

Title (en)

METHOD AND APPARATUS FOR HANDLING WINDING SHAFTS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HANDHABUNG VON WICKELWELLEN

Title (fr)

PROCÉDÉ ET APPAREIL POUR MANIPULER DES ARBRES D'ENROULEMENT

Publication

**EP 3458397 B1 20210630 (EN)**

Application

**EP 17798815 A 20170515**

Priority

- FI 20160127 A 20160516
- FI 2017050369 W 20170515

Abstract (en)

[origin: WO2017198901A1] This disclosure describes a method for handling winding shafts. The invention also relates to an apparatus implementing the method. After being transferred to the side from an unwinder (UW), the winding shaft (3) is turned in the horizontal plane by substantially 90 degrees before return transfer in an orientation parallel to the track, and before being returned to a winder (W) the empty winding shaft (4) is again turned by substantially 90 degrees in the horizontal plane. The fibrous web left over the winding shaft (3) is removed between winding shaft turning stations (11,12).

IPC 8 full level

**B65H 19/12** (2006.01); **B65H 19/30** (2006.01)

CPC (source: EP FI)

**B65H 19/12** (2013.01 - EP FI); **B65H 19/126** (2013.01 - EP); **B65H 19/305** (2013.01 - EP FI); **B65H 2301/41552** (2013.01 - EP); **B65H 2801/84** (2013.01 - EP)

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)

**WO 2017198901 A1 20171123**; EP 3458397 A1 20190327; EP 3458397 A4 20200401; EP 3458397 B1 20210630; FI 126726 B 20170428; FI 20160127 A 20170428

DOCDB simple family (application)

**FI 2017050369 W 20170515**; EP 17798815 A 20170515; FI 20160127 A 20160516