

Title (en)

DOFFING DEVICE, DOFFING CONTROL METHOD AND DOFFING CONTROL APPARATUS

Title (de)

ABNAHMEVORRICHTUNG, ABNAHMESTEUEERVERFAHREN UND ABNAHMESTEUEGERÄT

Title (fr)

DISPOSITIF D'ENLÈVEMENT, PROCÉDÉ DE COMMANDE D'ENLÈVEMENT ET APPAREIL DE COMMANDE D'ENLÈVEMENT

Publication

EP 4101801 A1 20221214 (EN)

Application

EP 22177732 A 20220608

Priority

CN 202110657115 A 20210611

Abstract (en)

Embodiments of this disclosure provide a single doffing device and a single doffing control method and control apparatus. The device includes: a spinning machine workstation (100) having a spinning mechanism (101) and a winding mechanism (102), wherein the winding mechanism (102) is provided with a replaceable tube (1021); a control apparatus (12) configured to, when a yarn is wound into a yarn bobbin (1022) of a predetermined size around the replaceable tube (1021) on the winding mechanism (102), transmit control information for instructing to replace the yarn bobbin (1022) on the winding mechanism (102); and a tube replacement apparatus (202) storing one or more tube(s) (1021) therein and configured to replace the yarn bobbin (1022) on the winding mechanism (102) by using one of the stored tubes upon receipt of the control information. Hence, the yarn bobbin (1022) is replaced with an empty tube (1021) automatically after the yarn winding is completed, thereby eliminating or avoiding artificial intervene, lowering maintenance cost, and improving security and operational efficiency.

IPC 8 full level

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CPC (source: CN EP)

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Citation (search report)

- [X] EP 2657380 A2 20131030 - SAURER GERMANY GMBH & CO KG [DE]
- [X] CN 111441112 A 20200724 - ANHUI RIFA TEXTILE MACHINERY CO LTD
- [X] EP 2345612 A2 20110720 - MURATA MACHINERY LTD [JP]

Designated contracting state (EPC)

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BA ME

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DOCDB simple family (publication)

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