

Title (en)

Apparatus and method for conveying winding tubes to ring spinning spindles and aligning them therewith.

Title (de)

Vorrichtung und Verfahren zum Transport von Spulenhülsen zu Spindeln von Ringspinnmaschinen und zum Ausrichten der Spulenhülsen mit den Spindeln.

Title (fr)

Dispositif et procédé pour transporter des tubes de bobines aux broches de filature a anneaux et pour aligner les tubes avec les broches.

Publication

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Application

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Priority

IT 2173288 A 19880823

Abstract (en)

This invention relates to an apparatus and method for conveying winding tubes (2) empty of wound yarn or pegs (16) for holding winding tubes filled with wound yarn and for aligning them in correspondence with the spinning spindles along the faces of a ring spinning machine. Said apparatus is arranged to serve and to cooperate with the automatic doffing device operating along both faces of a ring spinning machine. More specifically, said apparatus comprises: - a plurality of flat elements (1) connected together by an articulated swivel joint adjustable in length by means of connecting rods; - endless mobile belts (5) which support said flat elements (1) and drive them by dragging; - a tensioning brake which clamps the tail end of the articulated chain formed by said flat elements connected together, to halt these latter in a position such that their holding pegs are aligned in correct coincidence with the axes of the spinning spindles.

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IPC 8 full level

D01H 9/18 (2006.01)

CPC (source: EP)

D01H 9/187 (2013.01)

Citation (search report)

- [A] DE 3731497 A1 19880407 - MURATA MACHINERY LTD [JP]
- [A] DE 3712027 A1 19871022 - TOYODA AUTOMATIC LOOM WORKS [JP]
- [A] PATENT ABSTRACTS OF JAPAN vol. 11, no. 353 (C-457)(2800) 18 November 1987, & JP-A-62 125026
- [A] PATENT ABSTRACTS OF JAPAN vol. 11, no. 353 (C-457)(2800) 18 November 1987, & JP-A-62 125025 (TOYODA AUTOM LOOM WORKS LTD.)
- [A] PATENT ABSTRACTS OF JAPAN vol. 11, no. 267 (C-443)(2714) 28 August 1987, & JP-A-62 069834 (HOWA MACH LTD.)
- [A] PATENT ABSTRACTS OF JAPAN vol. 9, no. 301 (C-316)(2024) 28 November 1985, & JP-A-60 139836 (HOWA KOGYO K.K.)
- [A] PATENT ABSTRACTS OF JAPAN vol. 7, no. 3 (C-143)(1148) 07 January 1983, & JP-A-57 161134

Cited by

CN110217649A; US5167115A; US5185993A; US5136834A; DE4319173A1

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