

Title (en)  
YARN WINDER

Title (de)  
GARNWICKLER

Title (fr)  
ENROULEUR DE FILS

Publication  
**EP 4005959 A1 20220601 (EN)**

Application  
**EP 21204976 A 20211027**

Priority  
JP 2020197423 A 20201127

Abstract (en)  
A spun yarn take-up machine winds a plurality of yarns around a plurality of bobbins to form a plurality of packages. The spun yarn take-up machine includes: a bobbin holder that is arranged to extend in a predetermined direction and holds the plurality of bobbins side by side in the predetermined direction; a plurality of traverse guides for traversing each of the plurality of yarns along the predetermined direction; a traverse device that includes at least one of the plurality of traverse guides and is configured to drive the at least one traverse guide; and a movement drive unit that moves the traverse device at least in the predetermined direction.

IPC 8 full level  
**B65H 54/28** (2006.01)

CPC (source: CN EP)  
**B65H 54/20** (2013.01 - CN); **B65H 54/2818** (2013.01 - CN); **B65H 54/2839** (2013.01 - EP); **B65H 54/2881** (2013.01 - EP);  
**B65H 54/2893** (2013.01 - EP); **B65H 54/52** (2013.01 - CN); **B65H 57/14** (2013.01 - CN); **B65H 63/00** (2013.01 - CN); **B65H 67/06** (2013.01 - CN);  
**B65H 2701/31** (2013.01 - CN EP)

Citation (applicant)  
• JP 2012158436 A 20120823 - TMT MACHINERY INC  
• JP 2019214474 A 20191219 - TMT MACHINERY INC

Citation (search report)  
• [XAYI] JP S58224973 A 19831227 - ASAHI CHEMICAL IND  
• [XI] WO 0208106 A2 20020131 - ADVANCED GLASSFIBER YARNS LLC [US], et al  
• [X] WO 2009030592 A1 20090312 - SIEMENS AG [DE], et al  
• [YD] JP 2012158436 A 20120823 - TMT MACHINERY INC

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 4005959 A1 20220601**; CN 114560349 A 20220531; EP 4349753 A2 20240410; EP 4349753 A3 20240626; EP 4349754 A2 20240410;  
EP 4349754 A3 20240626; JP 2022085641 A 20220608

DOCDB simple family (application)  
**EP 21204976 A 20211027**; CN 202111252522 A 20211027; EP 24159047 A 20211027; EP 24159048 A 20211027; JP 2020197423 A 20201127