

Title (en)  
Winding unit

Title (de)  
Wickeleinheit

Title (fr)  
Unité de renvidage

Publication  
**EP 2567921 A2 20130313 (EN)**

Application  
**EP 12174602 A 20120702**

Priority  
JP 2011197702 A 20110909

Abstract (en)  
A winding unit (11) includes a tray holder (51), a yarn-layer sensor (36), and a tray-position adjusting mechanism (58). The tray holder (51) holds a conveying tray (19). The yarn-layer sensor (36) detects a position of a yarn feeding bobbin (15) placed on the conveying tray (19) and outputs a detection result. The tray-position adjusting mechanism (58) adjusts the position of the conveying tray (19) held by the tray holder (51) by operating the tray holder (51) based on the detection result output from the yarn-layer sensor (36).

IPC 8 full level  
**B65H 67/06** (2006.01); **B65H 57/22** (2006.01); **B65H 67/02** (2006.01)

CPC (source: EP)  
**B65H 57/22** (2013.01); **B65H 67/02** (2013.01); **B65H 67/06** (2013.01)

Citation (applicant)  
• JP 2009286608 A 20091210 - MURATA MACHINERY LTD  
• JP H0665371 U 19940916

Cited by  
CN109013369A; EP4393858A1

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 2567921 A2 20130313**; **EP 2567921 A3 20151104**; **EP 2567921 B1 20170830**; CN 102992088 A 20130327; CN 102992088 B 20170412; JP 2013056767 A 20130328

DOCDB simple family (application)  
**EP 12174602 A 20120702**; CN 201210163786 A 20120524; JP 2011197702 A 20110909