

Title (en)
Centrifugal separator with turbine

Title (de)
Turbo-Fliehkraftsichter

Title (fr)
Séparateur centrifuge à turbine

Publication
EP 0534483 B1 19980325 (DE)

Application
EP 92116543 A 19920928

Priority
DE 4132339 A 19910927

Abstract (en)
[origin: EP0534483A2] The invention relates to a centrifugal separator with turbine and a fixed casing, which is provided with one or more inlets for material to be separated, one or more separating air inlets, one or more fines/separating air mixture outlets, one or more coarse fraction outlets, a separating turbine which is mounted in the casing on both end faces and has a horizontal turbine spindle, and a bucket ring which bends the separating chamber, aligns the separating air and has buckets which are adjustable both at a radial distance from the turbine spindle and to an inflow direction which is tangential to the circumference of the turbine, and are perforated in one segment to permit feeding of material to be separated and discharging of the coarse fraction. The invention is based on the object of devising a centrifugal separator with turbine, in which the turbine is designed both as a separator and as an operating fan, and in which separating air and fines blow through part of the turbine from the outside inwards at a correspondingly low radial speed for separation of the fines and flow from the inside outwards at a radial speed which is many times greater to discharge the separating air and the fines.

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B02C 23/12 (2006.01); **B07B 7/083** (2006.01)

CPC (source: EP)
B02C 23/12 (2013.01); **B07B 7/083** (2013.01)

Citation (examination)
• DE 3814458 A1 19891109 - KRUPP POLYSIUS AG [DE]
• US 3767045 A 19731023 - VOELSKOW P

Cited by
CN111318456A

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AT CH DE ES FR GB GR IT LI NL SE

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