

Title (en)
WATER DISCHARGE DEVICE

Title (de)
WASSERAUSSTOSSVORRICHTUNG

Title (fr)
DISPOSITIF D'EVACUATION D'EAU

Publication
EP 3023553 A1 20160525 (EN)

Application
EP 15195618 A 20151120

Priority
• JP 2014236271 A 20141121
• JP 2015187702 A 20150925

Abstract (en)
Water discharge device including: a first member (10) including an injection port (11); a second member (20) including a streaming flow channel (23) with a streaming discharge port (21), and a shower flow channel (24) with a shower discharge port (22); and a flow channel switching mechanism. The shower flow channel (24) includes an air intake section, a storage section (24b2) of water with bubbles, a backflow prevention section, the shower discharge port (22), and a positional displacement prevention section that prevents at least a part of a projected plane, formed by projecting a downstream end of the injection port (11) in an injection direction, from being displaced outside the backflow prevention section due to an impact caused by the water injected through the injection port (11), in a state where water at a maximum flow rate is supplied into the injection port (11), and the entire projected plane passes through an inside of the backflow prevention section.

IPC 8 full level
E03C 1/084 (2006.01); **B05B 1/16** (2006.01); **E03C 1/10** (2006.01)

CPC (source: CN EP US)
B05B 1/1636 (2013.01 - EP US); **B05B 7/0425** (2013.01 - EP US); **E03C 1/084** (2013.01 - CN EP US); **E03C 1/10** (2013.01 - EP US); **E03C 1/102** (2013.01 - EP)

Citation (applicant)
• JP 3729198 B2 20051221
• JP 2014068678 A 20140421 - TOTO LTD

Citation (search report)
• [A] US 2014300010 A1 20141009 - ZHOU HUAQIANG [CN]
• [A] US 3334818 A 19670808 - MOEN ALFRED M
• [A] US 5348231 A 19940920 - ARNOLD DON C [US], et al
• [A] US 3524591 A 19700818 - SAMUELS ABRAHAM M, et al

Cited by
EP3587679A4

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 3023553 A1 20160525; CN 105625519 A 20160601; CN 105625519 B 20171020; US 2016145842 A1 20160526

DOCDB simple family (application)
EP 15195618 A 20151120; CN 201510761251 A 20151110; US 201514945034 A 20151118