

Title (en)
Milling surfaces for roller mills.

Title (de)
Mahlfläche von Wälzmühlen.

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

Publication
EP 0405518 B1 19940420 (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.

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

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

Designated contracting state (EPC)
CH DE DK ES FR GB IT LI

DOCDB simple family (publication)
EP 0405518 A2 19910102; **EP 0405518 A3 19910612**; **EP 0405518 B1 19940420**; DE 3921419 A1 19910110; DE 3921419 C2 19911121; DE 59005413 D1 19940526; JP H0347543 A 19910228; US 5114082 A 19920519; ZA 904865 B 19910327

DOCDB simple family (application)
EP 90112285 A 19900627; DE 3921419 A 19890629; DE 59005413 T 19900627; JP 17428690 A 19900629; US 54197990 A 19900622; ZA 904865 A 19900622