

Title (en)  
NOZZLE ASSEMBLY FOR BIDET

Title (de)  
DÜSENANORDNUNG FÜR EIN BIDET

Title (fr)  
ENSEMBLE TUBULURE POUR BIDET

Publication  
**EP 3040487 B1 20191113 (EN)**

Application  
**EP 14839410 A 20140820**

Priority  

- KR 20130101183 A 20130826
- KR 20140107913 A 20140819
- KR 2014007734 W 20140820

Abstract (en)  
[origin: EP3040487A1] The present invention provides a nozzle assembly for a bidet, the nozzle assembly comprising: a nozzle unit which moves along a curved line and comprises a water supply hose connected to a water supply source; and a driving unit having a winding member for rotating/driving such that the length of extension of the nozzle unit is adjusted, the driving unit guaranteeing that the nozzle unit moves along a curved line, where the length of extension of the nozzle unit is adjusted in multiple steps, and the withdrawing rotation angle, by which the winding member rotates in order to change the length of extension of the nozzle unit from one of the steps to the adjacent upper step, is different in each step. The length of extension of the nozzle unit can be adjusted such that the interval of water ejection positions is constant.

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

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

Citation (opposition)  
Opponent : TOTO Ltd.  

- US 2013152295 A1 20130620 - HUANG HONGCHANG [CN]
- JP 2012107386 A 20120607 - TOTO LTD
- JP 2006249862 A 20060921 - AISIN SEIKI
- US 2006070173 A1 20060406 - YOON SUN H [KR]
- EP 2503070 A1 20120926 - SHANGHAI KOHLER ELECTRONICS [CN]
- JP 2010127024 A 20100610 - PANASONIC CORP

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 3040487 A1 20160706; EP 3040487 A4 20160803; EP 3040487 B1 20191113; EP 3040487 B2 20230503**; CN 105518231 A 20160420; JP 2016528412 A 20160915; JP 6505709 B2 20190424; KR 20150024779 A 20150309; US 2016215489 A1 20160728

DOCDB simple family (application)  
**EP 14839410 A 20140820**; CN 201480047112 A 20140820; JP 2016538839 A 20140820; KR 20140107913 A 20140819; US 201414913436 A 20140820