

Title (en)
Swivel-up type dispensing package.

Title (de)
Drehartige Spenderverpackung.

Title (fr)
Emballage distributeur du type tournant.

Publication
EP 0312165 B1 19940518 (EN)

Application
EP 88202250 A 19881007

Priority
US 10884087 A 19871015

Abstract (en)
[origin: EP0312165A2] A dispensing package which automatically relieves residual pressure on a cream product and dispenses this product in incremental doses is disclosed. The package uses a feed screw (31) to drive an elevator (27) which impels the cream product in a unidirectional manner. The drive of the feed screw (31) is superimposed with reciprocatory motion caused by internal cams which retract the elevator (27). By intermittently retracting the elevator (27) a suitable distance, discrete amounts of the product are dispensed for each cycle and the residual pressure on the product is relieved, preventing it from weeping onto the applying surface (22) of the dispenser. The dispensing package is well suited to contain and dispense cream deodorants and antiperspirants.

IPC 1-7
A45D 40/04

IPC 8 full level
A45D 40/04 (2006.01)

CPC (source: EP)
A45D 40/04 (2013.01)

Cited by
AU746964B2; DE102007022255B4; US5839622A; AU720962B2; FR2664509A1; US5372444A; JP2008213858A; US5833382A; US5547302A; US5007755A; USRE34751E; US6398439B1; US10194730B2; USD890434S; US6592278B1; WO2010149531A2; DE102007022255A1; US8403584B2; EP2221039A1; WO2010094546A2; WO0064303A1; US6450716B1; US10625927B2; EP2181692A1; US10315832B2; EP2181691A1; US10427859B2; WO2007141146A1; WO9716088A1; WO2018129219A1; WO9200689A1; US7874756B2; USD848611S; US11040181B2; USD940303S; WO9603899A1; WO9104690A1; WO2016062584A1

Designated contracting state (EPC)
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0312165 A2 19890419; EP 0312165 A3 19910206; EP 0312165 B1 19940518; AT E105680 T1 19940615; AU 2392288 A 19890420; AU 623350 B2 19920514; BR 8805360 A 19890613; DE 3889613 D1 19940623; DE 3889613 T2 19950112; ES 2052689 T3 19940716

DOCDB simple family (application)
EP 88202250 A 19881007; AT 88202250 T 19881007; AU 2392288 A 19881017; BR 8805360 A 19881017; DE 3889613 T 19881007; ES 88202250 T 19881007