

Title (en)

Machine for winding sheet-like materials

Title (de)

Maschine zum Aufwickeln von bahnförmigen Materialien

Title (fr)

Machine d'enroulement de matériaux en forme de bande

Publication

EP 2803609 B1 20160622 (DE)

Application

EP 14159257 A 20140312

Priority

DE 102013104978 A 20130515

IPC 8 full level

B65H 19/22 (2006.01); **B65H 18/02** (2006.01); **B65H 18/08** (2006.01); **B65H 18/16** (2006.01); **B65H 18/22** (2006.01); **B65H 19/28** (2006.01)

CPC (source: EP)

B65H 18/023 (2013.01); **B65H 18/08** (2013.01); **B65H 18/16** (2013.01); **B65H 18/22** (2013.01); **B65H 19/2238** (2013.01); **B65H 19/28** (2013.01); **B65H 2301/3112** (2013.01); **B65H 2301/41422** (2013.01); **B65H 2301/44318** (2013.01); **B65H 2402/31** (2013.01); **B65H 2404/1421** (2013.01); **B65H 2404/26** (2013.01); **B65H 2404/43** (2013.01)

Cited by

CN113353724A; DE102016112865A1; US10526154B2; WO2016082910A1

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)

EP 2803609 A1 20141119; **EP 2803609 B1 20160622**; DE 102013104978 A1 20141120; DE 102013104978 B4 20190314

DOCDB simple family (application)

EP 14159257 A 20140312; DE 102013104978 A 20130515