

Title (en)
Rotary disc-type dryer.

Title (de)
Drehscheibentrockner.

Title (fr)
Sécheur à disque rotatif.

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EP 0521221 B1 19950322 (EN)

Application
EP 91401727 A 19910626

Priority
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Abstract (en)
[origin: EP0521221A1] The dryer comprises a) a hollow drum (30) through which steam can be circulated, b) means rotatably mounting the hollow drum within an outer casing (10), c) a plurality of hollow rotary discs (11) mounted on the outer peripheral surface of the hollow drum, d) first partition means (31) dividing the interior of the hollow drum into a steam injection chamber (S1) and a steam discharging chamber (S2), e) a steam injection aperture (32) for each hollow rotary disc at the peripheral wall of the hollow drum communicating with the steam injection chamber (S1) and a steam discharging aperture (33) for each hollow rotary disc at the peripheral wall of the hollow drum communicating with the steam discharging chamber (S2), whereby the steam injection and discharging chamber each communicate with the inner space (S) of the hollow rotary discs, f) second partition means (40) within each of the hollow rotary disc between the steam injection aperture and the steam discharging aperture thereof for directing steam from the steam injection aperture to steam discharging aperture, g) spray means (12) for spraying slurry-like material onto both surfaces of said hollow rotary discs, and h) scraper means (G) for scraping off the dried solid material from the surface of respective hollow rotary discs, the improvement being characterized in that the second partition means (40) is made of a plate which extends between the hollow drum and the outer surface of the rotary disc (11), and the plate defines an angle (α) in a drum rotating direction between the radially inner portion (40a) thereof and an extension of a line (L) which connects the center (O) of the hollow drum (30) and the radially inner proximal end (40b) of the plate which abuts to the outer surface of the hollow rotary drum. Due to such construction, the drain water produced in the rotary discs due to the heat exchanging operation can be effectively removed. <IMAGE>

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IPC 8 full level
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CPC (source: EP)
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Cited by
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