

Title (en)
VIBRATING CONE CRUSHER

Title (de)
VIBRATIONS-KEGELBRECHER

Title (fr)
BROYEUR VIBRANT A CONE

Publication
EP 0833692 A1 19980408 (FR)

Application
EP 96922092 A 19960611

Priority
• FR 9600879 W 19960611
• FR 9506964 A 19950613

Abstract (en)
[origin: US5996915A] PCT No. PCT/FR96/00879 Sec. 371 Date Apr. 6, 1998 Sec. 102(e) Date Apr. 6, 1998 PCT Filed Jun. 11, 1996 PCT Pub. No. WO96/41680 PCT Pub. Date Dec. 27, 1996A vibrating cone crusher which crushes material between a cone and a frustoconical ring located therearound. An annular frame supports the ring and a device for generating circular vibrations in a horizontal plane. Tie rods connect the frame to a cone holder. Vertical vibration that disrupts crusher operation is reduced or neutralized by positioning the center of gravity of the cone, the cone holder, the frame, and items supported thereon adjacent the plane of vibratory forces.

IPC 1-7
B02C 2/04

IPC 8 full level
B02C 2/04 (2006.01)

CPC (source: EP US)
B02C 2/042 (2013.01 - EP US); **B02C 2/047** (2013.01 - EP US)

Citation (search report)
See references of WO 9641680A1

Cited by
WO2018154189A1; WO2018154222A1; US11369969B2

Designated contracting state (EPC)
AT BE DE ES FI GB IT NL PT SE

DOCDB simple family (publication)
US 5996915 A 19991207; AT E199843 T1 20010415; AU 6308996 A 19970109; AU 707703 B2 19990715; BR 9608528 A 19991130; CA 2223019 A1 19961227; CA 2223019 C 20021112; CN 1087195 C 20020710; CN 1193290 A 19980916; DE 69612199 D1 20010426; DE 69612199 T2 20011108; EG 20761 A 20000131; EP 0833692 A1 19980408; EP 0833692 B1 20010321; ES 2159034 T3 20010916; FR 2735402 A1 19961220; FR 2735402 B1 19970814; JO 1922 B1 19970115; MA 23906 A1 19961231; MX 9710031 A 19980830; NO 314716 B1 20030512; NO 975855 D0 19971212; NO 975855 L 19980205; NZ 311717 A 19991129; PT 833692 E 20010928; RU 2161071 C2 20001227; TR 199701603 T1 19980521; WO 9641680 A1 19961227; ZA 965046 B 19970123

DOCDB simple family (application)
US 97382798 A 19980406; AT 96922092 T 19960611; AU 6308996 A 19960611; BR 9608528 A 19960611; CA 2223019 A 19960611; CN 96196240 A 19960611; DE 69612199 T 19960611; EG 54596 A 19960622; EP 96922092 A 19960611; ES 96922092 T 19960611; FR 9506964 A 19950613; FR 9600879 W 19960611; JO P19961922 A 19960907; MA 24279 A 19960612; MX 9710031 A 19971210; NO 975855 A 19971212; NZ 31171796 A 19960611; PT 96922092 T 19960611; RU 98100486 A 19960611; TR 9701603 T 19960611; ZA 965046 A 19960613