

Title (en)

Method and apparatus for providing tension control of a web of bags in a packaging machine

Title (de)

Verfahren und Vorrichtung für die Spannungskontrolle eines Beutelbandes in einer Verpackungsmaschine

Title (fr)

Procédé et appareil pour contrôler la tension d'une bande de sachets dans une machine d'emballage

Publication

EP 0754627 B1 19990616 (EN)

Application

EP 96202561 A 19930826

Priority

- EP 93306802 A 19930826
- US 93692592 A 19920827
- US 95430592 A 19920930
- US 95437892 A 19920930

Abstract (en)

[origin: EP0586201A1] An improved packaging machine that has improved features for feeding a web (11) in the form of a continuous chain of bags through the machine while helping maintain the web in proper alignment and proper tension, and having additional features for improved loading of the bags. The improved web feed includes a dancer assembly equipped with a pair of nips that are driven at speeds responsive to the rate of web travel through the machine so that tension between a web supply and the dancer nips is isolated from the downstream portions of the web. A web feed mechanism which automatically threads the web through baggers is also provided. The web feed mechanism includes elastic belts (76,77) which frictionally grip the web to isolate the tension in the section between the dancer nips and the belts from the tension of the web feed mechanism. Nips (73,74) adjacent the load station and at the downstream end of the web feed mechanism have surface speeds exceeding the surface speed of the belts to maintain tension on the web through the web feed mechanism and effect a slight pre-opening of the bags before they are delivered to the load station. Other features include a cantilevered support of the web supply and bagger, a bagger support which functions as a plenum, an improved dancer assembly, and improved application of compressed air for bag opening. <IMAGE>

IPC 1-7

B65B 43/12; **B65B 57/04**

IPC 8 full level

B65B 43/12 (2006.01); **B65B 51/30** (2006.01); **B65B 57/02** (2006.01); **B65B 57/04** (2006.01)

CPC (source: EP)

B65B 43/123 (2013.01); **B65B 51/303** (2013.01); **B65B 57/02** (2013.01); **B65B 57/04** (2013.01)

Designated contracting state (EPC)

DE ES FR GB IT SE

DOCDB simple family (publication)

EP 0586201 A1 19940309; **EP 0586201 B1 19971001**; DE 69303561 D1 19960814; DE 69303561 T2 19961031; DE 69308451 D1 19970410; DE 69314273 D1 19971106; DE 69314273 T2 19980312; DE 69325399 D1 19990722; DE 69325399 T2 19991216; EP 0588520 A1 19940323; EP 0588520 B1 19960710; EP 0592096 A1 19940413; EP 0592096 B1 19970305; EP 0754627 A1 19970122; EP 0754627 B1 19990616; ES 2108830 T3 19980101; ES 2135841 T3 19991101

DOCDB simple family (application)

EP 93306802 A 19930826; DE 69303561 T 19930826; DE 69308451 T 19930826; DE 69314273 T 19930826; DE 69325399 T 19930826; EP 93306800 A 19930826; EP 93306801 A 19930826; EP 96202561 A 19930826; ES 93306802 T 19930826; ES 96202561 T 19930826