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Title EN

METHOD AND EQUIPMENT FOR UNIFORM DRYING OF AGRICULTURAL PLANT SEEDS.

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Patent

Patent application No. 132273 A2/2017

The invention relates to a process and apparatus for convective and uniform drying of agricultural plant seeds.

Convective dryers are widely used in various fields, such as drying fruits, vegetables, grain seeds, pasta, etc.

Seeds of agricultural plants, which are subjected to the technological drying operation, behave differently according to the structure and their composition. Therefore, some of them do not undergo aggressive drying conditions characterized by uneven temperatures and velocity of the drying agent when passing through the product layer to be dried.

The purpose of the invention is to solve the uniform drying/cooling of the product layer in the dryer by designing a process and apparatus to allow the flow of the fluid to be uniform.

Description
EN

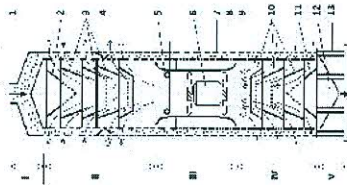
According to the invention, the process consists in uniformly distributing the drying/cooling agent throughout the product mass by creating a constant and equal speed profile in each circular section of the seed bed to be dried.

According to the invention, the apparatus is a metallic structure consisting of a concentric concentric cone with a large flat base and a deflector, and a small base having decreasing diameters in the direction of flow of the drying agent to the last cone for complete routing of the drying agent.

The number of cone trunks, the height of each, the distance between them, the diameters of the small bases, the deflector diameters are correlated with the height of the drying/cooling columns, the thickness of the drying layer and the drying velocity of the drying agent.

Class no.

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