

Title (en)

Device for automatically gravity-operated locking and unlocking of the lid of a container and container equipped with such a device

Title (de)

Vorrichtung zum automatisch durch Schwerkraft Verriegeln und Entriegeln des Deckels eines Behälters sowie Behälter mit einer derartigen Vorrichtung

Title (fr)

Dispositif automatique par gravite de verrouillage / deverrouillage du couvercle d'un bac et bac equipe d'un tel dispositif

Publication

EP 1081063 B1 20051207 (FR)

Application

EP 00402395 A 20000830

Priority

FR 9911081 A 19990903

Abstract (en)

[origin: EP1081063A1] The gravity lock consists of a catch (9c) engaging with aligned holes (10, 11) in the body (4) of the bin and its lid (2). The catch is located on the end of a lever (8d) connected by its pivot (8c) to an arm (8b) with a weight (8a) on its free end. In the locked position the arm is held in place by a pivoted hook (7d) with a second weighted arm (7e). When the bin is tipped for emptying into a collecting vehicle the weight (7a) on the hook arm disengages the hook, and the weight on the lever arm withdraws the catch, allowing the lid to open. The lid and bin body are e.g. of moulded plastic.

IPC 1-7

B65F 1/16; **E05B 15/00**

IPC 8 full level

B65F 1/16 (2006.01); **E05B 15/00** (2006.01)

CPC (source: EP US)

B65F 1/1615 (2013.01 - EP US); **E05B 15/0093** (2013.01 - EP US); **Y10T 292/0937** (2015.04 - EP US)

Cited by

EP2769933A1; GB2361742A; GB2361742B; GB2406260A; GB2406260B; US2022106112A1; US2015048630A1; US9506277B2; US9828177B2

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