

Title (en)  
Yarn winder

Title (de)  
Garnwickel

Title (fr)  
Enrouleur de fils

Publication  
**EP 2551226 A3 20131225 (EN)**

Application  
**EP 12177601 A 20120724**

Priority  
JP 2011163356 A 20110726

Abstract (en)  
[origin: EP2551226A2] A winding device capable of forming two packages P by winding yarns Ya and Yb onto respective two take up tubes 19B supported by a single cradle 20 is provided with two automatic yarn threading devices 24a and 24b. Each of the automatic yarn threading devices 24a and 24b has components such as a suction mouth 51, a yarn moving mechanism 52, a yarn providing arm 53, a yarn supporting arm 54, and a yarn pressing arm 55. The yarn providing arm 53 is swung about a shaft 65 which is in parallel to the axis of the take up tube 19B so as to cause the yarn Ya (Yb) to oppose the take up tube 19B. The yarn pressing arm 55 is swung about a shaft 66 which is in parallel to the shaft 65 so as to cause the yarn Ya (Yb) positioned by the yarn providing arm 53 to closely contact the outer circumference of the take up tube 19B. The yarn supporting arm 54 supports the yarn Ya (Yb) by sandwiching the yarn with the yarn pressing arm 55.

IPC 8 full level  
**B65H 54/20** (2006.01); **B65H 65/00** (2006.01); **D02G 1/02** (2006.01)

CPC (source: EP)  
**B65H 54/20** (2013.01); **B65H 65/00** (2013.01); **D02G 1/02** (2013.01); **D02G 1/0273** (2013.01); **B65H 2701/31** (2013.01)

Citation (search report)  
• [XY] US 4023741 A 19770517 - SCHAR HUGO  
• [YA] DE 102008038343 A1 20090305 - TMT MACHINERY INC [JP]  
• [Y] DE 4315257 A1 19931111 - MURATA MACHINERY LTD [JP]  
• [Y] DE 102005053830 A1 20070516 - SAURER GMBH & CO KG [DE]

Cited by  
CN109071145A; EP4086376A1; WO2017178312A1

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2551226 A2 20130130; EP 2551226 A3 20131225; EP 2551226 B1 20161228**; CN 102897598 A 20130130; CN 102897598 B 20170412; JP 2013023385 A 20130204; JP 5687578 B2 20150318

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**EP 12177601 A 20120724**; CN 201210262383 A 20120726; JP 2011163356 A 20110726