

Title (en)  
STIRRING-TYPE GRINDING SEPARATOR AND GRINDING DEVICE

Title (de)  
SCHLEIFABSCHIEDER VOM RÜHRTYP UND SCHLEIFVORRICHTUNG

Title (fr)  
SÉPARATEUR DE BROyage DU TYPE À AGITATION ET DISPOSITIF DE BROyage

Publication  
**EP 3441144 A4 20190508 (EN)**

Application  
**EP 16901222 A 20160509**

Priority  
CN 2016081468 W 20160509

Abstract (en)  
[origin: EP3441144A1] A grinding separator includes a separation cover and a separation impeller. A spiral separator is disposed in the separation cover and has an end connected with the separation impeller and an end matched with a through hole in the separation cover. In work, a separation rotating shaft rotates at a high speed, materials enter a spiral groove via channels between blades under the effect of the separation impeller, are distributed, under the effect of a centrifugal force generated by the spiral separator, with the mass gradually decreased from the bottom to the end of the spiral groove, and are pushed to move towards a discharging channel from the spiral groove, and when transferred to an outlet of a separation channel under the effect of spiral groove, the materials are separated and discharged. As separated materials are screened out to enter the separation cover, the situation that large materials and small materials are gathered at a separation port at the same time is avoided, and thus, the material discharging efficiency and speed are improved, and the grinding efficiency is improved.

IPC 8 full level  
**B02C 23/08** (2006.01); **B02C 17/16** (2006.01); **B02C 17/18** (2006.01)

CPC (source: EP)  
**B02C 17/161** (2013.01); **B02C 17/1835** (2013.01); **B02C 23/08** (2013.01)

Citation (search report)

- [X] EP 2857105 A1 20150408 - CANGZHOU HUAYOU FEIDA SOLIDS CONTROL EQUIPMENT CO LTD [CN]
- [A] DE 102010053484 A1 20120606 - NETZSCH FEINMAHLTECHNIK [DE]
- [A] EP 2036613 A2 20090318 - NETZSCH FEINMAHLTECHNIK [DE]
- See also references of WO 2017193267A1

Cited by  
CN113546731A

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3441144 A1 20190213; EP 3441144 A4 20190508; EP 3441144 B1 20231011**; ES 2963544 T3 20240327; HU E064931 T2 20240428; WO 2017193267 A1 20171116

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**EP 16901222 A 20160509**; CN 2016081468 W 20160509; ES 16901222 T 20160509; HU E16901222 A 20160509