

Title (en)

A DEVICE FOR MANUFACTURING ORGANIC COMPOST FROM EXCREMENT

Title (de)

GERÄT ZUR HERSTELLUNG VON ORGANISCHEM KOMPOST AUS EXKREMENT

Title (fr)

DISPOSITIF POUR LA FABRICATION DE COMPOST ORGANIQUE A PARTIR D'EXCREMENTS

Publication

**EP 1784372 A1 20070516 (EN)**

Application

**EP 05746060 A 20050526**

Priority

- KR 2005001548 W 20050526
- KR 20040039175 A 20040531

Abstract (en)

[origin: US2007199140A1] The present invention relates generally to a device for manufacturing organic compost from human excrements in a toilet to automatically transform human excrements into organic compost. More particularly, the present invention comprises a transport belt installed under a seat disposed on a main body of a toilet, capable of transporting excrements; a stirring room mixing with a stirring blade the excrements transported by the transport belt; a microorganism hopper installed on the upper side of the stirring room, feeding microorganisms into the excrements stirred in the stirring room; a muck collector receiving and storing the excrements crushed in the stirring room; a liquid collector receiving and evaporating urine fallen from the transport belt; an air purifying room drying excrements and urine in the main body, purifying and discharging air through an exhaust pipe; and a controller installed at a side of the main body, controlling electrical operation of the above components. The device for manufacturing organic compost from human excrements in a toilet according to the present invention has advantages that water consumption in the toilet is reduced, contamination of water and environment is reduced since excrement treatment/purifying facility is not required, and organic compost for planting crops is also supplied.

IPC 8 full level

**C05F 3/06** (2006.01); **A47K 11/02** (2006.01); **C05F 3/04** (2006.01)

CPC (source: EP KR US)

**A47K 11/02** (2013.01 - EP KR US); **C05F 3/04** (2013.01 - EP KR US); **C05F 3/06** (2013.01 - EP KR US); **Y02A 40/20** (2017.12 - EP US); **Y02A 50/30** (2017.12 - EP US); **Y02P 20/145** (2015.11 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**US 2007199140 A1 20070830**; CN 100460363 C 20090211; CN 1964933 A 20070516; EP 1784372 A1 20070516; EP 1784372 A4 20110720; KR 100595742 B1 20060703; KR 20050113994 A 20051205; WO 2005115946 A1 20051208

DOCDB simple family (application)

**US 56912005 A 20050526**; CN 200580018476 A 20050526; EP 05746060 A 20050526; KR 20040039175 A 20040531; KR 2005001548 W 20050526