to pass and block the cleansing water supplied to the atmosphere open part (8); and a controller (4) configured to control the displacement pump (14) and the solenoid valve (7). Consequently, no flow sensor is needed, and it is possible to realize a downsized sanitary cleansing device with no gap with a set flow rate.

IPC 8 full level  
**E03D 9/08** (2006.01)

CPC (source: CN EP)  
**E03D 9/08** (2013.01 - CN EP)

Citation (search report)  
• [A] US 4208746 A 19800624 - MINAMOTO NAOKI [JP], et al  
• [A] EP 2163695 A1 20100317 - TOTO LTD [JP]  
• [A] DE 202005000084 U1 20050317 - ZUBER HELMUT [DE]  
• See references of WO 2014006791A1

Cited by  
EP3006634A1; IT201800003589A1; IT201900000643A1; EP3995637A1; WO2023150841A1

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 2871295 A1 20150513; EP 2871295 A4 20151118; EP 2871295 B1 20161130**; CN 104411896 A 20150311; CN 104411896 B 20150923; JP 5578295 B2 20140827; JP WO2014006791 A1 20160602; WO 2014006791 A1 20140109

DOCDB simple family (application)  
**EP 13813147 A 20130308**; CN 201380036037 A 20130308; JP 2013001514 W 20130308; JP 2014505432 A 20130308