

Title (en)

Method of automatically transferring an elastic yarn from a full-bobbin to an empty-bobbin.

Title (de)

Methode zur automatischen Überführung eines elastischen Fadens von einer vollen auf eine leere Spule.

Title (fr)

Méthode pour le transfert automatique de fils d'une bobine pleine à une vide.

Publication

EP 0359453 A2 19900321 (EN)

Application

EP 89308913 A 19890904

Priority

- JP 13945389 A 19890601
- JP 22328888 A 19880906

Abstract (en)

A method is described of automatically transferring an elastic yarn from a full-bobbin (8a) to an empty-bobbin (8). The yarn transfer operation is performed in a state such that a friction roll (1) is remote from the empty-bobbin (8) around which a yarn to be transferred is wound, and the yarn to be transferred is wound on the empty-bobbin (8) by stopping the full-bobbin (8a).

IPC 1-7

B65H 54/22; **B65H 59/38**

IPC 8 full level

B65H 57/28 (2006.01); **B65H 67/048** (2006.01)

CPC (source: EP KR)

B65H 54/22 (2013.01 - KR); **B65H 57/003** (2013.01 - EP); **B65H 57/28** (2013.01 - EP); **B65H 59/38** (2013.01 - KR); **B65H 67/048** (2013.01 - EP); **B65H 2701/319** (2013.01 - EP)

Cited by

EP1411014A1; EP0680918A3; US5810270A; DE4414180A1; US5566904A; DE4414180C2; US7360354B2; WO2009076898A1; WO2004035446A1

Designated contracting state (EPC)

DE ES GB IT NL

DOCDB simple family (publication)

EP 0359453 A2 19900321; **EP 0359453 A3 19900530**; **EP 0359453 B1 19931118**; DE 68910762 D1 19931223; DE 68910762 T2 19940331; ES 2046488 T3 19940201; KR 900004988 A 19900413; KR 940001580 B1 19940225

DOCDB simple family (application)

EP 89308913 A 19890904; DE 68910762 T 19890904; ES 89308913 T 19890904; KR 890012892 A 19890906