

Title (en)
PACKAGE EXCHANGING SYSTEM

Title (de)
SPULENAUSTAUSCHSYSTEM

Title (fr)
SYSTÈME D'ÉCHANGE DE BOBINES

Publication
EP 3771677 A1 20210203 (EN)

Application
EP 20188116 A 20200728

Priority
JP 2019140210 A 20190730

Abstract (en)
A package exchanging system (100) includes: a running carrier (30) which is provided so as to be movable in one direction along creel stands (20) arranged in the one direction; a running control unit (90b) which controls the running of the running carrier (30); a sensor (131) which is provided in the running carrier (30) and acquires a remaining amount of a yarn (Y) wound on a yarn supply package (P1) held by the creel stand (20); and a prediction unit (90a) which predicts a timing at which the yarn (Y) disappears from the yarn supply package (P1) on the basis of the remaining amount of the yarn (Y) acquired by the sensor (131).

IPC 8 full level
B65H 63/08 (2006.01); **B65H 49/12** (2006.01); **B65H 49/16** (2006.01); **B65H 67/02** (2006.01); **B65H 69/06** (2006.01)

CPC (source: CN EP)
B65H 49/12 (2013.01 - EP); **B65H 49/16** (2013.01 - EP); **B65H 63/086** (2013.01 - EP); **B65H 67/02** (2013.01 - EP); **B65H 67/06** (2013.01 - CN); **B65H 67/085** (2013.01 - CN); **B65H 69/06** (2013.01 - EP); **B65H 2701/31** (2013.01 - CN); **B65H 2701/313** (2013.01 - EP)

Citation (applicant)
• JP H06200434 A 19940719 - MURATA MACHINERY LTD
• JP H0768010 B2 19950726

Citation (search report)
• [Y] DE 4344786 A1 19940630 - MURATA MACHINERY LTD [JP]
• [Y] GB 2569165 A 20190612 - SAURER FIBREVISION LTD [GB]
• [Y] JP H11246119 A 19990914 - SUMITOMO WIRING SYSTEMS
• [Y] US 2001037545 A1 20011108 - STUTTEM MANFRED [DE]
• [A] JP H0532377 A 19930209 - MURATA MACHINERY LTD

Cited by
EP4292968A1; EP4137430A1

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 3771677 A1 20210203; **EP 3771677 B1 20240501**; CN 112299144 A 20210202; JP 2021024741 A 20210222; JP 7465743 B2 20240411; TW 202104056 A 20210201

DOCDB simple family (application)
EP 20188116 A 20200728; CN 202010742099 A 20200729; JP 2020127440 A 20200728; TW 109125684 A 20200729