

Title (en)  
Packaging machine, especially for cigarettes

Title (de)  
Verpackungsmaschine, insbesondere für Zigaretten

Title (fr)  
Machine d'emballage, spécialement pour cigarettes

Publication  
**EP 0521538 B1 19970305 (DE)**

Application  
**EP 92116860 A 19880518**

Priority  
• DE 3721091 A 19870626  
• EP 88107906 A 19880518

Abstract (en)  
[origin: EP0296356A2] For supplying efficient packaging machines with web-shaped packaging material wound into reels (11, 11a, 12), a reel-changing device is proposed in which two working spindles (13, 14) are alternatively charged with ("full") reels (11a), while the respective, other working spindle carries the working reel (12) which unwinds in the meantime. The new reels (11a) are taken from a reel stock (18) by a transfer arm (21) provided with transfer spindles (22) and by pivoting to the one or other side are moved into an axially identical position with the one or other working spindle (13, 14). When the positioning is identical, reel (11a) is pushed onto the empty working spindle (13, 14). For this purpose, the transfer arm (21) is swivellable and can be displaced axially parallel with respect to the working spindles (13, 14). <IMAGE>

IPC 1-7  
**B65B 41/12**; **B65H 19/12**

IPC 8 full level  
**B65B 41/12** (2006.01); **B65B 43/08** (2006.01); **B65H 19/10** (2006.01); **B65H 19/12** (2006.01)

CPC (source: EP US)  
**B65B 41/12** (2013.01 - EP US); **B65H 19/123** (2013.01 - EP US); **B65H 2301/413223** (2013.01 - EP US); **B65H 2301/413243** (2013.01 - EP US); **B65H 2301/4172** (2013.01 - EP US); **B65H 2301/4173** (2013.01 - EP US); **B65H 2301/41745** (2013.01 - EP US); **Y10S 414/124** (2013.01 - EP US)

Cited by  
EP0943568A1; US6076763A; CN1093829C

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 0296356 A2 19881228**; **EP 0296356 A3 19900321**; **EP 0296356 B1 19930811**; BR 8803124 A 19890124; CA 1294525 C 19920121; DE 3721091 A1 19890105; DE 3855815 D1 19970410; DE 3883091 D1 19930916; EP 0521538 A2 19930107; EP 0521538 A3 19930630; EP 0521538 B1 19970305; JP 2553640 B2 19961113; JP S6438360 A 19890208; US 4896842 A 19900130; US 5135103 A 19920804

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