Title (en)
DEVICE FOR TENSIONING AND SEALING A PLASTIC TYING STRAP

Publication
EP 0357902 B1 19931006 (DE)

Application
EP 89112094 A 19890703

Priority
CH 336488 A 19880908

Abstract (en)
[origin: EP0357902A1] At the end of the tensioning operation, the uppermost section (3b) of the tying strap (3) is secured by means of a clamping device (16), which, relative to a friction welding device (8) lies opposite the slotted wheel (14) of a strap tensioning device (13). The return lock of the slotted wheel (14) is then released. The slotted wheel (14) is rotated backwards by the relaxing strap section (3c) between slotted wheel (14) and clamping device (16), counter to the tensioning direction (D). A friction brake arranged on the shaft of the slotted wheel (14) locks the slotted wheel (14) before the said strap section (3c) has completely relaxed. When the uppermost strap section (3b) is parted by a ripping knife (12), after the overlapping strap ends (3a', 3b') have been welded, this uppermost strap section (3b) is thus under a certain tensile stress, which however is less than the tensile stress after the completion of the tensioning operation. As a result a clean cut is achieved without damage to the tying strap (3). <IMAGE>

IPC 1-7
B65B 13/32

IPC 8 full level
B65B 13/22 (2006.01); B65B 13/32 (2006.01)

CPC (source: EP KR US)
B65B 13/20 (2013.01 - KR); B65B 13/327 (2013.01 - EP US)

Cited by
EP0499042A1; DE102006010912A1

Designated contracting state (EPC)
AT BE CH DE ES FR GB IT LI NL

DOCDB simple family (publication)
EP 0357902 A1 19900314; EP 0357902 B1 19931006; AT E95475 T1 19931015; DE 58905827 D1 19931111; DK 422089 A 19900309; DK 422089 D0 19890828; JP H02109814 A 19900423; KR 900004598 A 19900412; PT 91626 A 19900330; PT 91626 B 19950718; US 5058365 A 19911022

DOCDB simple family (application)
EP 89112094 A 19890703; AT 89112094 T 19890703; DE 58905827 T 19890703; DK 422089 A 19890828; JP 22636789 A 19890831; KR 890011954 A 19890822; PT 9162689 A 19890904; US 40484889 A 19890908