

Title (en)  
Modular packing assembly

Title (de)  
Modulares Verpackungssystem

Title (fr)  
Système d'emballage modulaire

Publication  
**EP 1645513 A2 20060412 (EN)**

Application  
**EP 04255730 A 20040921**

Priority  
EP 04255730 A 20040921

Abstract (en)

A cigarette packing system comprises a plurality of reconfigurable modules (100). Each module includes tooling for performing a section of the packaging process. Product is transferred between modules by robots (110) mounted on the modules and controlled from individual modules. Interface protocols between modules control transfers between modules. The product may be transferred with or without a carrier between modules. The modules may be reconfigured for a different assembly process and modules added or removed. Process specific tooling maybe changed. Reconfigurable modules reduces the time and cost of changing to a different packaging process.

IPC 8 full level  
**B65B 59/04** (2006.01); **B65B 19/22** (2006.01); **B65B 65/00** (2006.01)

CPC (source: EP KR)  
**B65B 19/22** (2013.01 - KR); **B65B 19/223** (2013.01 - EP); **B65B 59/04** (2013.01 - EP KR); **B65B 65/00** (2013.01 - KR);  
**B65B 65/003** (2013.01 - EP)

Cited by

CN109689508A; DE102009045947A1; DE102006045292A1; EP2821865A1; EP3543152A1; DE102008001287A1; EP2138447A1;  
DE102007017646A1; EP3059173A3; EP2460733A1; US12005184B2; US10179668B2; WO2018024365A1; WO2016124323A1;  
WO2008090071A1; WO2016142034A1; WO2021144788A1; WO2021259553A1; EP2928327B1; EP3448187B1

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CN 101022996 B 20100707; DE 602005009218 D1 20081002; EA 010040 B1 20080630; EA 200700704 A1 20070831;  
EP 1791757 A1 20070606; EP 1791757 B1 20080820; ES 2309794 T3 20081216; KR 101189870 B1 20121010; KR 20070062525 A 20070615;  
PL 1791757 T3 20090227; WO 2006032874 A1 20060330

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DE 602005009218 T 20050921; EA 200700704 A 20050921; EP 05784364 A 20050921; ES 05784364 T 20050921;  
GB 2005003629 W 20050921; KR 20077006488 A 20050921; PL 05784364 T 20050921