

Title (en)

APPARATUS AND METHOD FOR PACKAGING PRODUCTS IN BOXES

Title (de)

VORRICHTUNG UND VERFAHREN ZUM VERPACKEN VON PRODUKTEN IN SCHACHTELN

Title (fr)

APPAREIL ET PROCÉDÉ DE CONDITIONNEMENT DE PRODUITS DANS DES BOÎTES

Publication

**EP 4320047 A1 20240214 (EN)**

Application

**EP 22721120 A 20220406**

Priority

- IT 202100008741 A 20210408
- IB 2022053219 W 20220406

Abstract (en)

[origin: WO2022214997A1] A packaging apparatus (1) for products (2) in boxes (3), comprises: - a supply station (11), in which the products (2) are positioned, - a discharge station (13) arranged to receive the products from the supply station (11), and - at least one first guide (12a) and a second guide (12b) which extend along respective longitudinal axes between the supply station (11) and the discharge station (13), both configured to lead a single column (B) of products (2) along its own longitudinal axis from the supply station (11) to the discharge station (13) while rotating such products about the longitudinal axis through respective rotation angles (R, S) different from 0° and different from each other.

IPC 8 full level

**B65B 5/06** (2006.01); **B65B 5/08** (2006.01); **B65B 29/02** (2006.01); **B65B 35/08** (2006.01); **B65B 35/44** (2006.01); **B65B 35/46** (2006.01); **B65B 35/54** (2006.01); **B65B 35/58** (2006.01)

CPC (source: EP US)

**B65B 5/06** (2013.01 - EP); **B65B 5/068** (2013.01 - EP US); **B65B 5/08** (2013.01 - EP US); **B65B 29/022** (2017.08 - EP); **B65B 35/08** (2013.01 - EP); **B65B 35/44** (2013.01 - EP); **B65B 35/46** (2013.01 - EP US); **B65B 35/54** (2013.01 - EP); **B65B 35/58** (2013.01 - EP US)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**WO 2022214997 A1 20221013**; EP 4320047 A1 20240214; IT 202100008741 A1 20221008; US 2024217684 A1 20240704

DOCDB simple family (application)

**IB 2022053219 W 20220406**; EP 22721120 A 20220406; IT 202100008741 A 20210408; US 202218554235 A 20220406