

Title (en)  
DEVICE FOR EXPULSING ROD-LIKE OBJECTS

Publication  
**EP 0133664 B1 19870930 (DE)**

Application  
**EP 84108729 A 19840724**

Priority  
DE 3328323 A 19830805

Abstract (en)  
[origin: US4685554A] Partially completed cigarette packages are ejected from cells mounted on a turret of a wrapping machine by a pusher device which is caused to both reciprocate axially with respect to the cells and also to move with the cells over a limited arcuate range. The reciprocating motion is controlled so that the impact speed of the pusher device on the cigarettes is low while the average pusher device speed is relatively high. The arcuate motion of the pusher device is controlled so that the time required to complete the ejection and withdrawal strokes thereof can be greater than the dwell time between steps of motion of the cells. A back-up member moves in synchronism with the pusher device during the ejection stroke to prevent opening of the package end opposite to that corresponding to the operating region of the pusher device.

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

IPC 8 full level  
**A24C 5/47** (2006.01); **B65B 19/12** (2006.01); **B65B 19/22** (2006.01); **B65B 19/24** (2006.01); **B65B 35/40** (2006.01); **B65G 47/82** (2006.01); **B65G 47/84** (2006.01)

CPC (source: EP US)  
**B65B 19/24** (2013.01 - EP US)

Cited by  
EP0367041A1

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

DOCDB simple family (publication)  
**EP 0133664 A2 19850306; EP 0133664 A3 19860219; EP 0133664 B1 19870930**; CS 249143 B2 19870312; DD 218875 A5 19850220; DE 3328323 A1 19850221; DE 3466512 D1 19871105; JP H0455933 B2 19920904; JP S6054668 A 19850329; SU 1286102 A3 19870123; US 4685554 A 19870811

DOCDB simple family (application)  
**EP 84108729 A 19840724**; CS 584284 A 19840730; DD 26596484 A 19840803; DE 3328323 A 19830805; DE 3466512 T 19840724; JP 16472784 A 19840806; SU 3755803 A 19840702; US 80834185 A 19851212