

Title (en)

WINDING DEVICE FOR WINDING A MATERIAL WEB

Title (de)

WICKELVORRICHTUNG ZUM AUFWICKELN EINER MATERIALBAHN

Title (fr)

DISPOSITIF D'ENROULEMENT POUR ENROULER UNE BANDE DE MATIÈRE

Publication

EP 4072981 A1 20221019 (DE)

Application

EP 20775827 A 20200909

Priority

- DE 102019125179 A 20190918
- EP 2020075142 W 20200909

Abstract (en)

[origin: WO2021052826A1] The invention relates to a winding device for winding a material web (101, 201) running in a running direction, the winding device comprising: at least one blade (103, 203) for cutting the material web in the web direction to form a plurality of partial material webs (106, 107, 108, 109; 206, 207, 208, 209; 305, 306, 307, 308); and a fold-over device (301, 302, 303) for folding the edges of the partial material webs over. In order to provide a winding device that allows a material web with folded-over edges to be wound with as little creasing as possible, a fold-over element (309, 310, 311, 312) is provided for each edge of the partial material webs. The at least one blade (103, 203) can be moved perpendicularly to the running direction by means of a first oscillating device. The fold-over elements for the left edges of the partial material webs, as viewed in the running direction, can be moved perpendicularly to the running direction by means of a second oscillating device. The fold-over elements for the right edges of the partial material webs, as viewed in the running direction, can be moved perpendicularly to the running direction by means of a third oscillating device. The first oscillating device, the second oscillating device and the third oscillating device can be controlled by means of a control unit in such a way that the folded-over edges of the partial material webs can be wound at an offset.

IPC 8 full level

B65H 18/10 (2006.01); **B26D 1/09** (2006.01); **B65H 45/22** (2006.01); **B65H 45/28** (2006.01)

CPC (source: CN EP US)

B26D 1/065 (2013.01 - US); **B26D 5/06** (2013.01 - US); **B65H 18/10** (2013.01 - CN EP US); **B65H 35/02** (2013.01 - CN); **B65H 45/22** (2013.01 - CN EP US); **B65H 45/28** (2013.01 - CN EP US); **B26D 1/06** (2013.01 - EP); **B26D 5/00** (2013.01 - EP); **B26D 5/06** (2013.01 - EP); **B65H 2301/414322** (2013.01 - CN EP US); **B65H 2301/4148** (2013.01 - CN EP); **B65H 2301/41485** (2013.01 - US); **B65H 2301/41487** (2013.01 - CN EP); **B65H 2513/10** (2013.01 - US); **B65H 2515/50** (2013.01 - CN EP US); **B65H 2701/11234** (2013.01 - CN EP US); **B65H 2701/1752** (2013.01 - CN EP US); **B65H 2701/1944** (2013.01 - US)

Citation (examination)

EP 2952459 A1 20151209 - SML MASCHINENGESELLSCHAFT M B H [AT]

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)

WO 2021052826 A1 20210325; CN 114450237 A 20220506; EP 4072981 A1 20221019; EP 4072981 B1 20241106; US 2022371845 A1 20221124

DOCDB simple family (application)

EP 2020075142 W 20200909; CN 202080065593 A 20200909; EP 20775827 A 20200909; US 202017761388 A 20200909