Title (en)
DEVICE FOR FOLDING A COLLAPSIBLE CRATE

Title (de)
VORRICHTUNG ZUM ZUSAMMENKLAPPEN EINER ZUSAMMENKLAPPBAREN KISTE

Title (fr)
DISPOSITIF DE PLIAGE D'UNE CAISSE DÉMONTABLE

Publication
**EP 3744648 A1 20201202 (EN)**

Application
**EP 20169906 A 20200416**

Priority
GB 201906774 A 20190514

Abstract (en)
There is provided a device for folding a collapsible crate, the collapsible crate comprising a base, a first pair of opposed walls pivotable about their upper edges from a locked position to initiate folding of the collapsible crate and a second pair of opposed walls configured to buckle after the first pair of opposed walls have moved from the locked position. The device comprises: a frame defining a vertical process channel for the collapsible crate; conveying means defining a conveyor plane moveable along the vertical process channel, the conveying means configured to convey the collapsible crate along the vertical process channel by supporting the base of the collapsible crate on the conveyor plane; unlocking means configured to apply a horizontal force to the first pair of opposed walls to unlock the first pair of opposed walls during the initial conveyance of the collapsible crate along the vertical process channel; pivoting means configured to pivot the first pair of opposed walls away from the conveyor plane; and, buckling means configured to buckle the second pair of opposed walls to enable folding of the collapsible crate during continuing conveyance of the collapsible crate along the vertical process channel.

IPC 8 full level
**B65B 43/26** (2006.01); B65B 69/00 (2006.01)

CPC (source: EP GB)
**B65B 43/265** (2013.01 - EP); **B65D 11/18** (2013.01 - GB); B65B 69/00 (2013.01 - EP); B65B 2220/04 (2013.01 - EP)

Citation (search report)
- [A] EP 1052087 A2 20001115 - ROBOTSYSTEMS GES FUER PALETTIE [DE]
- [A] EP 2181841 A1 20100505 - TANZER PETER MASCHB [IT]
- [A] GB 2245213 A 19920102 - BOIX MAQUINARIA SA [ES]

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)
**EP 3744648 A1 20201202**; **EP 3744648 B1 20220413**; GB 201906774 D0 20190626; GB 2583932 A 20201118

DOCDB simple family (application)
**EP 20169906 A 20200416**; GB 201906774 A 20190514