

Title (en)
Washing device

Title (de)
Wascheinrichtung

Title (fr)
Dispositif de lavage

Publication
EP 2210987 A3 20160817 (DE)

Application
EP 10004506 A 20061127

Priority
• EP 06804885 A 20061127
• CH 18902005 A 20051129
• CH 2006000660 W 20061127

Abstract (en)
[origin: WO2007062536A2] The invention relates to a washing device (10) which is used to dispense water in sanitary fittings, in particular, in a shower or a washstand. Said washing device comprises an outlet (1) for spraying liquids at a low through-flow rate, in addition to a conveying device (6) which is used to increase the pressure of the liquid prior to spraying. In a preferred embodiment, the inventive washing device (10) comprises a heating device (5) which is used to heat the water. In another preferred embodiment, spraying occurs in such a manner that a liquid jet (21) impacts upon a hindrance (21, 34) at a high relative speed. The hindrance can be a moveable or a stationary solid body (34) or at least one additional liquid jet (21). Preferably, spraying is carried out such that the outlet (1) comprises at least one set of nozzles (2) having at least two nozzles (3) in order to produce liquid jets which impact upon each other (21) and spray the liquid. The set of nozzles (2) comprises, for example, two, three, four or several nozzles (3), whereby the jets thereof (21) meet at least approximately at a point (20).

IPC 8 full level
E03C 1/046 (2006.01)

CPC (source: EP US)
B05B 1/185 (2013.01 - EP); **B05B 1/26** (2013.01 - EP US); **B05B 1/262** (2013.01 - EP US); **B05B 3/001** (2013.01 - EP US); **B05B 3/02** (2013.01 - EP US); **E03C 1/0404** (2013.01 - EP US); **E03C 1/041** (2013.01 - EP US); **E03C 1/046** (2013.01 - EP US); **E03C 1/18** (2013.01 - US)

Citation (search report)
• [X] DE 2951318 A1 19810702 - HETTLER PAUL
• [X] US 4563780 A 19860114 - POLLACK SIMCHA Z [US]
• [A] US 4187986 A 19800212 - PETROVIC JOHN E [US]
• [A] WO 2004101163 A1 20041125 - METHVEN LTD [NZ], et al

Cited by
DE102019116842A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
WO 2007062536 A2 20070607; WO 2007062536 A3 20070823; AT E470024 T1 20100615; AU 2006319651 A1 20070607; AU 2006319651 B2 20110804; BR PI0619062 A2 20110920; BR PI0619062 B1 20171121; CA 2629565 A1 20070607; CA 2629565 C 20140429; CH 698604 B1 20090915; CN 101316970 A 20081203; CN 101316970 B 20120404; CN 102518180 A 20120627; CN 102518181 A 20120627; CN 102518181 B 20150916; CN 102587461 A 20120718; CN 102587461 B 20160504; DE 502006007129 D1 20100715; EP 1954893 A2 20080813; EP 1954893 B1 20100602; EP 2204507 A2 20100707; EP 2204507 A3 20150218; EP 2204508 A2 20100707; EP 2204508 A3 20150128; EP 2204508 B1 20180711; EP 2210987 A2 20100728; EP 2210987 A3 20160817; EP 2210987 B1 20200527; ES 2346692 T3 20101019; IL 191383 A 20120531; JP 2009517203 A 20090430; JP 2014097379 A 20140529; JP 5955297 B2 20160720; MY 145378 A 20120131; PL 1954893 T3 20110131; PT 1954893 E 20100812; RU 2008125322 A 20100110; RU 2439251 C2 20120110; US 2008301869 A1 20081211; US 2013247295 A1 20130926; US 8458826 B2 20130611; US 9303394 B2 20160405; ZA 200804290 B 20100224; ZA 200908041 B 20111026

DOCDB simple family (application)
CH 2006000660 W 20061127; AT 06804885 T 20061127; AU 2006319651 A 20061127; BR PI0619062 A 20061127; CA 2629565 A 20061127; CH 18902005 A 20051129; CN 200680044739 A 20061127; CN 201210028971 A 20061127; CN 201210029035 A 20061127; CN 201210029037 A 20061127; DE 502006007129 T 20061127; EP 06804885 A 20061127; EP 10004201 A 20061127; EP 10004202 A 20061127; EP 10004506 A 20061127; ES 06804885 T 20061127; IL 19138308 A 20080513; JP 2008542574 A 20061127; JP 2013228476 A 20131101; MY PI20081822 A 20061127; PL 06804885 T 20061127; PT 06804885 T 20061127; RU 2008125322 A 20061127; US 201313897905 A 20130520; US 9521006 A 20061127; ZA 200804290 A 20061127; ZA 200908041 A 20091116