

Title (en)

Spooling frame for winding at least one item for winding on to at least one removable sleeve

Title (de)

Spulvorrichtung zum Aufspulen zumindest eines Wickelguts auf zumindest eine wechselbare Hülse

Title (fr)

Dispositif de bobine destiné à enrouler au moins une matière à enrouler sur au moins un manchon interchangeable

Publication

**EP 2891618 B1 20191113 (DE)**

Application

**EP 14196555 A 20141205**

Priority

DE 202013105818 U 20131219

Abstract (en)

[origin: US2015175372A1] A winding device for winding up at least one material to be wound onto at least one exchangeable tube, having at least one winding mandrel which is provided to receive the at least one tube in at least one operating state and/or drive it in rotation about a winding axis, comprising at least one winding mandrel has a first mandrel unit and at least one second mandrel unit, wherein the mandrel units are introducible from opposite sides into the at least one tube.

IPC 8 full level

**B65H 18/02** (2006.01); **B65H 18/10** (2006.01); **B65H 19/22** (2006.01); **B65H 19/30** (2006.01); **B65H 54/553** (2006.01); **B65H 67/04** (2006.01); **B65H 75/24** (2006.01)

CPC (source: EP US)

**B65H 18/028** (2013.01 - EP US); **B65H 18/10** (2013.01 - EP US); **B65H 19/22** (2013.01 - EP US); **B65H 19/305** (2013.01 - EP US); **B65H 54/553** (2013.01 - EP US); **B65H 67/0405** (2013.01 - EP US); **B65H 75/241** (2013.01 - EP US); **B65H 2301/41346** (2013.01 - EP US); **B65H 2301/4181** (2013.01 - EP US); **B65H 2511/12** (2013.01 - EP US); **B65H 2701/31** (2013.01 - EP US)

Cited by

CN107324133A

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

DOCDB simple family (publication)

**DE 202013105818 U1 20140219**; EP 2891618 A1 20150708; EP 2891618 B1 20191113; ES 2764138 T3 20200602; LT 2891618 T 20200127; PL 2891618 T3 20200430; PT 2891618 T 20200117; US 2015175372 A1 20150625; US 9452906 B2 20160927

DOCDB simple family (application)

**DE 202013105818 U 20131219**; EP 14196555 A 20141205; ES 14196555 T 20141205; LT 14196555 T 20141205; PL 14196555 T 20141205; PT 14196555 T 20141205; US 201414338726 A 20140723