

Title (en)  
YARN WINDING DEVICE

Title (de)  
GARNWICKLUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF DE BOBINAGE DE FIL

Publication  
**EP 2594517 A1 20130522 (EN)**

Application  
**EP 11806439 A 20110624**

Priority  
• JP 2010160970 A 20100715  
• JP 2011003623 W 20110624

Abstract (en)  
Provided is a yarn winding machine that is able to improve the degree of freedom in a layout, to guide a yarn to a yarn joining device in a short time, and also to reduce the amount of a waste yarn which is generated in yarn joining. Means therefor is as follows. An automatic winder includes a bobbin support part (7), a winding part (8), a yarn joining device (14), a yarn guide part, a yarn trap (15), and a yarn trap driver (47). The yarn guide part guides a yarn of a package (30) side to the yarn joining device (14) under a state where a yarn is disconnected. The yarn trap (15) is arranged so as to face a yarn travel path between the winding part (8) and the yarn joining device (14), and configured to catch a yarn of a yarn supply bobbin (21) side under a state where a yarn is disconnected. The yarn trap driver (47) moves the yarn trap in such a direction that the yarn caught by the yarn trap is introduced to the yarn joining device (14) while keeping a condition in which the yarn is across the yarn joining device (14).

IPC 8 full level  
**B65H 67/08** (2006.01); **B65H 51/22** (2006.01); **B65H 69/00** (2006.01)

CPC (source: EP)  
**B65H 51/22** (2013.01); **B65H 67/081** (2013.01); **B65H 69/00** (2013.01); **B65H 2701/31** (2013.01)

Cited by  
EP3159294A1; CN106048797A; CN112313371A; EP4032844A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**EP 2594517 A1 20130522**; **EP 2594517 A4 20140716**; **EP 2594517 B1 20150805**; CN 103003177 A 20130327; CN 103003177 B 20141203; JP 2012020853 A 20120202; JP 5471924 B2 20140416; WO 2012008102 A1 20120119

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