

Title (en)

Method and device for positioning sleeves on a winding shaft

Title (de)

Verfahren und Vorrichtung zum Positionieren von Hülсен auf einer Wickelwelle

Title (fr)

Procédé et dispositif de positionnement de douilles sur un arbre d'enroulement

Publication

**EP 2826739 A3 20150325 (DE)**

Application

**EP 14158839 A 20140311**

Priority

DE 102013102740 A 20130318

IPC 8 full level

**B65H 19/30** (2006.01)

CPC (source: EP US)

**B21B 21/00** (2013.01 - US); **B21B 37/74** (2013.01 - US); **B21B 45/0284** (2013.01 - US); **B65H 19/305** (2013.01 - EP US);  
**B65H 2301/4148** (2013.01 - EP US); **B65H 2301/41812** (2013.01 - EP US); **B65H 2301/41826** (2013.01 - EP US);  
**B65H 2301/41829** (2013.01 - EP US); **B65H 2553/412** (2013.01 - EP US)

Citation (search report)

- [AD] EP 2030928 A2 20090304 - KAMPF SCHNEID UND WICKELTECHNI [DE]
- [A] EP 1310447 A2 20030514 - KAMPF GMBH & CO MASCHF [DE]
- [A] JP 2011224596 A 20111110 - NIPPON STEEL ENG CO LTD, et al

Cited by

CN108840143A; CN114348725A

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)

**DE 102013102740 A1 20141030**; EP 2826739 A2 20150121; EP 2826739 A3 20150325; EP 2826739 B1 20161026; ES 2612428 T3 20170516

DOCDB simple family (application)

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