

Title (en)  
Milling surfaces for roller mills.

Title (de)  
Mahlfläche von Wälzmühlen.

Title (fr)  
Surfaces de broyage pour broyeurs à rouleaux.

Publication  
**EP 0405518 A2 19910102 (DE)**

Application  
**EP 90112285 A 19900627**

Priority  
DE 3921419 A 19890629

Abstract (en)  
[origin: JPH0347543A] PURPOSE: To prolong the life of grinding surfaces by constituting grinding rollers and grinding plate facing the grinding surfaces in such a manner that the surfaces of their stationary bodies have the form of stepping at the axial cross- section and that the shoulder parts of the stepping form support segments. CONSTITUTION: A segment type clad mounted at the stationary bodies 5 and 40 made of iron or the like is formed of material having the wear resistance considerably higher than that of the stationary bodies 5 and 40 to surely fix the segments 10 and 41. The segments 10 and 41 are made of a ceramic compd. and the grinding surfaces 3 and 49 are composed of the outside surfaces of the segments 10 and 41 over the entire surface. The surfaces of the stationary bodies 5, 40 of the grinding rollers 1 and the grinding plate 40 to the grinding surfaces 3 and 49 are provided with the form of stepping at the axial cross-section in order to surely fix the segments 10 and 41 against dynamic stresses in at least the radial direction of the grinding route surfaces of the roll mill. The segments 10 and 41 of the clad are supported by the shoulder parts 13 and 42 of this stepping form.

Abstract (de)  
Die Erfindung betrifft eine Mahlfläche von Wälzmühlen und Walzenmühlen und speziell die Mahlfläche von Mahlwalzen und einer Mahlbahn. Da die bisherigen Lösungen zur Erhöhung der Standzeiten der Mahlflächen als unzureichend angesehen werden, werden nunmehr Keramiksegmente (10) als Verschleißpanzerung verwendet, die auch gegenüber dynamischen Beanspruchungskräften am Grundkörper bzw. Basismantel (5) fixiert sind.

IPC 1-7  
**B02C 4/30**; **B02C 15/00**

IPC 8 full level  
**B02C 4/30** (2006.01); **B02C 15/00** (2006.01); **B02C 15/04** (2006.01)

CPC (source: EP US)  
**B02C 4/305** (2013.01 - EP US); **B02C 15/005** (2013.01 - EP US); **B02C 15/003** (2013.01 - EP US); **B02C 2015/002** (2013.01 - EP US)

Cited by  
CN102151591A; CN102179277A; EP2110023A1; CN106925383A; EP0804965A1; US5839677A; EP0589774A1; FR2695841A1; WO2013001093A3; US10099222B2; US10933423B2

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