

Title (en)  
METHOD AND APPARATUS FOR WINCHING AND ERECTING COLLAPSED OR FOLDED CARDBOARD PRODUCTS INTO STANDING COMPARTMENTS AND/OR PACKAGING

Title (de)  
VORRICHTUNG UND VERFAHREN ZUM AUZIEHEN UND AUFRICHTEN VON ZUSAMMENGELEGTEN ODER ZUSAMMENGEFALTETEN KARTONAGEN ZU STEHEND ANGEORDNETEN GEFACHEN UND/ODER UMVERPACKUNGEN

Title (fr)  
DISPOSITIF ET PROCÉDÉ DE MONTAGE ET DE CONSTRUCTION DE CARTONS PLIÉS OU APLATIS EN CAISSES ET/OU EMBALLAGES DISPOSÉS EN POSITION VERTICALE

Publication  
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Application  
**EP 15189569 A 20151013**

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Abstract (en)  
[origin: US2016107408A1] The present invention includes an apparatus (01) and a method for expanding and erecting collapsed or folded cardboard packagings (02) to a standing position. The method includes holding the topmost cardboard packaging (02), coming from above, at its top flat side (23) of a cardboard packaging wall (22) and removing it from a stack (41) of flatly collapsed cardboard packagings (02). Subsequently also holding the cardboard packaging (02), at its bottom flat side (24) from below, and increasing the vertical distance between the top flat side (23), and the bottom flat side (24), by oppositely pulling so far until the cardboard packaging (02) has been expanded. Then releasing the top flat side (23) of the cardboard packaging (02), and rotating the lying, expanded set of cardboard packaging (02) still being held at its bottom flat side (24), where the rotating is about a horizontal pivoting axis (13). The bottom flat side (24) is subsequently also released to achieve an expanded and now erected set of compartments and/or the outer packagings (03). The apparatus (01) comprises a cardboard packaging supply (04) comprising at least one stack (41) of flatly collapsed cardboard packagings (02) arranged lying on top of each other, an erecting device (05) arranged next to the cardboard packaging supply (04) as seen in the direction of a horizontal axis (11), and a gripping device (06) for simultaneously seizing respectively one topmost cardboard packaging (02) from each stack (41) of the cardboard packaging supply (04).

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Cited by  
DE102018103176A1; DE102018132330A1; CN109562856A; DE102017103829A1; US11453523B2; WO2018153587A1; WO2018010953A1; WO2018072955A1; EP3666697A1; EP3187427B1

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