

Title (en)

Method and device for controlling the height of a web in a packaging machine

Title (de)

Verfahren und Vorrichtung zur Steuerung der Höhe einer Bahn in einer Verpackungsmaschine

Title (fr)

Procédé et appareil pour contrôler la hauteur d' une bande dans une machine d' emballage

Publication

EP 1203717 A1 20020508 (EN)

Application

EP 01309332 A 20011102

Priority

US 24561100 P 20001103

Abstract (en)

A packaging machine (10) that uses cylinders to automatically adjust the pressure gradient on a web feed roller system is presented. The cylinders (106,108) are controlled by an air operated or an electrical sensing device that senses the edge of the web (14). When the sensor (104) detects the web (14) rising it will increase the pressure on bottom of the feed rollers (44) and lower the pressure at the top. This action drives the web down. When the web falls below the proper height the reverse happens and the web is driven back up. This system creates a seeking process that is always driving the web to the correct height. The system can also be used on a pivoting feed roller system. The sensor feedback turns an eccentric that changes the pressure gradient, moving the web to the proper height. <IMAGE>

IPC 1-7

B65B 9/08; **B65B 59/02**; **B65B 57/04**; **B65H 23/038**

IPC 8 full level

B65B 9/093 (2012.01); **B65B 57/04** (2006.01); **B65B 59/02** (2006.01); **B65H 23/038** (2006.01)

CPC (source: EP US)

B65B 5/022 (2013.01 - EP); **B65B 9/093** (2013.01 - EP US); **B65B 57/04** (2013.01 - EP US); **B65B 59/003** (2019.04 - EP US); **B65B 59/02** (2013.01 - EP US); **B65H 23/038** (2013.01 - EP US); **B65H 2301/3113** (2013.01 - EP US); **B65H 2301/321** (2013.01 - EP US); **B65H 2515/34** (2013.01 - EP US); **B65H 2553/10** (2013.01 - EP US); **B65H 2801/69** (2013.01 - EP US)

Citation (applicant)

- US 5722217 A 19980303 - CLOUD CHARLES E [US]
- US 5181365 A 19930126 - GARVEY JOSEPH F [US], et al
- US 18535598 A 19981103

Citation (search report)

- [A] EP 0771730 A2 19970507 - CLOUD CORP [US]
- [A] US 4212422 A 19800715 - BARTON HARVEY R JR [US], et al
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