

Title (en)  
BOTTOM FOLDER PACKAGING DEVICE

Publication  
**EP 0286846 B1 19920102 (DE)**

Application  
**EP 88103983 A 19880314**

Priority  
DE 3712717 A 19870414

Abstract (en)  
[origin: US4862680A] Apparatus for the packaging of cigarettes by successively folding inner and outer wrappers about a hollow open-ended mandrel, plural of the mandrels being supported from a rotary turret which is moved in step-wise fashion, which enables the use of a metalized foil as the inner wrapper. The apparatus establishes communication between a low pressure source and the interior of the mandrel during at least a portion of the wrapper folding procedure with the resulting suction being applied to the inner wrapper via an open end of the mandrel and through an array of holes provided in the side of the mandrel where opposite free ends of the inner wrapper are positioned after folding.

IPC 1-7  
**B65B 19/24**

IPC 8 full level  
**B65B 19/02** (2006.01); **B65B 19/22** (2006.01); **B65B 19/24** (2006.01)

CPC (source: EP US)  
**B65B 19/24** (2013.01 - EP US); **Y10S 493/91** (2013.01 - EP US)

Cited by  
EP1060989A1; US6537187B1

Designated contracting state (EPC)  
BE DE FR GB IT NL SE

DOCDB simple family (publication)  
**EP 0286846 A2 19881019; EP 0286846 A3 19900307; EP 0286846 B1 19920102**; CN 1009541 B 19900912; CN 88101169 A 19881026; DD 268438 A5 19890531; DE 3712717 A1 19881103; DE 3867290 D1 19920213; JP S63258718 A 19881026; SU 1724009 A3 19920330; US 4862680 A 19890905

DOCDB simple family (application)  
**EP 88103983 A 19880314**; CN 88101169 A 19880303; DD 31439088 A 19880404; DE 3712717 A 19870414; DE 3867290 T 19880314; JP 6468088 A 19880317; SU 4355096 A 19880202; US 18159588 A 19880414