

Title (en)

IMPROVED APPARATUS FOR FILLING CONTAINERS WITH HORTICULTURAL PRODUCTS

Title (de)

VERBESSERTE VORRICHTUNG ZUM BEFÜLLEN VON BEHÄLTERN MIT GARTENBAUPRODUKTEN

Title (fr)

APPAREIL AMÉLIORÉ POUR REMPLIR DES RÉCIPIENTS DE PRODUITS HORTICOLES

Publication

EP 3007981 B1 20161228 (EN)

Application

EP 14731048 A 20140514

Priority

- IT PN20130031 A 20130611
- IB 2014061426 W 20140514

Abstract (en)

[origin: WO2014199248A1] Apparatus for filling containers with horticultural products, built and operating in such a manner as to utilize at least one horizontal transporting conveyor (1), a moving structure arranged at the output edge of said conveyor and provided with displacement and engagement means to incline said containers, through a partial rotation, from a first inclined position with respect to the horizontal plane, in which the mouth of the container remains contiguous with the output edge of the conveyor, and subsequent working positions in which the same container moves progressively through less inclined positions until it returns to the normal horizontal position. Said mobile structure includes a U-shaped oscillating frame (10) whose open side is designed to position itself in front of said output edge of the transporting conveyor (1), and blocking means being e.g. typically shaped jaws (12,13), supported by said oscillating frame (10) and suitable to selectively engage and disengage the outer perimeter of the container (20), so as to initially cause the container to rotate to a predetermined inclination, and subsequently return in reverse rotation to the normal position, in which the container is released and removed.

IPC 8 full level

B65B 25/02 (2006.01); **B65B 25/04** (2006.01); **B65B 43/42** (2006.01); **B65B 43/54** (2006.01); **B65B 43/56** (2006.01); **B65B 57/00** (2006.01)

CPC (source: EP RU US)

B65B 5/08 (2013.01 - RU); **B65B 25/02** (2013.01 - EP RU US); **B65B 25/046** (2013.01 - EP US); **B65B 35/32** (2013.01 - RU); **B65B 43/42** (2013.01 - EP US); **B65B 43/54** (2013.01 - EP US); **B65B 43/56** (2013.01 - EP US); **B65B 57/00** (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)

ME

DOCDB simple family (publication)

WO 2014199248 A1 20141218; AU 2014279769 A1 20151203; AU 2014279769 A2 20160204; AU 2014279769 B2 20170720; CA 2914143 A1 20141218; CA 2914143 C 20200825; CL 2015003576 A1 20161014; CN 105263807 A 20160120; CN 105263807 B 20170405; DK 3007981 T3 20170327; EP 3007981 A1 20160420; EP 3007981 B1 20161228; ES 2616482 T3 20170613; HR P20170286 T1 20170421; HU E033481 T2 20171228; IT PN20130031 A1 20141212; LT 3007981 T 20170410; ME 02649 B 20170620; NZ 714137 A 20170526; PL 3007981 T3 20170929; PT 3007981 T 20170317; RS 55760 B1 20170731; RU 2015153845 A 20170714; RU 2650407 C2 20180411; SI 3007981 T1 20170331; UA 115479 C2 20171110; US 2016107777 A1 20160421; ZA 201600096 B 20170426

DOCDB simple family (application)

IB 2014061426 W 20140514; AU 2014279769 A 20140514; CA 2914143 A 20140514; CL 2015003576 A 20151209; CN 201480032656 A 20140514; DK 14731048 T 20140514; EP 14731048 A 20140514; ES 14731048 T 20140514; HR P20170286 T 20170221; HU E14731048 A 20140514; IT PN20130031 A 20130611; LT 14731048 T 20140514; ME P201769 A 20140514; NZ 71413714 A 20140514; PL 14731048 T 20140514; PT 14731048 T 20140514; RS P20170218 A 20140514; RU 2015153845 A 20140514; SI 201430157 A 20140514; UA A201512227 A 20140514; US 201414895257 A 20140514; ZA 201600096 A 20160106