

Title (en)
Spooling machine.

Title (de)
Spulautomat.

Title (fr)
Bobineuse.

Publication
EP 0391101 A1 19901010 (DE)

Application
EP 90104897 A 19900315

Priority
CH 128089 A 19890406

Abstract (en)
[origin: JPH03111377A] PURPOSE: To maintain suitable yarn tension by increasing the rotational speed of a spindle supporting a full bobbin package until yarn is transferred to the other spindle after contact of the full bobbin package formed on the spindle and a contact roller is interrupted in the bobbin changing operation. CONSTITUTION: When the time T1 in which only a control unit 44 perform an open loop control function related to a spindle driving means 14A passes after a control loop extending through a contact roller is interrupted by the interruption of the normal winding operation, a motor 14A and a spindle supporting a full bobbin package are slightly accelerated by the control, the effective winding speed is increased, and yarn tension is maintained. Simultaneously, a contact roller motor 24a is also accelerated by the control unit 44 for the same purpose. After the short acceleration, the rotational speed of the contact roller is again stabilized to the high level. The motor 14A continues acceleration to stretch the yarn after the increase of the rotational speed of the contact roller is finished.

Abstract (de)
Beim verlustlosen Spulenwechsel in einem Spuler mit einer Kontaktwalze (24) und Dornantrieb wird die Drehzahl der Kontaktwalze während des Spulenwechsels gegenüber dem Spulbetrieb erhöht.

IPC 1-7
B65H 54/42; **B65H 59/38**

IPC 8 full level
B65H 54/22 (2006.01); **B65H 54/42** (2006.01); **B65H 54/44** (2006.01); **B65H 67/044** (2006.01); **B65H 67/048** (2006.01)

CPC (source: EP US)
B65H 54/42 (2013.01 - EP US); **B65H 67/048** (2013.01 - EP US); **B65H 2701/31** (2013.01 - EP US)

Citation (search report)
• [AD] EP 0094483 A1 19831123 - RIETER AG MASCHF [CH]
• [AD] EP 0254944 A1 19880203 - TEIJIN SEIKI CO LTD [JP]

Cited by
EP0931749A3; EP0678468A3; US5605293A; US6045084A; CN1089717C; DE19634926A1; US6161789A; DE102012007987A1; WO2005108263A1

Designated contracting state (EPC)
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EP 0391101 A1 19901010; **EP 0391101 B1 19940518**; DE 59005704 D1 19940623; JP 2716837 B2 19980218; JP H03111377 A 19910513; US 5082191 A 19920121

DOCDB simple family (application)
EP 90104897 A 19900315; DE 59005704 T 19900315; JP 8141790 A 19900330; US 50125290 A 19900329