

Title (en)

Balloon controlling device and process for the unwinding of yarn from the feeding spool of an automatic spooler

Title (de)

Vorrichtung zur Ballonkontrolle und Verfahren zum Garnabwickeln von der Lieferspule in einer automatischen Wickelmaschine

Title (fr)

Dispositif de contrôle de ballon et procédé pour le dévidage de fil d'une bobine d'alimentation dans une machine automatique de bobinage

Publication

EP 0909736 A2 19990421 (EN)

Application

EP 98203320 A 19981001

Priority

IT MI972330 A 19971015

Abstract (en)

Device and process for containing and controlling the balloon while unwinding the feeding spools in automatic spoolers, in which a balloon containing crossbar is kept close to the upper part of the spooling tube but not in contact with the same: in this manner, the yarn of the balloon is at every turn forced by the bar to re-approach its tube and be contained by the same. The yarn is then passed to a second containing element set above the spool. <IMAGE>

IPC 1-7

B65H 57/22

IPC 8 full level

B65H 57/22 (2006.01)

CPC (source: EP)

B65H 57/22 (2013.01); **B65H 2701/31** (2013.01)

Cited by

CN112723018A; EP2093179A2; EP3984933A1; IT202000024283A1

Designated contracting state (EPC)

BE CH DE ES FR GB GR IE LI PT

DOCDB simple family (publication)

EP 0909736 A2 19990421; **EP 0909736 A3 20000712**; **EP 0909736 B1 20020502**; DE 69805146 D1 20020606; DE 69805146 T2 20021212; ES 2176902 T3 20021201; IT 1295336 B1 19990504; IT MI972330 A1 19990415; PT 909736 E 20020930

DOCDB simple family (application)

EP 98203320 A 19981001; DE 69805146 T 19981001; ES 98203320 T 19981001; IT MI972330 A 19971015; PT 98203320 T 19981001