

Title (en)
CIRCULAR PLASTIC CONTAINER LOCKING STRUCTURE

Title (de)
VERRIEGELUNGSSTRUKTUR FÜR KREISFÖRMIGEN KUNSTSTOFFBEHÄLTER

Title (fr)
STRUCTURE DE VERROUILLAGE DE CONTENEURS EN PLASTIQUE CIRCULAIRE

Publication
EP 3048062 B1 20170628 (EN)

Application
EP 16151843 A 20160119

Priority
CN 201520037768 U 20150120

Abstract (en)
[origin: EP3048062A1] A circular plastic container locking mechanism comprises a barrel body (11) and a barrel cover (12), wherein a plurality of barrel cover threaded strips (2) are arranged on the inner side of the barrel cover, a rack (1) is arranged on a surface, connected with the barrel body, on the barrel cover, a plurality of barrel body threaded strips (13) are arranged on the outer-side periphery of an edge opening of the barrel body, the barrel cover threaded strips are matched with the barrel body threaded strips, a set of gear (9) is arranged on the edge of an upper opening of the barrel body, a gear-fixing central shaft (8) is arranged in the gear, and the gear is connected with a gear handle (10); when the barrel body is stationary, the gear handle drives the gear to rotate towards a counter-clockwise direction, and with the rotating function of the gear, the rack on the barrel cover and the whole barrel cover are driven to move towards a clockwise direction, ten times of the force for locking the barrel body and the barrel cover up and down can be produced with only a small amount of force by utilizing the lever effect of the gear handle and the effect of thread slope movement on the gear to lock the barrel cover and the barrel body; when the gear handle swings towards the clockwise direction, the barrel cover moves towards the counter-clockwise direction, and then the barrel cover is unlocked; and therefore locking and unlocking are very convenient

IPC 8 full level
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Cited by
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