

Title (en)

TOILET CLEANING DEVICE, AND FLUSH TOILET

Title (de)

TOILETTENREINIGUNGSVORRICHTUNG UND SPÜLTOILETTE

Title (fr)

DISPOSITIF DE NETTOYAGE DE TOILETTES ET TOILETTES À CHASSE D'EAU

Publication

EP 2674535 A1 20131218 (EN)

Application

EP 12744346 A 20120126

Priority

- JP 2011027353 A 20110210
- JP 2011159250 A 20110720
- JP 2012008284 A 20120118
- JP 2012051631 W 20120126

Abstract (en)

Providing a toilet flushing device and a flush toilet both of which can desirably execute toilet flushing. A toilet flushing device (20) includes a first tank (21) storing flush water, a second tank (22) having a lower opening (22C) communicating with the first tank (21) and having a lower region (22D) and an upper region (22U) with a larger capacity per unit height than the lower region (22D), an air passage (23) communicating between the second tank (22) and a toilet drainage (12) via a position located higher than a maximum storage water level (L) in the first tank (21), a water-supply passage (24) communicating between the first tank (21) and a toilet bowl (11) and a on-off valve (25) which maximizes a flow rate of an air in the air passage (23) with a delay to initiation of supply of flush water stored in the first tank (21) through the water-supply passage (24) into the toilet bowl (11), the air flowing from the toilet drainage (12) side to the second tank (22) side.

IPC 8 full level

E03D 11/02 (2006.01); **E03D 11/18** (2006.01)

CPC (source: EP KR US)

E03D 1/24 (2013.01 - EP US); **E03D 3/10** (2013.01 - EP US); **E03D 5/01** (2013.01 - EP KR US); **E03D 5/02** (2013.01 - KR); **E03D 5/10** (2013.01 - EP US); **E03D 5/12** (2013.01 - KR); **E03D 11/08** (2013.01 - EP US); **E03D 11/18** (2013.01 - EP US); **E03D 11/02** (2013.01 - EP US)

Citation (search report)

See references of WO 2012108269A1

Cited by

EP3321433A4

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)

US 2013291297 A1 20131107; CA 2826077 A1 20120816; CN 103354856 A 20131016; CN 103354856 B 20150114; EP 2674535 A1 20131218; KR 20140015322 A 20140206; TW 201237238 A 20120916; WO 2012108269 A1 20120816

DOCDB simple family (application)

US 201213980916 A 20120126; CA 2826077 A 20120126; CN 201280008468 A 20120126; EP 12744346 A 20120126; JP 2012051631 W 20120126; KR 20137020840 A 20120126; TW 101103989 A 20120208