

Title (en)

MAKING, MAINTAINING AND TENSIONING A TYING LOOP

Publication

**EP 0456604 B1 19930303 (DE)**

Application

**EP 91810323 A 19910429**

Priority

CH 159490 A 19900510

Abstract (en)

[origin: CA2042193A1] A tying machine for packaging articles in stack form comprises a band guide (12) limiting the extension of the loop and having a sliding surface (16). During the advance and after the end position has been reached, a winding band (18) is maintained by pneumatic means in a loop form determined essentially by the sliding surface (16), during the band pull-back is drawn out of the band guide (12) without the movement of any mechanical parts and is laid round the packaging articles. The band guide (12) with the sliding surface (16) and lateral guides (36, 38) for maintaining the winding band (18) in a loop form has exclusively pneumatic means. (Figure 2)

IPC 1-7

**B65B 13/06**

IPC 8 full level

**B65B 13/06** (2006.01)

CPC (source: EP US)

**B65B 13/06** (2013.01 - EP US)

Cited by

NL9400112A; US5755084A; EP2636604A1; US7475845B2; WO9519913A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

**EP 0456604 A1 19911113; EP 0456604 B1 19930303;** AT E86198 T1 19930315; CA 2042193 A1 19911111; CA 2042193 C 19940412; CH 681074 A5 19930115; DE 59100049 D1 19930408; ES 2040148 T3 19931001; JP 3083342 B2 20000904; JP H05254507 A 19931005; TW 208686 B 19930701; US 5168686 A 19921208

DOCDB simple family (application)

**EP 91810323 A 19910429;** AT 91810323 T 19910429; CA 2042193 A 19910509; CH 159490 A 19900510; DE 59100049 T 19910429; ES 91810323 T 19910429; JP 13543191 A 19910510; TW 80103472 A 19910619; US 69525291 A 19910503