

Title (en)
APPARATUS FOR FEEDING AND FOLDING SHEETS AND METHOD

Title (de)
VORRICHTUNG ZUM ZUFÜHREN UND FALTEN VON BÖGEN UND VERFAHREN

Title (fr)
DISPOSITIF D'ALIMENTATION ET PLIAGE DE FEUILLES ET PROCÉDÉ

Publication
EP 3707090 B1 20240403 (EN)

Application
EP 18815039 A 20181107

Priority
• IT 201700126560 A 20171107
• IT 2018050218 W 20181107

Abstract (en)
[origin: WO2019092767A1] The device according to the invention is provided for feeding sheets, in a lying configuration to a device (10) for folding said sheets of paper or similar materials. The feed device (50) and folding device (10) both belong to an apparatus (100) for feeding and folding sheets (1) to a packaging machine. The feed and folding apparatus (100) comprises a store (2) of sheets (1) stacked in a pile (1a). The feed device (50) is disposed upstream of the folding device (10) with respect to a direction of feed (W) of the sheets (1) to be folded. The feed device (50) comprises: separator members (60), intended to separate from the base of the pile (1a) the external portion (1b) of the sheet (1) to be removed, and pick-up members (70), operating in a suitable phase relation with the separator members (60), intended to take the external portion (1b) to the entrance of the folding device (10). The separator members (60) are mobile between a distanced position (D), in which they do not interfere with the sheet (1), and a close-up position (S), in which they are in proximity to the external portion (1b). The separator members (60) are also provided with suction means (66), able to create a depression in correspondence with the external portion (1b) in order to attract it into contact with said separator members (60) so as to detach it from the base of the pile (1a).

IPC 8 full level
B65H 29/00 (2006.01); **B65H 3/08** (2006.01); **B65H 3/32** (2006.01); **B65H 3/50** (2006.01); **B65H 29/12** (2006.01); **B65H 45/26** (2006.01)

CPC (source: EP)
B65H 3/0858 (2013.01); **B65H 3/32** (2013.01); **B65H 3/50** (2013.01); **B65H 29/008** (2013.01); **B65H 29/12** (2013.01); **B65H 45/26** (2013.01); **B65H 2404/1521** (2013.01); **B65H 2404/1532** (2013.01)

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 2019092767 A1 20190516; CN 111727162 A 20200929; CN 111727162 B 20220902; EP 3707090 A1 20200916; EP 3707090 B1 20240403; EP 3707090 C0 20240403

DOCDB simple family (application)
IT 2018050218 W 20181107; CN 201880085656 A 20181107; EP 18815039 A 20181107