

Title (en)  
DISCHARGE DEVICE, IN PARTICULAR TOILET FLUSHER, HAVING A TANK THAT CAN BE COUPLED

Title (de)  
ABGABEVORRICHTUNG, INSBESONDERE WC-SPÜLER, MIT KOPPELBAREM BEHÄLTER

Title (fr)  
DISPOSITIF DISTRIBUTEUR, NOTAMMENT CHASSE D'EAU DE WC, AVEC RÉCIPIENT ACCOUPLABLE

Publication  
**EP 2398971 A1 20111228 (DE)**

Application  
**EP 10702829 A 20100130**

Priority  
• EP 2010000560 W 20100130  
• DE 102009009591 A 20090219

Abstract (en)  
[origin: WO2010094395A1] The invention relates to a toilet flusher for discharging a preparation (4) into the interior of a toilet bowl (8), comprising a metering device (2), at least one tank (3) that can be coupled to the metering device for storing at least one preparation (4), a discharge element (6) for discharging the preparation (4) into the interior of the toilet bowl (8), wherein the discharge element (6) is connected to the tank (3) by means of a communicating line (9), and the floor of the tank (3) is disposed above the discharge opening of the discharge element (6) in the direction of gravity, so that a height difference  $\Delta h$  is formed between the tank floor and the discharge opening of the discharge element (6), wherein the line (9) runs above the fill level of the preparation (4) at least in segments in the coupled state of the tank (3) and the metering device (2), so that a height difference of  $\Delta H$  is formed in the flow direction of the preparation (4) through the line (9) opposite the direction of gravity, a mandrel (15) communicating with the line (9) is disposed on the metering device (2) and acts together with the tank (3) that can be coupled, such that the mandrel (15) displaces a volume  $\Delta v$  of preparation when the tank (3) is coupled to the metering device (2), whereby a pressure  $\Delta p$  is generated in the tank (3) and drives the preparation (4) past the height difference  $\Delta H$  into the line (9).

IPC 8 full level  
**E03D 9/00** (2006.01); **B65D 51/00** (2006.01); **E03D 9/03** (2006.01)

CPC (source: EP US)  
**E03D 9/005** (2013.01 - EP US); **E03D 9/032** (2013.01 - EP US); **E03D 9/038** (2013.01 - EP US)

Citation (search report)  
See references of WO 2010094395A1

Designated contracting state (EPC)  
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 SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2010094395 A1 20100826**; EP 2398971 A1 20111228; EP 2398971 B1 20171227; ES 2661214 T3 20180328; US 2011296598 A1 20111208; US 8402570 B2 20130326

DOCDB simple family (application)  
**EP 2010000560 W 20100130**; EP 10702829 A 20100130; ES 10702829 T 20100130; US 201113211492 A 20110817