

Title (en)

ROTARY TOILET PLUNGER AND VALVE, DRIVE, AND BRAKE DEVICES

Title (de)

DREHBARER TOILETTENKOLBEN SOWIE VENTIL, ANTRIEB UND BREMSVORRICHTUNGEN

Title (fr)

PISTON ET VALVE DE TOILETTES ROTATIVES, ENTRAÎNEMENT, ET DISPOSITIFS DE FREIN

Publication

EP 3225755 A1 20171004 (EN)

Application

EP 15831623 A 20150807

Priority

- CN 201410398775 A 20140809
- CN 201410410660 A 20140820
- CN 201410449453 A 20140901
- CN 201410474906 A 20140917
- CN 201410563447 A 20141021
- CN 201410662559 A 20141111
- CN 2015000570 W 20150807

Abstract (en)

A rotary toilet piston (3) includes a housing of the piston and a lifting cylinder (9). A bearing (5) is mounted on an outer wall of a top portion of the lifting cylinder (9), an inner sleeve of the bearing is fixed on an outer wall of the lifting cylinder (9), an outer sleeve of the bearing is mounted in a bearing slot of the piston (3), and the piston (3) and the lifting cylinder (9) can rotate relative to each other by means of the bearing (5). A rotary toilet piston in which a shaft-sleeve structure is used between a rotary piston (3) and a lifting cylinder (9) to replace a bearing structure is further provided. A brake device for controlling the rotary toilet piston, a drive device for driving the rotary toilet piston, a water-jet control device of the rotary toilet piston, and a water-jet pipe of the rotary piston are further provided.

IPC 8 full level

E03D 1/34 (2006.01)

CPC (source: EP)

E03D 3/00 (2013.01); **E03D 2201/40** (2013.01)

Citation (search report)

See references of WO 2016023329A1

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 3225755 A1 20171004; WO 2016023329 A1 20160218

DOCDB simple family (application)

EP 15831623 A 20150807; CN 2015000570 W 20150807