

Title (en)

A FORMING APPARATUS FOR AN ELEVATED BOTTOM CARTON

Title (de)

FORMGEBUNGSVORRICHTUNG EINES ERHÖHTEN BODENS EINER KARTONPACKUNG

Title (fr)

APPAREIL DE FORMAGE POUR CARTON A FOND SURELEVE

Publication

**EP 1064146 A1 20010103 (EN)**

Application

**EP 98953681 A 19981019**

Priority

- US 9822002 W 19981019
- US 5240198 A 19980331
- US 12818398 A 19980803

Abstract (en)

[origin: WO9950054A1] A bottom forming apparatus having a mandrel cap and a sealing plate configured to create a carton with an elevated bottom. The present invention alleviates the problem of cartons having soggy bottoms since the point of absorption, the raw paperboard edge, is elevated above the moisture which may be present during distribution from the packaging machine to the retailer. The elevated bottom portion is actually inverted into the carton with planar portions resting on the surface to support the carton. The sealing plate has a multitude of elevated portions and the mandrel cap has a recess and an angled edge for elevating the raw paperboard edge. The various embodiments of the sealing plate are able to elevate most carton bottom configurations including the standard TETRA REX3 carton and the TETRA REX3 sixth panel with skived edge carton.

IPC 1-7

**B31B 3/28**; B65D 5/06; B65D 5/42

IPC 8 full level

**B31B 3/28** (2006.01)

CPC (source: EP US)

**B31B 50/00** (2017.07 - EP); **B31B 50/322** (2017.07 - EP US); **B31B 50/64** (2017.07 - EP)

Citation (search report)

See references of WO 9950054A1

Designated contracting state (EPC)

DE ES FI FR GB IT NL

DOCDB simple family (publication)

**WO 9950054 A1 19991007**; AU 1100099 A 19991018; AU 745817 B2 20020411; CA 2317715 A1 19991007; CA 2317715 C 20050726; DE 69831099 D1 20050908; DE 69831099 T2 20060413; EP 1064146 A1 20010103; EP 1064146 B1 20050803; ES 2243011 T3 20051116; NO 20003392 D0 20000629; NO 20003392 L 20000804; NO 325837 B1 20080728

DOCDB simple family (application)

**US 9822002 W 19981019**; AU 1100099 A 19981019; CA 2317715 A 19981019; DE 69831099 T 19981019; EP 98953681 A 19981019; ES 98953681 T 19981019; NO 20003392 A 20000629