

Title (en)
Ball mill.

Title (de)
Kugelmühle.

Title (fr)
Broyeur à billes.

Publication
EP 0179048 A2 19860423 (DE)

Application
EP 85890253 A 19851009

Priority
AT 328884 A 19841015

Abstract (en)
1. Rotary, cylindrical ball mill with an inner lining (1), which has approximately circumferentially parallel grooves (2) and within which are arranged grinding balls (3), the adjacent grooves (2) being reciprocally bounded by approximately circumferentially directed webs (3) and the centre distances (a) between the adjacent grooves (2) are smaller than the diameter (b) of the largest grinding ball (3), characterized in that the grooves (2) have a circular segmental cross-section and that in cross-section through the webs (4) the flanks (5) thereof pass into one another via a rounded portion (6).

Abstract (de)
Die zylindrische Kugelmühle weist eine Innenauskleidung (1) mit in Umfangsrichtung verlaufenden kreissegmentförmigen Rillen (2) auf. Der Mittelabstand (a) benachbarter Rillen (2) voneinander ist kleiner als der Durchmesser (b) der größten Mahlkugel (3). Die Rillen (2) gehen über Flanken (5) und eine Abrundung (6) ineinander über, deren Radius (7) vorzugsweise dem 0.15 bis 0.17-fachen des Radius (c) des Rillenquerschnittes entspricht. Die Mittelabstände (a) benachbarter Rillen (2) entsprechen dem $\sqrt{3}$ -fachen des Radius (b) der größten Mahlkugel (3).

IPC 1-7
B02C 17/22

IPC 8 full level
B02C 17/22 (2006.01)

CPC (source: EP)
B02C 17/22 (2013.01)

Cited by
EP0245232A3; CN100384537C

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

DOCDB simple family (publication)
EP 0179048 A2 19860423; EP 0179048 A3 19870128; EP 0179048 B1 19881207; AT 380411 B 19860526; AT A328884 A 19851015; BR 8505088 A 19860729; DE 3566621 D1 19890112; ES 547831 A0 19860901; ES 8608930 A1 19860901; IN 163326 B 19880910; JP S6197049 A 19860515

DOCDB simple family (application)
EP 85890253 A 19851009; AT 328884 A 19841015; BR 8505088 A 19851014; DE 3566621 T 19851009; ES 547831 A 19851014; IN 672CA1985 A 19850923; JP 22706985 A 19851014