

Title (en)

SPUN YARN TAKE-UP SYSTEM AND YARN THREADING ROBOT

Title (de)

AUFNAHMESYSTEM FÜR GESPONNENES GARN UND GARNEINFÄDELUNGSROBOTER

Title (fr)

SYSTÈME DE RATTRAPAGE DE FIL ET ROBOT D'ENFILAGE DE FIL

Publication

**EP 4382466 A1 20240612 (EN)**

Application

**EP 23203505 A 20231013**

Priority

JP 2022194032 A 20221205

Abstract (en)

Liquid in an air separator is efficiently discharged. A spun yarn take-up system 1 includes a yarn threading robot 3 performing yarn threading for a spun yarn take-up apparatus, a compressed air supplier 5 configured to supply compressed air to the yarn threading robot 3, an air cylinder 124 driven by the compressed air, a branched supply passage 90 through which the compressed air is supplied from the compressed air supplier 5 to the air cylinder 124, and an air separator 92 provided on the branched supply passage 90. The air separator 92 includes a separation unit 92a configured to separate liquid included in the compressed air passing through the branched supply passage 90 and a storage unit 92b configured to store the liquid separated by the separation unit 92a. The spun yarn take-up system 1 further includes a robot-side waste yarn passage 82 that is capable of sucking the liquid stored in the storage unit 92b.

IPC 8 full level

**B65H 54/70** (2006.01); **B65H 57/00** (2006.01)

CPC (source: EP)

**B65H 54/702** (2013.01); **B65H 54/707** (2013.01); **B65H 57/003** (2013.01); **B65H 2701/3132** (2013.01)

Citation (applicant)

JP 2018066087 A 20180426 - TMT MACHINERY INC

Citation (search report)

- [AD] JP 2018066087 A 20180426 - TMT MACHINERY INC
- [A] DE 102010047703 A1 20110414 - OERLIKON TEXTILE GMBH & CO KG [DE]
- [A] JP S60128165 A 19850709 - TORAY INDUSTRIES
- [A] US 5564638 A 19961015 - SCHMITZ WILHELM [DE]

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**EP 4382466 A1 20240612**; CN 118147771 A 20240607; JP 2024080799 A 20240617

DOCDB simple family (application)

**EP 23203505 A 20231013**; CN 202311259224 A 20230926; JP 2022194032 A 20221205