

Title (en)

A grinding process and a drum lining

Title (de)

Mahlverfahren und Auskleidung für Mahltrommel

Title (fr)

Procédé de broyage et revêtement pour tambour de broyeur

Publication

**EP 0714703 B1 20000209 (EN)**

Application

**EP 95850200 A 19951113**

Priority

SE 9404159 A 19941130

Abstract (en)

[origin: EP0714703A1] A method of grinding a batch of material, particularly ceramic material, together with a multiple of grinding media in a rotary mill drum which includes a polymer lining having elongated lifting devices which are positioned axially in the drum and which protrude radially into the drum interior. With the intention of making grinding more effective and of reducing grinding time, it is proposed in accordance with the invention that the method will comprise the steps of: rotating the drum at a constant speed in a first direction of rotation during a first time interval, so that grinding media from said grinding media multiple are brought into contact with a high-lifting side of the lifting devices as the drum rotates, to grind or disintegrate the material with a larger crush proportion and a smaller fine-grinding proportion; and - rotating the drum at said constant speed in a rotational direction opposite to the first rotational direction in a second time interval following said first time interval, so that grinding media in said grinding media multiple are brought into contact with a low-lifting side of said lifting devices opposite to the high-lifting side thereof, so as to grind the material with a smaller crush proportion and a larger fine-grinding proportion. The invention also relates to a mill lining for use with such a method.  
<IMAGE>

IPC 1-7

**B02C 17/24**; **B02C 17/22**

IPC 8 full level

**B02C 17/00** (2006.01); **B02C 17/22** (2006.01); **B02C 17/24** (2006.01); **B24B 31/02** (2006.01); **B24B 31/12** (2006.01)

CPC (source: EP KR)

**B02C 15/02** (2013.01 - KR); **B02C 17/225** (2013.01 - EP); **B02C 17/24** (2013.01 - EP); **B24B 31/02** (2013.01 - EP); **B24B 31/12** (2013.01 - EP)

Cited by

EP1023969A1; CN113977427A; EP3414014A4; US10668478B2; US6431955B1; WO0010753A1

Designated contracting state (EPC)

DE ES FR GB IT NL

DOCDB simple family (publication)

**EP 0714703 A1 19960605**; **EP 0714703 B1 20000209**; AR 002457 A1 19980325; BR 9505598 A 19971104; CN 1071622 C 20010926; CN 1133220 A 19961016; DE 69514996 D1 20000316; DE 69514996 T2 20000608; ES 2143610 T3 20000516; JP 3616182 B2 20050202; JP H08206526 A 19960813; KR 100400439 B1 20031218; KR 960016971 A 19960617; MX 9504956 A 19970131; SE 503673 C2 19960729; SE 9404159 D0 19941130; SE 9404159 L 19960531; TW 372905 B 19991101

DOCDB simple family (application)

**EP 95850200 A 19951113**; AR 10035895 A 19951129; BR 9505598 A 19951130; CN 95121887 A 19951130; DE 69514996 T 19951113; ES 95850200 T 19951113; JP 31067095 A 19951129; KR 19950044223 A 19951128; MX 9504956 A 19951128; SE 9404159 A 19941130; TW 84112688 A 19951129