

Title (en)
Device for pulverization of difficult grindable material.

Title (de)
Vorrichtung zum Mahlen von schwer mahlbarem Gut.

Title (fr)
Dispositif pour broyer des matériaux difficiles à broyer.

Publication
EP 0233978 A1 19870902 (DE)

Application
EP 86105261 A 19860416

Priority
DE 3541279 A 19851122

Abstract (en)
1. Apparatus for the grinding of products, for 5 example coal, coke, cement and similar, as well as pastes and soft products, - with a circular cylindrical grinding drum, - with a grinding roll disposed axially unidirectionally in the grinding drum, said grinding roll extending over the whole length of the grinding drum, being drivable and supported rotatably on both sides on the mill foundations and defining with its outer shell and the inner shell of the grinding drum a circular grinding chamber, - and with several grinding rollers distributed peripherally in the grinding chamber which are aligned axially parallel to the axis of the grinding drum or the grinding roll, which likewise extend over the whole length of the grinding drum and which are supported rotatably on both sides with mutual distancing on a common grinding roller holder, the grinding roller holder (43) being arranged to be stationary outside the grinding drum (13), characterised in that the grinding roller holder (43) is swivellably supported to be adjustable about a pivot (50) supported on the mill foundations (10) and in that the grinding rollers (34) are also distanced from the outer shell (28) of the grinding roll (22) and from the inner shell (30) of the grinding drum (13) and every other grinding roller (34) is drivable rotatably in the opposite direction to the grinding roll (22).

Abstract (de)
Die Erfindung betrifft ein Verfahren zur Mahlung von schwer mahlbarem Gut, insbesondere von Produkten der Bausteine-Erden-Industrie wie feuchter Kohle oder Koks zwischen rotierenden Mahlkörpern und einer Mahlbahn. Das Verfahren ist dadurch gekennzeichnet, daß in einem Arbeitsgang die Endfeinheit erreicht wird. Das erfolgt in dem die Mahlung auf einem Gutbett unter hohem, spezifischen Druck erfolgt, weil das Mahlgut von Mahlkörpern zwischen exzentrischen, zylindrischen Mahlbahnen mehrfach überlaufen und mitgenommen wird. Die Erfindung betrifft weiterhin ein Vorrichtung, die eine zylindrische Mahltrommel (30), eine in der Mahltrommel aufgenommene, in angetriebene Drehung versetzbare Walze (22) und in einem Spalt (32) zwischen Walze und Trommel wirkende, rotierende Mahlkörper (34) hat. Auf dem Innenmantel der Trommel sind den Mahlsplatt verengende Anlaufbahnen angebracht.

IPC 1-7
B02C 4/32; B02C 15/08

IPC 8 full level
B02C 4/32 (2006.01); **B02C 15/08** (2006.01); **B02C 15/12** (2006.01)

CPC (source: EP)
B02C 15/123 (2013.01)

Citation (search report)
• DE 2138025 B2 19751009
• DE 376146 C 19230528 - MAX CAHN
• US 554802 A 18960218
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• DE 127693 C
• DE 2132914 A1 19730118 - KRUPP GMBH

Cited by
US11786909B2; WO2022104455A1

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

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EP 0233978 A1 19870902; EP 0233978 B1 19900207; AT E50159 T1 19900215; DE 3541279 A1 19870527; DE 3541279 C2 19871112; DE 3668795 D1 19900315

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EP 86105261 A 19860416; AT 86105261 T 19860416; DE 3541279 A 19851122; DE 3668795 T 19860416