

Title (en)

PARTICLE-DRYING APPARATUS WITH RECYCLING OF A PORTION OF THE HOT GAS

Title (de)

PARTIKELTROCKNUNGSVORRICHTUNG MIT RÜCKFÜHRUNG EINES TEILS DES HEISSGASES

Title (fr)

APPAREIL DE SÉCHAGE DE PARTICULES AVEC RECYCLAGE D'UNE PARTIE DU GAZ CHAUD

Publication

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Application

**EP 23702163 A 20230131**

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Abstract (en)

[origin: WO2023151990A1] The present invention relates to a dryer (1) for drying particles, the dryer comprising: an enclosure; a circular plate mounted in the enclosure, the surface of which plate is perforated and permeable to gases; a distribution system; and a particle recovery system. The dryer further comprises a hot-gas blowing system comprising N fans configured to generate a flow of hot gas along N gas columns, each gas column i passing through a different angular section (1.i) of the plate. After having passed through the (N-1) first angular sections of the plate, the (N-1) first columns of gas are extracted from the enclosure or recirculated after drying and heating. After having passed through the Nth angular section (1.N) of the plate, the hot gas from the Nth gas column is recirculated by the Nth fan (5N) to form the first gas column (1.1) passing through the first angular sector (1.1) of the plate.

IPC 8 full level

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