

Title (en)

Method and device for grinding materials of different granular sizes

Title (de)

Verfahren und Einrichtung zum Zerkleinern von Material unterschiedlicher Körnung

Title (fr)

Procédé et dispositif de broyage de matériau avec une granulométrie variable

Publication

**EP 0634219 B1 19990915 (DE)**

Application

**EP 94109122 A 19940614**

Priority

DE 4323587 A 19930714

Abstract (en)

[origin: EP0634219A1] The invention relates to a method for grinding materials of different granular size, in which particles of material to be ground, which are thrown off over the edge of a grinding dish (6), are transported upwards in a helical flow close to the housing wall with the aid of a gas-conducting arrangement (19) which generates a twisting or rotating flow. Under the influence of centrifugal force and gravity, a particle flow is formed essentially from external granular material which, as a deaerated dense flow (17), is not involved in the actual grinding and sifting process and is extracted at least in part from the grinding/sifting space. An extraction arrangement (25) is arranged on the housing wall in the radial direction above the grinding path and connected to a mechanical conveying arrangement, in particular for guiding back into the grinding/sifting space. <IMAGE>

IPC 1-7

**B02C 15/00**; **B02C 23/32**

IPC 8 full level

**B07B 7/083** (2006.01); **B02C 15/00** (2006.01); **B02C 15/04** (2006.01); **B02C 23/16** (2006.01); **B02C 23/30** (2006.01); **B02C 23/32** (2006.01)

CPC (source: EP KR US)

**B02C 13/28** (2013.01 - KR); **B02C 13/286** (2013.01 - KR); **B02C 13/30** (2013.01 - KR); **B02C 15/001** (2013.01 - EP US); **B02C 23/16** (2013.01 - EP US); **B02C 23/32** (2013.01 - EP US); **B02C 2013/28609** (2013.01 - KR); **B02C 2015/002** (2013.01 - EP US)

Cited by

EP0979675A1; CN109847888A; US2022219174A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GR IT LI SE

DOCDB simple family (publication)

**EP 0634219 A1 19950118**; **EP 0634219 B1 19990915**; AT E184508 T1 19991015; CA 2127389 A1 19950115; CN 1122730 A 19960522; DE 4323587 A1 19950119; DE 4323587 C2 19960718; DE 59408740 D1 19991021; DK 0634219 T3 20000403; ES 2138636 T3 20000116; JP H07163895 A 19950627; KR 950002859 A 19950216; TW 302298 B 19970411; US 5531388 A 19960702; VN 339 A1 19970425; ZA 944315 B 19950213

DOCDB simple family (application)

**EP 94109122 A 19940614**; AT 94109122 T 19940614; CA 2127389 A 19940705; CN 94107551 A 19940711; DE 4323587 A 19930714; DE 59408740 T 19940614; DK 94109122 T 19940614; ES 94109122 T 19940614; JP 16036794 A 19940712; KR 19940016756 A 19940712; TW 83106856 A 19940727; US 23094694 A 19940421; VN 78094 A 19940709; ZA 944315 A 19940617