Title (en)

CENTRIFUGAL SIFTER

Publication

EP 0067894 B1 19860409 (DE)

Application

EP 81104729 A 19810619

Priority

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Abstract (en)

[origin: EP0067894A1] 1. A centrifugal air separator comprising a substantially cylindrical, upright housing, which is provided with an approximately tangential inlet (2) for separating air and which contains guide vanes (9) forming an annular array (9), which is radially spaced from and concentric to the housing shell and stationary relative to the housing, and a separating rotor (10), which is radially inwardly spaced from said array and provided with an annular array (11) of blades, which define radial passages, wherein an inlet (7) for a mixture of particles to be separated opens into the separating space (23) disposed between the annular array (9) of guide vanes and the separating rotor (10), an outlet (8) for coarse particles opens out of the separating space at the bottom, an outlet (3 or 4) for separating air which is laden with fine particles adjoins the separating rotor (10) on the end thereof and has a diameter which is approximately as large as the inside diameter of the separating rotor (10), and the inlet (7) for separating air and the annular array (9) of guide vanes extend over approximately the same axial length as the separating rotor, characterized in that two outlets (3, 4) for fine particles and separating air adjoin the two ends of the separating rotor (10), respectively, the diameter to length ratio of the separating rotor amounts to 1:1.5 to 1:4, and supporting discs (24) having axial passage openings and serving to mount the blades (11) of the separating rotor (10) are shrunk on the shaft (10a).

IPC 1-7

B07B 7/083; B07B 11/02; B07B 11/06

IPC 8 full level

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CPC (source: EP)

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