Title (en)

YARN JOINING SYSTEM FOR SYNTHETIC YARN

Title (de)

GARNVERBINDUNGSSYSTEM FÜR SYNTHETISCHES GARN

Title (fr)

SYSTÈME D'ASSEMBLAGE DE FIL SYNTHÉTIQUE

Publication

EP 3771675 A1 20210203 (EN)

Application

EP 20188273 A 20200729

Priority

JP 2019140211 A 20190730

Abstract (en)

A package exchanging device (7) includes: a splicer (66) which entangles a yarn end (Y1) and a yarn end (Y2); first hooks (67a) and (68a) and second hooks (67b) and (68b) which are provided so that a movable amount from an initial state increases in response to a tension acting on a yarn (Y) when the tension becomes larger than a predetermined value and are urged so as to return to the initial state when the tension acting on the yarn (Y) is equal to or smaller than the predetermined value; a first motor (62b) and a second motor (63b) which drive a peg (24) rotatably supporting a yarn supply package (P1); and a drive control unit (90a) which controls a feeding amount of the yarn (Y) fed from the yarn supply package (P1) by controlling the first motor (62b) and the second motor (63b) so that the movable amount is in a first predetermined range.

IPC 8 full level

B65H 49/12 (2006.01); **B65H 59/38** (2006.01); **B65H 67/02** (2006.01); **B65H 69/06** (2006.01)

CPC (source: CN EP)

B65H 49/12 (2013.01 - EP); **B65H 59/387** (2013.01 - EP); **B65H 67/02** (2013.01 - EP); **B65H 69/061** (2013.01 - EP); **D01H 15/002** (2013.01 - CN); B65H 2701/313 (2013.01 - EP); B65H 2701/319 (2013.01 - EP)

Citation (applicant)

- JP H06200434 A 19940719 - MURATA MACHINERY LTD
- JP H0768010 B2 19950726

Citation (search report)

- [A] DE 4344786 A1 19940630 - MURATA MACHINERY LTD [JP]
- [A] US 5143125 A 19920901 - TAMATANI YASUYUKI [JP], et al

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 3771675 A1 20210203; **EP 3771675 B1 20220907**; CN 112301483 A 20210202; JP 2021024742 A 20210222; TW 202104695 A 20210201

DOCDB simple family (application)

EP 20188273 A 20200729; CN 202010742870 A 20200729; JP 2020127445 A 20200728; TW 109125685 A 20200729