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

(57) 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.

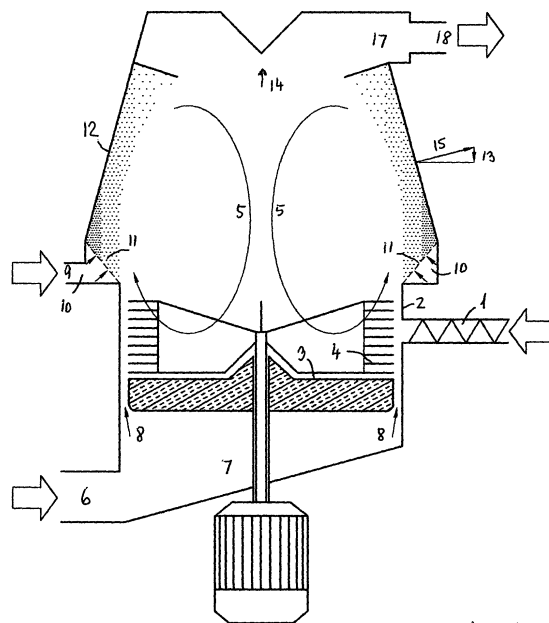


Fig 1



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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 9 February 2009	Examiner Silvis, Henk
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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The Hague		9 February 2009	Silvis, Henk
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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