

Title (en)  
SEWAGE DISCHARGE DEVICE OF VARIABLE WATER-SAVING TOILET

Title (de)  
ABWASSERABLEITUNGSVORRICHTUNG EINER TOILETTE MIT VERÄNDERLICHER WASSEREINSPARUNG

Title (fr)  
DISPOSITIF D'ÉVACUATION D'EAUX USÉES DE TOILETTES À ÉCONOMIE D'EAU VARIABLE

Publication  
**EP 3643844 B1 20211215 (EN)**

Application  
**EP 18820371 A 20180502**

Priority  
• KR 20170077713 A 20170620  
• KR 2018005085 W 20180502

Abstract (en)  
[origin: EP3643844A1] The present invention relates to a sewage discharge device of a variable water-saving toilet, the device discharging sewage in a bowl to the outside by the load of an auxiliary tank, when a part of tap water branches off from a tap water inflow path such that the tap water stored in the auxiliary tank provided around the outer periphery of a sewage discharge pipe of the toilet reaches a predetermined amount or more.

IPC 8 full level  
**E03D 11/18** (2006.01); **E03D 5/012** (2006.01); **E03D 11/10** (2006.01); **E03D 11/13** (2006.01); **F16K 31/12** (2006.01)

CPC (source: EP KR US)  
**E03D 5/012** (2013.01 - EP); **E03D 11/10** (2013.01 - EP KR US); **E03D 11/13** (2013.01 - EP); **E03D 11/18** (2013.01 - EP KR US);  
**E03D 2201/30** (2013.01 - EP)

Cited by  
EP4056776A1

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 3643844 A1 20200429; EP 3643844 A4 20210310; EP 3643844 B1 20211215**; CN 110914504 A 20200324; ES 2908735 T3 20220503;  
JP 2020524235 A 20200813; JP 7012753 B2 20220128; KR 101860834 B1 20180525; US 2020141106 A1 20200507;  
WO 2018236043 A1 20181227

DOCDB simple family (application)  
**EP 18820371 A 20180502**; CN 201880041236 A 20180502; ES 18820371 T 20180502; JP 2019571422 A 20180502;  
KR 20170077713 A 20170620; KR 2018005085 W 20180502; US 201816624975 A 20180502