

Title (en)
YARN WINDING MACHINE

Title (de)
GARNWICKLUNGSMASCHINE

Title (fr)
MACHINE D'ENROULEMENT DE FIL

Publication
EP 3967640 A1 20220316 (EN)

Application
EP 21195486 A 20210908

Priority
JP 2020151139 A 20200909

Abstract (en)
A traverse mechanism 4 of a yarn winding machine 1 includes a drive motor 53 which generates a rotation of a drive shaft 531, a crank disc 52 which converts the rotation of the drive shaft 531 of the drive motor 53 into a rotation of a circular orbit, and a reciprocating double slider crank portion 51 which converts the rotation of the circular orbit of the crank disc 52 into a reciprocating motion, the crank disc 52 includes a disc portion 521 which rotates while being connected to the drive shaft 531 and transmits power of the drive motor 53 and a crank pin 523 which transmits power to the reciprocating double slider crank portion 51, a distance between the disc portion 521 and the crank pin 523 is changeable, and the reciprocating double slider crank portion 51 includes a traverse guide 516 locking a yarn Y.

IPC 8 full level
B65H 54/28 (2006.01); **B65H 54/32** (2006.01); **B65H 54/38** (2006.01)

CPC (source: CN EP KR)
B65H 54/20 (2013.01 - CN); **B65H 54/28** (2013.01 - CN KR); **B65H 54/2806** (2013.01 - EP); **B65H 54/32** (2013.01 - EP); **B65H 54/385** (2013.01 - EP); **B65H 54/54** (2013.01 - CN); **B65H 2403/532** (2013.01 - KR); **B65H 2701/31** (2013.01 - EP KR)

Citation (applicant)
• JP 2009234755 A 20091015 - TMT MACHINERY INC
• JP 2010163250 A 20100729 - TMT MACHINERY INC

Citation (search report)
• [XY] DE 525007 C 19310520 - FROITZHEIM & RUDERT MASCHINENF
• [XA] DE 532861 C 19310904 - FROITZHEIM & RUDERT
• [Y] EP 3476787 A1 20190501 - RIETER AG MASCHF [CH]

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 3967640 A1 20220316; CN 114229589 A 20220325; JP 2022045513 A 20220322; KR 20220033452 A 20220316

DOCDB simple family (application)
EP 21195486 A 20210908; CN 202111048023 A 20210908; JP 2020151139 A 20200909; KR 20210119783 A 20210908