

Title (en)
Method for automatic doffing operation and doffing apparatus

Title (de)
Verfahren und Vorrichtung zum automatischen Spulenwechsel

Title (fr)
Procédé et dispositif pour le changement automatique de bobines

Publication
EP 1693492 A2 20060823 (EN)

Application
EP 06000955 A 20060117

Priority
JP 2005039766 A 20050216

Abstract (en)
The present invention relates to an automatic doffing operation. Conventionally if in spite of a failure in a yarn drawing-out operation, a yarn hooking operation is performed and an empty bobbin is uselessly supplied, an operator is thus forced to remove the bobbin. The present invention includes a full-package taking-out operation step of taking a bobbin (17) with a package (6) out of a cradle, a yarn drawing-out operation step of using a yarn drawing-out device (20) to start drawing out a spun yarn and then catching the spun yarn, and a yarn hooking operation step of supplying an empty bobbin (17) to the cradle and hooking the spun yarn on the bobbin (17) to return a doffing operation to an initial state. If the yarn fails to be caught during the yarn drawing-out operation step, a reverse returning step is executed instead of the yarn hooking operation step to reversely rotate a motor to return the doffing operation to its initial state without executing the yarn hooking operation step.

IPC 8 full level
D01H 9/10 (2006.01)

CPC (source: EP)
D01H 9/10 (2013.01)

Designated contracting state (EPC)
CH DE LI

DOCDB simple family (publication)
EP 1693492 A2 20060823; EP 1693492 A3 20080206; CN 100545332 C 20090930; CN 1821462 A 20060823; JP 2006225092 A 20060831

DOCDB simple family (application)
EP 06000955 A 20060117; CN 200610008519 A 20060216; JP 2005039766 A 20050216