

Title (en)  
SPUN YARN WINDING APPARATUS

Title (de)  
WICKLUNGSVORRICHTUNG FÜR GESPONNENES GARN

Title (fr)  
APPAREIL D'ENROULEMENT DE FIL FILÉ

Publication  
**EP 3581532 A1 20191218 (EN)**

Application  
**EP 19173271 A 20190508**

Priority  
JP 2018110983 A 20180611

Abstract (en)  
A yarn is successfully threaded into a slit when a bobbin to which the yarn is wound is switched to a new bobbin, even if the length of the bobbin has a dimensional error from a predetermined standard size. A yarn threading mechanism 30, which is configured to thread a yarn into a slit S formed in the outer circumferential surface of each of new bobbins B when bobbins B on each of which a yarn is wound are switched to the new bobbins B, includes guides 31 which are provided to correspond to the respective bobbins B, are movable in an axial direction, and each threads a yarn into the slit S, a driving unit 32 configured to move the guides 31 in the axial direction, and a bobbin position sensor 22 configured to detect the position in the axial direction of a predetermined part of the bobbins B. Based on a detection result of the bobbin position sensor 22, the driving unit 32 is controlled so that the positions of the guides 31 are adjusted in the axial direction.

IPC 8 full level  
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CPC (source: CN EP)  
**B65H 54/2881** (2013.01 - EP); **B65H 54/343** (2013.01 - EP); **B65H 65/00** (2013.01 - EP); **B65H 67/0422** (2013.01 - EP); **B65H 67/048** (2013.01 - EP); **D01D 7/00** (2013.01 - CN); **D01D 13/02** (2013.01 - CN); **B65H 2701/31** (2013.01 - EP)

Citation (applicant)  
JP 2017154891 A 20170907 - TMT MACHINERY INC

Citation (search report)  
• [IA] DE 102004026305 A1 20041223 - SAURER GMBH & CO KG [DE]  
• [IA] DE 102007062322 A1 20090625 - OERLIKON TEXTILE GMBH & CO KG [DE]  
• [A] WO 2005023694 A1 20050317 - SAURER GMBH & CO KG [DE], et al  
• [A] JP 2001163520 A 20010619 - HITACHI CABLE  
• [A] EP 1052210 A1 20001115 - TORAY INDUSTRIES [JP]  
• [AD] JP 2017154891 A 20170907 - TMT MACHINERY INC

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CN111891820A; EP4386663A1; CN117067731A

Designated contracting state (EPC)  
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Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3581532 A1 20191218**; **EP 3581532 B1 20231122**; CN 110578177 A 20191217; CN 110578177 B 20230512; JP 2019214474 A 20191219; JP 7269783 B2 20230509

DOCDB simple family (application)  
**EP 19173271 A 20190508**; CN 201910317663 A 20190419; JP 2019078591 A 20190417