

Title (en)

Splicing method of core yarns and automatic winder comprising core yarn splicing device

Title (de)

Verfahren zum Spleissen von Kerngarnen und automatische Wickelmaschine mit Kerngarnspleissvorrichtung

Title (fr)

Procédé pour l'épissage d'un fil à âme et bobinoir automatique à dispositif d'épissage de fils à âme

Publication

EP 1344739 B1 20061227 (EN)

Application

EP 03003790 A 20030219

Priority

JP 2002068027 A 20020313

Abstract (en)

[origin: EP1344739A2] The present invention provides a method of splicing two core yarns so that inner layer fibers and outer layer fibers are substantially continuous at their spliced portion. The present invention also provides a spliced portion formed by this method and an automatic winder comprising a device that embodies this method. Compressed air is applied to two core yarns 1A, 1B to untwist their outer layer fibers 11a, 11b. The core yarns 1A, 1B are then cut to form core yarn end surfaces 1a, 1b. The core yarn end surfaces 1a, 1b are then abutted against each other. Subsequently, an adhesive is applied to the abutted portion and then left set. Further, the inner layer fibers 10a, 10b and the outer layer fibers 11a, 11b are substantially continuous at the spliced portion of the core yarns (Fig. 1A). <IMAGE> <IMAGE> <IMAGE>

IPC 8 full level

B65H 69/02 (2006.01); **D01H 15/00** (2006.01)

CPC (source: EP)

B65H 69/02 (2013.01); **B65H 2701/31** (2013.01)

Cited by

EP1990303A1; WO2008135280A1

Designated contracting state (EPC)

DE IT

DOCDB simple family (publication)

EP 1344739 A2 20030917; **EP 1344739 A3 20040114**; **EP 1344739 B1 20061227**; CN 100352984 C 20071205; CN 1443884 A 20030924; DE 60310630 D1 20070208; DE 60310630 T2 20071004; JP 2003267632 A 20030925; JP 3838354 B2 20061025

DOCDB simple family (application)

EP 03003790 A 20030219; CN 03120185 A 20030312; DE 60310630 T 20030219; JP 2002068027 A 20020313