

Title (en)

Shipping and storage drum with screw-on locking cover

Title (de)

Versand- und Lagertonne mit Schraubverschlussdeckel

Title (fr)

Conteneur d'expédition et de stockage doté d'un couvercle de verrouillage à vis

Publication

EP 2003065 A1 20081217 (EN)

Application

EP 07253348 A 20070824

Priority

US 81199307 A 20070613

Abstract (en)

A shipping and storage drum (20) with a screw on locking cover comprises an open head drum (22), a plastic cover (24) and a locking member. The open head drum comprises a sidewall open at a top end by a threaded plastic chime (34). The chime (34) comprises an annular wall having a rounded top edge (38) with a plurality of thread segments (110) and a flange (46) extending outwardly from the annular wall below the thread segments and having a flange opening. Each thread segment (40) comprises a plurality of threads extending outwardly from the annular wall. The thread segments are circumferentially spaced by non-threaded portions. A circumferential length of each non-threaded portion is similar to a circumferential length of each thread segment. The plastic cover has a central circular wall surrounded by a downwardly opening generally U-shaped wall for receiving the chime. The U-shaped wall comprises an outer annular sidewall and an inner annular sidewall connected by a rounded channel for sandwiching the chime. A flange extends outwardly from the outer annular sidewall and has a flange opening. The outer annular wall has a plurality of inwardly extending thread segments each having a plurality of threads. The thread segments are circumferentially spaced by non-threaded portions. A circumferential length of each non-threaded portion is similar to a circumferential length of each thread segment. The cover is selectively screwed onto the chime with a fractional turn of the cover with the chime rodged top edge being sealed in the rounded channel. The locking member is insertable through the flange openings to prevent the cover from backing off of the drum.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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- [X] JP 2000085805 A 20000328 - TOYO ECHO KK
- [YA] US 5676273 A 19971014 - JONKERS GODEFRIDUS HUBERTUS JO [NL], et al
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EP2374414A1; US9156223B2; WO2015060806A1

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