

Title (en)
BALL MILL

Title (de)
KUGELMÜHLE

Title (fr)
BROYEUR A BOULETS

Publication
EP 1181101 B1 20030702 (FR)

Application
EP 00925386 A 20000504

Priority
• FR 0001202 W 20000504
• FR 9905832 A 19990507

Abstract (en)
[origin: US6547171B1] The ball mill is of the type including: a rotary drum (11, 12, 13) having a horizontal axis (XX') and each end of which is supported by a journal (14, 15) which terminates it and through which passes an axial tube (41) around which it delimits an annular duct (35), a vertical pipe (6) discharging in the vicinity of the journal at the level of a guide member (31) for directing material to be pulverized from the pipe towards the drum, and an outlet duct (36) communicating with the annular duct for ejecting from the drum the mixture consisting of the gas and the pulverized material. Each journal contains a rigid helicoidal Archimedes screw structure (32) fixed to it and turning with it about the tube, when the drum rotates, which tube is a rigid immobile gas injector tube.

IPC 1-7
B02C 17/18

IPC 8 full level
B02C 17/18 (2006.01)

CPC (source: EP US)
B02C 17/183 (2013.01 - EP US); **B02C 17/1875** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
US 6547171 B1 20030415; AT E244071 T1 20030715; AU 4412800 A 20001121; AU 756235 B2 20030109; CA 2368066 A1 20001116; CA 2368066 C 20070717; CN 1209198 C 20050706; CN 1350478 A 20020522; CZ 20014014 A3 20020313; DE 60003678 D1 20030807; EP 1181101 A1 20020227; EP 1181101 B1 20030702; ES 2202116 T3 20040401; FR 2793168 A1 20001110; FR 2793168 B1 20010622; JP 2002543966 A 20021224; PL 194742 B1 20070629; PL 352405 A1 20030825; WO 0067910 A1 20001116; ZA 200108760 B 20021224

DOCDB simple family (application)
US 95972101 A 20011106; AT 00925386 T 20000504; AU 4412800 A 20000504; CA 2368066 A 20000504; CN 00807296 A 20000504; CZ 20014014 A 20000504; DE 60003678 T 20000504; EP 00925386 A 20000504; ES 00925386 T 20000504; FR 0001202 W 20000504; FR 9905832 A 19990507; JP 2000616928 A 20000504; PL 35240500 A 20000504; ZA 200108760 A 20011024