Title (en)

DRYER FOR FREE-FLOWING MATERIAL TO BE DRIED AND A METHOD FOR OPERATING A DRYER

Title (de)

TROCKNER FÜR SCHÜTTFÄHIGES TROCKNUNGSGUT UND VERFAHREN ZUM BETREIBEN EINES TROCKNERS

Title (fr)

SÉCHOIR POUR PRODUIT DE SÉCHAGE EN VRAC ET PROCÉDÉ D'EXPLOITATION D'UN SÉCHOIR

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Application

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Abstract (en)

[origin: WO2007134656A1] The present invention relates to a dryer (1) for free-flowing material to be dried (6), comprising a conveyor track which the material to be dried (6) is to pass through with at least one rotatable conveyor worm (2) in which a gas can be passed through the material to be dried (6), wherein the minimum of at least one rotatable conveyor worm (2) forming the conveyor track is surrounded over its entire circumference with a gas-permeable and material-impermeable casing (20). The new dryer (1) is characterized in that during operation of the dryer (1), the free-flowing material to be dried (6) fills only partially the cross section of the conveyor worm (2) inside the casing (20), in that the gas in a lower area of the conveyor worm (2) can be fed through the casing (20) into the inside of the conveyor worm (2) with the formation of a fluidized bed in the material to be dried (6), and in that the gas, after passing through the material to be dried (6) forming the fluidized bed, can be discharged into a top area of the conveyor worm (2) through the casing (20) thereof. The invention also relates to a method for operating a dryer (1).

IPC 8 full level (invention and additional information)

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