

Title (en)

AN APPARATUS FOR TRANSFERRING PLANTS FROM A LOADING STRUCTURE TO A RECEIVING STRUCTURE

Title (de)

VORRICHTUNG ZUR ÜBERTRAGUNG VON PFLANZEN AUS EINER LADESTRUKTUR AUF EINE AUFNAHMESTRUKTUR

Title (fr)

APPAREIL POUR TRANSFÉRER DES PLANTES D'UNE STRUCTURE DE CHARGEMENT VERS UNE STRUCTURE DE RÉCEPTION

Publication

EP 2858476 A1 20150415 (EN)

Application

EP 13742744 A 20130605

Priority

- IT TV20120111 A 20120611
- IB 2013054631 W 20130605

Abstract (en)

[origin: WO2013186669A1] Apparatus (1) for transferring plants (100) from a loading structure (2) to a receiving structure (3) characterized in that it comprises: a supporting frame (8); at least one continuous conveyor belt (4), operatively associated with said supporting frame, and at least one plurality of conveyor cells (41) of said plants, integral with said conveyor belt, said conveyor belt following a closed path (9) comprising a loading station (10), a filming station (11) and an unloading station (12A, 12B) of said plants, said conveyor belt moving with different speeds as a function of the position of said conveyor cells (41) along said closed path; loading means (101) of said plants, positioned at said loading station (10), said loading means being adapted to transfer a plurality of plants (100) at a time from said loading structure (2) to conveyor cells (41), positioned at said loading station; filming means (111) of said plants, positioned at said filming station (11), said filming means being adapted to acquire images of plants (100) contained in conveyor cells (41) that travel through said filming station; unloading means (121 A, 121B) of said plants, positioned at said unloading station (12 A, 12B), said unloading means being capable of transferring plants (100), one at a time, from conveyor cells (41), that have reached said unloading station, to said receiving structure (3); a control unit (50) adapted to receive one or more images (I1, I2) of a plant (100) contained in a conveyor cell (41) traveling through said filming station (11) and to manage the handling operations of said plant.

IPC 8 full level

A01G 9/00 (2006.01)

CPC (source: EP)

A01G 9/143 (2013.01); **Y02A 40/25** (2017.12)

Citation (search report)

See references of WO 2013186669A1

Citation (examination)

- DE 19920920 A1 20001109 - IMECH GMBH INST FUER MECHATRON [DE]
- GB 2112365 A 19830720 - KRAMER K AUTOMATION KG

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)

WO 2013186669 A1 20131219; EP 2858476 A1 20150415; IT TV20120111 A1 20131212

DOCDB simple family (application)

IB 2013054631 W 20130605; EP 13742744 A 20130605; IT TV20120111 A 20120611