

Title (en)
BOBBIN-CHANGING DEVICE FOR FINISHING MACHINE SUCH AS A WINDING MACHINE AND RELATED FINISHING MACHINE

Title (de)
SPULENWECHSELVORRICHTUNG FÜR EINE BEARBEITUNGSMASCHINE WIE Z. B. EINE WICKELMASCHINE UND ZUGEHÖRIGE BEARBEITUNGSMASCHINE

Title (fr)
DISPOSITIF DE CHANGEMENT DE BOBINE POUR MACHINE DE FINITION TELLE QU'UNE MACHINE DE BOBINAGE ET MACHINE DE FINITION ASSOCIÉE

Publication
EP 4015429 A1 20220622 (EN)

Application
EP 21211383 A 20211130

Priority
IT 202000031631 A 20201221

Abstract (en)
A bobbin-changing device (4) for a winding machine comprising a first feed path (12) of bobbins (7) comprising a tube (6) on which a yarn (5) is wound, said first feed path (12) being shaped to feed a plurality of bobbins (7) to be unraveled, an input disc (20), arranged so as to intercept the first feed path (12), rotatable around a first axis of rotation (X1), and comprising a first side wall (22) shaped with first curvilinear sections (23) provided with at least a first recess or radial seat (24), facing said first axis of rotation (X1), configured to selectively retain and release said at least one bobbin-holder (7) plate (8), an output disc (30), rotatable about a second axis of rotation (X2), comprising a second side wall (32) shaped with second curvilinear sections (33) provided with at least one second recess or radial seat (34), with convexity facing said second axis of rotation (X2), configured to retain a bobbin (7) received from the input disc (20) and release the tube (6) of said bobbin (7) after it has been unraveled, a second release path (40) of bobbin (7) tubes (6) shaped and positioned so as to receive said tubes (6) released from the output disc (30), - a branch (50) connecting the first feed path (12) and the second release path (40) and intercepting the input disc (20) and the output disc (30) to allow the exchange of bobbins (7) between the input disc (20) and the output disc (30).

IPC 8 full level
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CPC (source: CN EP)
B65H 54/103 (2013.01 - CN); **B65H 54/28** (2013.01 - CN); **B65H 54/54** (2013.01 - CN); **B65H 54/70** (2013.01 - CN); **B65H 67/02** (2013.01 - EP); **B65H 67/0411** (2013.01 - CN); **B65H 67/0417** (2013.01 - CN); **B65H 67/064** (2013.01 - EP); **B65H 67/068** (2013.01 - CN); **B65H 2701/31** (2013.01 - EP); **B65H 2701/35** (2013.01 - CN); **B65H 2701/36** (2013.01 - CN)

Citation (search report)
• [XAI] US 5924273 A 19990720 - BERTRAMS JOSEF [DE], et al
• [A] EP 2119658 A1 20091118 - OERLIKON TEXTILE GMBH & CO KG [DE]
• [A] EP 0905078 A2 19990331 - MURATA MACHINERY LTD [JP]
• [A] US 4597540 A 19860701 - KIRIAKE MASAHARU [JP]
• [A] EP 1086920 A2 20010328 - MURATA MACHINERY LTD [JP]

Cited by
EP4393858A1; EP4253294A1

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

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DOCDB simple family (application)
EP 21211383 A 20211130; CN 202111549854 A 20211217; CN 202123196161 U 20211217