

Title (en)
HYGIENIC WASHING DEVICE

Title (de)
HYGIENISCHE WASCHVORRICHTUNG

Title (fr)
DISPOSITIF DE LAVAGE HYGIÉNIQUE

Publication
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Application
EP 12767591 A 20120406

Priority

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- JP 2011213433 A 20110928
- JP 2011213434 A 20110928
- JP 2011213435 A 20110928
- JP 2011213436 A 20110928
- JP 2011237543 A 20111028
- JP 2012059596 W 20120406

Abstract (en)
[origin: EP2696004A1] According to an aspect of the invention, a sanitary washing apparatus includes: jetting means configured to jet water in a hollow conic shape; fracturing means configured to generate granulated water flows by fracturing a liquid film of the water jetted in the hollow conic shape to fill a hollow portion of the water jetted in the hollow conic shape with the granulated water flows before the water jetted in the hollow conic shape impinges on the human private parts; and liquid film thickness expanding means provided on downstream side of the jetting means and on upstream side of the jetting hole and configured to make thickness of the liquid film of the water jetted in the hollow conic shape from the jetting hole thicker than thickness of a liquid film of the water jetted in the hollow conic shape from the jetting means.

IPC 8 full level
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Citation (search report)

- [X] US 2011072571 A1 20110331 - MOCHITA MASAYUKI [JP], et al
- [Y] US 2011072572 A1 20110331 - HASHIMOTO HIROSHI [JP], et al
- [Y] US 6754912 B1 20040629 - HAYASHI RYOSUKE [JP], et al
- [YD] JP 2001090151 A 20010403 - TOTO LTD
- See references of WO 2012137955A1

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 2696004 A1 20140212; **EP 2696004 A4 20141112**; **EP 2696004 B1 20200610**; CN 103459731 A 20131218; CN 103459731 B 20160113; KR 101506222 B1 20150326; KR 20130124978 A 20131115; TW 201245545 A 20121116; TW I570303 B 20170211; WO 2012137955 A1 20121011

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