

Title (en)

Apparatus for packaging trays containing products in a modified atmosphere

Title (de)

Vorrichtung zur Verpackung von Ablagen mit Produkten in einer modifizierten Atmosphäre

Title (fr)

Appareil pour emballer des plateaux contenant des produits dans une atmosphère modifiée

Publication

**EP 1842776 B1 20090819 (EN)**

Application

**EP 07104527 A 20070320**

Priority

IT BO20060249 A 20060405

Abstract (en)

[origin: EP1842776A2] The apparatus comprises a horizontal drawer (3) with an opening (103) through which the body of the tray to be packaged can pass, said tray with its edge (B) resting on the upper, horizontal and flat side of an annular rim (1) which surrounds the said opening and, around this rim, the drawer has a continuous annular channel (4), the outer shoulder (104) of which has a height greater than that of the inner shoulder and opens out on the upper side (203) of the said drawer which is thus at a height greater than that of the said rim (1) and the upper edge (B) of the tray positioned on the latter. Means are envisaged for extending over the upper side of the said drawer with the tray inside it a length of barrier film (112) and foil-pressing means (17) are envisaged for pressing, when operated, the film onto the upper side of the drawer (3), at a due distance from the outer shoulder of the said annular channel (4), all of which so as to form a packaging chamber (C) which is substantially closed with respect to the exterior and is defined at the bottom by the tray (V), at the top by the said barrier film and along the sides by the said annular channel (4) which has along at least one side one or more openings (7) through which, upon operation, the modified atmosphere may be blown into the said chamber (C), while on the opposite side of the said annular channel (4) one or more discharge openings (10) are provided, through which openings firstly the air contained inside the tray, pushed by the front edge of the incoming modified atmosphere, is able to pass out and also part of the said modified atmosphere can pass out. Once packaging of the said chamber has been completed, a heat-welding plate (21) is lowered and pushed onto the edge (B) of the tray so as to heat-weld onto the latter the said closing film (112) and trap in the packaging thus formed the quantity of modified atmosphere useful for conserving the product, following which, after the heat-welding, cutting means (27) are activated and separate from the film the closed tray.

IPC 8 full level

**B65B 31/02** (2006.01)

CPC (source: EP)

**B65B 31/028** (2013.01); **B65B 31/043** (2013.01)

Cited by

EP2676888A1; DE102012005891A1; CN112638779A; ITBO20100045A1; US10741432B2; EP2468633A1; CN114408286A; CN110626534A; EP2380810A3; ITMI20100471A1; CN104003018A; CN107660192A; AU2016270276B2; ITMI20092003A1; EP4221963A4; US2022063849A1; US11530062B2; US11981471B2; US9150316B2; EP3095717A1; JP2021031179A; WO2014080053A1; WO2011092103A1; WO2009144714A3; WO2020044031A1; WO2016193006A1; US9481480B2; ITBO20100211A1; AU2011237995B2; EP3733528A1; DE102019206280A1; US9555910B2; US11492160B2; WO2011124548A1; WO2020002934A1; WO2022099197A1; EP3733528B1; EP2555981B1

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 LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1842776 A2 20071010; EP 1842776 A3 20071031; EP 1842776 B1 20090819;** AT E440031 T1 20090915; DE 602007001993 D1 20091001; ES 2331210 T3 20091223; IT BO20060249 A1 20071006

DOCDB simple family (application)

**EP 07104527 A 20070320;** AT 07104527 T 20070320; DE 602007001993 T 20070320; ES 07104527 T 20070320; IT BO20060249 A 20060405