

Title (en)

SERVICE ROBOT OF A RING SPINNING MACHINE, RING SPINNING MACHINE AND A METHOD FOR CONTROLLING GROUPS OF HANDLING MEANS

Title (de)

SERVICEROBOTER EINER RINGSPINNMASCHINE, RINGSPINNMASCHINE UND VERFAHREN ZUM STEUERN VON GRUPPEN VON HANDHABUNGSMITTELN

Title (fr)

ROBOT DE SERVICE D'UNE MACHINE À FILER À ANNEAUX, MACHINE À FILER À ANNEAUX ET PROCÉDÉ POUR COMMANDER DES GROUPES DE MOYENS DE MANIPULATION

Publication

EP 3517662 B1 20210519 (EN)

Application

EP 19152442 A 20190118

Priority

CZ 201835 A 20180124

Abstract (en)

[origin: EP3517662A1] The invention relates to a service robot of a ring spinning machine, arranged displaceably along a row of spinning stations with an option of stopping at a selected spinning station requiring a service operation, whereby the service robot is provided with groups of handling means (3, 4, 5, 6) coupled to drives. The service robot (1) is arranged as a vertical frame, which is provided with at least two vertical linear guides (2, 18, 20, 21), whereby at least one of them is associated with at least two movable groups (3, 4, 5, 6) of handling means to perform service operations at the spinning station. The invention also relates to a ring spinning machine with a service robot, which is arranged displaceably along a row of spinning stations with an option to stop at a selected spinning station requiring a service operation. In addition, the invention relates to a method for controlling a service robot or its spinning means.

IPC 8 full level

D01H 13/00 (2006.01)

CPC (source: CN CZ EP)

D01H 1/40 (2013.01 - CZ); **D01H 7/64** (2013.01 - CZ); **D01H 13/005** (2013.01 - CN EP); **D01H 13/045** (2013.01 - CN); **D01H 15/00** (2013.01 - CZ); **D01H 15/013** (2013.01 - CZ)

Cited by

WO2020254954A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3517662 A1 20190731; **EP 3517662 B1 20210519**; CN 110067055 A 20190730; CN 110067055 B 20221118; CZ 201835 A3 20190731; ES 2882210 T3 20211201

DOCDB simple family (application)

EP 19152442 A 20190118; CN 201910068226 A 20190124; CZ 201835 A 20180124; ES 19152442 T 20190118