

Title (en)

APPARATUS AND METHOD FOR ENHANCING OPERATIONAL SAFETY AND EFFECTIVENESS OF CROSS-FLOW GRAIN DRYERS

Title (de)

VORRICHTUNG UND VERFAHREN ZUR ERHÖHUNG DER BETRIEBSSICHERHEIT UND -EFFEKTIVITÄT VON QUERFLUSS-KORNTROCKNERN

Title (fr)

APPAREIL ET PROCÉDÉ PERMETTANT D'AMÉLIORER LA SÉCURITÉ DE FONCTIONNEMENT ET LE RENDEMENT DES SÉCHOIRS À GRAINS À ÉCOULEMENT TRANSVERSAL

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Application

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Priority

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Abstract (en)

[origin: WO2014083366A1] Apparatus for enhancing operational safety and energetic effectiveness of a cross-flow grain dryer (1), being divided vertically into a cooling zone (8) and a drying zone (9). For measuring the temperature of the exiting drying medium (22) heat sensors (12) are disposed at the outlet openings (7). At least at the boundary of the drying zone (9) and the cooling zone (8) in each of the ducts (2) provided with outlet openings (7) a heat sensing unit (13) is disposed. The discharging hole (5) comprises discharging elements (18) provided with intervening devices (17) which can be operated independently from each other. In the method for operating a cross-flow grain dryer at least at the boundary of the drying zone and the cooling zone a heat sensing unit comprising a plurality of heat sensors are disposed. The signals of the heat sensors are transmitted to a central unit which generates a graph representing the dispersion of heat.

IPC 8 full level

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