

Title (en)
SHEET ORIENTATION DEVICE, MACHINE FOR PROCESSING A SHEET, AND METHOD FOR ORIENTING A SHEET

Title (de)
BOGEN-AUSRICHTVORRICHTUNG, MASCHINE ZUM VERARBEITEN EINES BOGENS SOWIE VERFAHREN ZUM AUSRICHTEN EINES BOGENS

Title (fr)
DISPOSITIF D'ORIENTATION DE FEUILLE, MACHINE POUR LE TRAITEMENT D'UNE FEUILLE AINSI QUE PROCÉDÉ POUR L'ORIENTATION D'UNE FEUILLE

Publication
EP 3694799 A1 20200819 (DE)

Application
EP 18786677 A 20181009

Priority
• DE 102017123521 A 20171010
• EP 2018025263 W 20181009

Abstract (en)
[origin: WO2019072416A1] The invention relates to a sheet orientation device (5) for a machine for processing sheets (B) made of a thin flat material, such as paper, paperboard or film, with a feed section, at least one sensor (30, 32) for detecting the position and/or orientation of the sheet (B), and at least two orientation modules (10), which each have an orientation roll (12) associated with a drive device (14), wherein each orientation module (10) is associated with a pivot device (16), by means of which the orientation roll (10) can be pivoted about a pivot axis (A) perpendicular to the feed section. The invention also relates to a machine for processing sheets (B) made of a thin, flat material, such as paper, paperboard or film, wherein a sheet orientation device (5) of the above-mentioned kind is provided. The invention lastly relates to a method for orienting a sheet (B) made of a thin, flat material, such as paper, paperboard or film, by means of the following steps: - the orientation of the sheet (B) is detected, - the sheet (B) is accelerated, rotated and/or displaced laterally on a feed section by means of at least two orientation rolls (12) that are controllable in respect of their circumferential speed and orientation.

IPC 8 full level
B65H 7/08 (2006.01); **B65H 9/10** (2006.01)

CPC (source: EP US)
B65H 7/08 (2013.01 - EP US); **B65H 9/002** (2013.01 - EP US); **B65H 2404/15212** (2013.01 - EP US); **B65H 2511/216** (2013.01 - EP US); **B65H 2513/52** (2013.01 - EP); **B65H 2701/1311** (2013.01 - EP US); **B65H 2801/21** (2013.01 - EP US)

Citation (search report)
See references of WO 2019072416A1

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 2019072416 A1 20190418; CN 111344239 A 20200626; CN 111344239 B 20211102; EP 3694799 A1 20200819; EP 3694799 B1 20230426; ES 2945717 T3 20230706; MX 2020003743 A 20200803; PL 3694799 T3 20230626; TW 201932398 A 20190816; US 11447353 B2 20220920; US 2020270084 A1 20200827

DOCDB simple family (application)
EP 2018025263 W 20181009; CN 201880066359 A 20181009; EP 18786677 A 20181009; ES 18786677 T 20181009; MX 2020003743 A 20181009; PL 18786677 T 20181009; TW 107135595 A 20181009; US 201816651244 A 20181009