

Title (en)  
Filament yarn winding apparatus

Title (de)  
Filamentgarn-Wickelvorrichtung

Title (fr)  
Dispositif de bobinage de fils à filaments

Publication  
**EP 2407408 A3 20150916 (EN)**

Application  
**EP 11169964 A 20110615**

Priority  
JP 2010158892 A 20100713

Abstract (en)  
[origin: EP2407408A2] Object of the invention is providing a filament yarn winding apparatus which is good for introducing each yarn to position of each bobbin and has good durability. A filament yarn winding apparatus (11) includes a spinning machine (12) and a winder (13). The winder (13) includes a first roller (23), a bobbin holder (16), a second roller (24), and a traverse support point guide (25). The first roller (23) receives a plurality of yarns (Y) from the spinning machine (12). The bobbin holder (16) holds a plurality of bobbins (B) configured to wind up the yarns Y from the spinning machine (12). The second roller (24) is orthogonal to an axis of the bobbin holder (16) and distributes the yarns Y sent from the first roller (23) to the bobbins (B). The traverse support point guide (25) serves as a support point of traverse for the yarns (Y) sent from the second roller (24) onto the bobbins. The second roller (24) is movable between a winding operation position (a) that is a normal position for yarn paths of the yarns (Y) during a winding operation and a threading operation position (b) that is lower than the winding operation position.

IPC 8 full level  
**B65H 57/14** (2006.01); **B65H 57/00** (2006.01); **B65H 57/16** (2006.01); **B65H 57/26** (2006.01)

CPC (source: CN EP)  
**B65H 57/003** (2013.01 - CN EP); **B65H 57/14** (2013.01 - CN EP); **B65H 57/16** (2013.01 - CN EP); **B65H 57/26** (2013.01 - CN EP);  
**D01D 7/00** (2013.01 - CN); **B65H 2701/3132** (2013.01 - CN EP)

Citation (search report)  
• [I] EP 0539866 A2 19930505 - BARMAG BARMER MASCHF [DE]  
• [AD] JP 2005534825 A 20051117  
• [A] WO 2008138827 A2 20081120 - OERLIKON TEXTILE GMBH & CO KG [DE], et al  
• [A] US 5794868 A 19980818 - BUSENHART PETER [CH], et al

Cited by  
CN103305943A; EP2636624A3; CN109733955A; EP3162923A1; CN103361750A; EP2644548A3; TWI558868B; WO2022253680A1

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 2407408 A2 20120118**; **EP 2407408 A3 20150916**; **EP 2407408 B1 20161109**; CN 102330163 A 20120125; CN 102330163 B 20150513;  
CN 104711689 A 20150617; CN 104711689 B 20170412; JP 2012021241 A 20120202; JP 5519435 B2 20140611

DOCDB simple family (application)  
**EP 11169964 A 20110615**; CN 201110180830 A 20110630; CN 201510161713 A 20110630; JP 2010158892 A 20100713