

Title (en)
TOILET BOWL VENTING SYSTEM

Title (de)
ENTGASUNGSSYSTEM FÜR TOILETTENSCHÜSSEL

Title (fr)
SYSTÈME DE VENTILATION DE CUVETTE DE TOILETTES

Publication
EP 3179000 A3 20170823 (EN)

Application
EP 16200187 A 20161123

Priority
CN 201510866691 A 20151201

Abstract (en)
[origin: EP3179000A2] A damp-proof venting device comprising a proximity sensor switch, fan blower, two solenoid valves and a control unit, powered by an external power supply, vents toilet bowl malodour directly into the toilet's sewerage drain, bypassing the toilet's primary water trap via an independent pressure-driven air passage sealed by a secondary independent water trap. Said control unit regulates the operation of venting unit's air blower and two solenoid valves, thus ensuring directionality of displaced air during the venting stage as well as sealing the venting passage after use under all possible circumstances, all in synchronicity with the toilet's engagement by user. A slight variation of said device allows for retrofitting onto geometry and space-accommodating market-available toilet models.

IPC 8 full level
E03D 9/05 (2006.01); **E03D 9/052** (2006.01)

CPC (source: CN EP US)
E03D 9/05 (2013.01 - CN EP US); **E03D 9/052** (2013.01 - EP US)

Citation (search report)

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- [A] US 5386594 A 19950207 - HILTON DAVID D [US]
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CN110243458A; DE102021001333A1; US11920337B2

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 3179000 A2 20170614; EP 3179000 A3 20170823; EP 3179000 B1 20200909; AU 2016266050 A1 20170615; CA 2949788 A1 20170601; CN 106812197 A 20170609; CN 106812197 B 20191018; JP 2017141659 A 20170817; TR 201617643 A2 20170621; TW 201723279 A 20170701; TW I649483 B 20190201; US 2017152655 A1 20170601

DOCDB simple family (application)
EP 16200187 A 20161123; AU 2016266050 A 20161201; CA 2949788 A 20161128; CN 201510866691 A 20151201; JP 2016231131 A 20161129; TR 201617643 A 20161201; TW 105138863 A 20161125; US 201615366245 A 20161201