

Title (en)  
IMPROVED TOILET FLUSHING SYSTEM

Title (de)  
VERBESSERTES TOILETTENSPÜLSYSTEM

Title (fr)  
CHASSE D'EAU AMÉLIORÉE POUR TOILETTES

Publication  
**EP 4022138 A4 20221130 (EN)**

Application  
**EP 20851049 A 20200806**

Priority  
• US 201916533776 A 20190806  
• US 2020045277 W 20200806  
• US 201862714766 P 20180806

Abstract (en)  
[origin: US2020071919A1] This invention eliminates the wastage of water from the toilet flushing systems and also solves the problems that commonly exist in the toilet systems today. It uses a leak trap system that shuts down incoming water in case of a leak in the flushing system. It provides a simple and cost effective solution.

IPC 8 full level  
**E03D 1/30** (2006.01); **E03D 1/00** (2006.01); **E03D 1/14** (2006.01); **E03D 1/24** (2006.01); **E03D 1/26** (2006.01); **E03D 1/32** (2006.01); **E03D 1/33** (2006.01); **E03D 5/02** (2006.01); **E03D 1/20** (2006.01); **E03D 5/09** (2006.01)

CPC (source: EP US)  
**E03D 1/00** (2013.01 - EP); **E03D 1/14** (2013.01 - EP); **E03D 1/20** (2013.01 - US); **E03D 1/26** (2013.01 - EP); **E03D 1/30** (2013.01 - US); **E03D 1/32** (2013.01 - EP); **E03D 1/33** (2013.01 - EP US); **E03D 5/026** (2013.01 - EP US); **E03D 11/11** (2013.01 - US); **E03D 1/20** (2013.01 - EP); **E03D 5/09** (2013.01 - EP)

Citation (search report)  
• [XAI] DE 2459779 A1 19760624 - EICHLER RUDOLF  
• [XAI] CN 2521269 Y 20021120 - LI YONGGANG [CN]  
• [XAI] KR 20120039427 A 20120425 - KIM YOUNG SOK [KR]  
• [A] WO 2008017114 A1 20080214 - CAROMA IND LTD [AU], et al  
• [A] IE 20020761 A1 20030416 - SYLVESTER LISBETH PEDERSEN [DK]  
• [A] US 946130 A 19100111 - HAWKINS FRANCIS F [US]  
• [A] WO 02077377 A2 20021003 - GEBERIT TECHNIK AG [CH], et al  
• [A] EP 2628865 A2 20130821 - SANITEC OY [FI]  
• [A] US 4419772 A 19831213 - SMITH CLARK K [US]  
• [A] US 1014301 A 19120109 - HAWKINS FRANCIS F [US]  
• See references of WO 2021026389A1

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 2020071919 A1 20200305**; CA 3146926 A1 20210211; CN 217630292 U 20221021; EP 4022138 A1 20220706; EP 4022138 A4 20221130; JP 2022546200 A 20221104; US 2022298769 A1 20220922; WO 2021026389 A1 20210211

DOCDB simple family (application)  
**US 201916533776 A 20190806**; CA 3146926 A 20200806; CN 202090000793 U 20200806; EP 20851049 A 20200806; JP 2022505224 A 20200806; US 2020045277 W 20200806; US 202017633037 A 20200806