

Title (en)
Tension mechanism for strapping tool

Title (de)
Spannvorrichtung für Bindewerkzeug

Title (fr)
Dispositif de tension pour outil de cerclage

Publication
EP 0838400 A1 19980429 (EN)

Application
EP 97308365 A 19971021

Priority
US 73696396 A 19961025

Abstract (en)
In a pneumatically operable strapping tool (10), a tension lever (24) is provided for controlling an internal pneumatic or air control valve which, in turn, controls an air motor drive operatively connected to a feedwheel (18) which tensions the strapping, disposed about an article or package to be strapped to a predetermined tension level. A seal lever (36) is provided in conjunction with the tension lever (24) so that upon completion of the tensioning phase of the strapping operation, the seal lever (36) is actuated to initiate the sealing phase of the strapping operation. To prevent a partial loss or a reduction of the tension level within the strapping which normally occurs during the transition between the tensioning and sealing phases of the strapping operation, the seal lever (36) is provided with a tang, tab, or ear member (40) which physically engages the tension lever (24) so as to maintain the tension lever at its operative or active position during the sealing phase of the strapping operation. In this manner, the tensioning phase of the strapping operation is not prematurely terminated and termination of the tensioning phase of the strapping operation is effectively delayed until the sealing phase of the strapping operation has been completed. Therefore, a proper tension level within the sealed strapping is achieved. <IMAGE>

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IPC 8 full level
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CPC (source: EP KR)
B25B 27/0092 (2013.01 - KR); **B25B 27/02** (2013.01 - KR); **B65B 13/188** (2013.01 - EP); **B65B 13/345** (2013.01 - EP)

Citation (applicant)
US 3552450 A 19710105 - PLUNKETT LARRY D

Citation (search report)
• [A] GB 1054034 A
• [A] US 5518043 A 19960521 - CHEUNG NELSON [US], et al
• [A] EP 0664256 A1 19950726 - ORGAPACK AG [CH]
• [A] FR 2456037 A1 19801205 - BORBE WANNER AG [CH]

Cited by
EP3819084A3; US1199516B2; US11530059B2; US11731794B2

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