

Title (en)

Apparatus and method of breaking pieces of solid mineral material in fragments, and method of sorting fragments of solid mineral material according to size.

Title (de)

Vorrichtung und Verfahren zum Zerkleinern von Mineralfeststoffen in kleine Teilchen und Verfahren zum Sortieren von Mineralfeststoffteilchen nach Grösse.

Title (fr)

Appareil et procédé pour le broyage en particules de matière minérale solide et procédé de triage de particules de matière minérale solide en fonction de leur taille.

Publication

EP 0372149 B1 19940817 (EN)

Application

EP 89104643 A 19890315

Priority

JP 30850188 A 19881205

Abstract (en)

[origin: EP0372149A2] A centrifugal breaking apparatus is constructed so that for having an effect on the breaking function, the pieces of solid mineral material are thrown from the axle of the rotor, when rotating at an increased speed, in tangential directions, through the radial outlets of the rotor by centrifugal force to strike against the "dead bed" of fragments of solid mineral material which encircles the rotor, then fragments are reduced by vibrating the "dead bed".

IPC 1-7

B02C 19/00; **B02C 19/16**

IPC 8 full level

B02C 19/00 (2006.01); **B02C 13/08** (2006.01); **B02C 13/18** (2006.01); **B02C 19/16** (2006.01); **B02C 23/10** (2006.01)

CPC (source: EP KR)

B02C 13/1835 (2013.01 - EP); **B02C 19/00** (2013.01 - KR); **B02C 19/16** (2013.01 - EP); **B04B 3/06** (2013.01 - KR); **B02C 2013/1885** (2013.01 - EP)

Cited by

US5145118A; CN108906227A; CN113289725A

Designated contracting state (EPC)

AT CH DE ES FR GB IT LI SE

DOCDB simple family (publication)

EP 0372149 A2 19900613; **EP 0372149 A3 19910123**; **EP 0372149 B1 19940817**; AT E110008 T1 19940915; AU 3252789 A 19900607; AU 620600 B2 19920220; DE 372149 T1 19901220; DE 68917566 D1 19940922; DE 68917566 T2 19950112; ES 2017447 A4 19910216; ES 2017447 T3 19941016; JP H02152558 A 19900612; JP H0783837 B2 19950913; KR 900009141 A 19900702; KR 930009716 B1 19931009; NZ 228547 A 19911223; ZA 893124 B 19891227

DOCDB simple family (application)

EP 89104643 A 19890315; AT 89104643 T 19890315; AU 3252789 A 19890406; DE 68917566 T 19890315; DE 89104643 T 19890315; ES 89104643 T 19890315; JP 30850188 A 19881205; KR 890002029 A 19890331; NZ 22854789 A 19890330; ZA 893124 A 19890427