

Title (en)

Package quality inspection device

Title (de)

Vorrichtung zur Qualitätsüberprüfung von Spulen

Title (fr)

Dispositif pour l'inspection de la qualité de bobines

Publication

EP 0812794 A3 19990107 (EN)

Application

EP 97108327 A 19970522

Priority

JP 14939496 A 19960611

Abstract (en)

[origin: EP0812794A2] The present invention more quickly prevents the production of defective packages by inspecting the package during formation. Specifically, a yarn detection sensor that detects the existence of yarn positioned on the outermost layer of the package is arranged. The package is inspected by a positioning of the yarn detection sensor such that the detection light of this yarn detection sensor passes close to the contact line of between the package and drive drum, and moreover along the side where the yarn is guided onto the package.

IPC 1-7

B65H 63/00

IPC 8 full level

B65H 63/00 (2006.01); **B65H 63/032** (2006.01); **D01H 13/14** (2006.01)

CPC (source: EP)

B65H 63/006 (2013.01); **B65H 2701/31** (2013.01)

Citation (search report)

- [XY] EP 0650915 A1 19950503 - LUWA AG ZELLWEGER [CH]
- [XP] EP 0749929 A2 19961227 - RIETER AG MASCHF [CH]
- [A] DE 4430566 A1 19950706 - BARMAG BARMER MASCHF [DE]
- [XY] PATENT ABSTRACTS OF JAPAN vol. 017, no. 603 (M - 1505) 5 November 1993 (1993-11-05)

Cited by

CN106629248A

Designated contracting state (EPC)

DE IT

DOCDB simple family (publication)

EP 0812794 A2 19971217; **EP 0812794 A3 19990107**; **EP 0812794 B1 20020807**; CN 1167725 A 19971217; DE 69714519 D1 20020912; DE 69714519 T2 20030417; JP 2877079 B2 19990331; JP H09328256 A 19971222

DOCDB simple family (application)

EP 97108327 A 19970522; CN 97100796 A 19970227; DE 69714519 T 19970522; JP 14939496 A 19960611