

Title (en)

Apparatus for continuous drying of a filter cake, fibrous materials, paste, sludge, fibres, and similar materials

Title (de)

Vorrichtung zum kontinuierlichen Trocknen von Filterkuchen, Fasermaterialien, Paste, Schlamm, oder ähnliche Materialien.

Title (fr)

Dispositif de séchage en continu d'un gâteau de masse filtrante, de matières fibreuses, de pâte, de boues, ou de matières similaires.

Publication

EP 1719963 A2 20061108 (EN)

Application

EP 06388033 A 20060503

Priority

DK PA200500656 A 20050504

Abstract (en)

The apparatus embodies a feeding device (1), which conveys the paste/fibrous feeding material into a rotating disintegrator (4). In the under part of the apparatus the drying gasses (6) are being introduced and passed upwards through the slot (8) and into the disintegrator housing (4). The drying chamber has a conical shape with the point towards the outlet for the drying gasses (14), where the symmetrical rotating layer of powder (16), because of the rotation of the disintegrator (4), is being pressed by the wall of the cone (12) away from the the outlet for the drying air (14) with a resulting accelerating force (13) which is greater than the force of gravity. The symmetrical rotating layer of powder (16) is being held in position during the stay in the drying/floating zone (5). The finally dried material and the spent drying air is being discharged through the product outlet (17) and (18) in the upper part of the drying chamber. A step 2 air volume (9), which has a for the particles moderate temperature, is being blown from the ring chamber (10) through slots or nozzles (11) into the drying/floating zone and can for this reason gently after dry the symmetrical rotating layer of powder (16) as in a fluid bed.

IPC 8 full level

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CPC (source: EP)

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Cited by

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