

Title (en)
Device for storing root crops

Title (de)
Vorrichtung zum Speichern von Wurzelfrüchten

Title (fr)
Dispositif pour stocker des plantes racines

Publication
EP 2856853 B1 20161109 (EN)

Application
EP 14003328 A 20140926

Priority
NL 1040457 A 20131004

Abstract (en)
[origin: EP2856853A1] The present invention relates to a device for storing root crops. The device comprises a main frame (2) with a filling bunker (4) with a movable bottom (6), a first (7) and second (8) roller module with an adjustable distance between the central axes of adjacent rollers, and respective first and a second discharge conveyors (9,10) co-acting therewith, and an end discharge conveyor (11) . The device is intended for the purpose of receiving a load of root crops, and in particular freshly harvested root crops, and separating and delivering different fractions, including soil tare and undersize root crops, in a continuous process. The device according to the invention is characterized in that between the first and the second roller module a space is present which is spanned by a transport module (12) which receives the root crops from the first roller module (7) and delivers them to the second roller module (8). According to the invention the space is utilized for the purpose of situating the first and second transverse discharge conveyors adjacently of each other. This effectively reduces the chance of undesirable accumulation of soil on static parts of the second transverse discharge conveyor and unintentional mixing of soil tare and undersize root crops on the second transverse discharge conveyor. In addition, the transport module according to the invention is also utilized to create a bypass for the second roller module for situations wherein separation of undersize root crops is not desired. The invention further provides a mechanism for realizing effective co-action of the first and second roller modules, the transport module, the first and second transverse discharge conveyors and the end discharge conveyor.

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Citation (opposition)
Opponent : Grimme Landmaschinenfabrik GmbH & Co. KG
• US 2010044283 A1 20100225 - MITCHELL DANNY [US]
• US 2010096301 A1 20100422 - NYBORG BRUCE DAVID [US], et al

Cited by
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