

Title (en)

SUPPORT BODIES AND METHOD FOR IMPROVING WEAR AND TEAR ON SUPPORT BODIES IN LARGE-SCALE GRINDERS

Title (de)

STÜTZKÖRPER SOWIE VERFAHREN ZUR VERBESSERUNG DER VERSCHLEISSITUATION VON STÜTZKÖRPERN BEI BREITSCHLEIFMASCHINEN

Title (fr)

ELEMENTS D'APPUI ET PROCEDE POUR AMELIORER L'ETAT D'USURE D'ELEMENTS D'APPUI DE RECTIFIEUSES LARGES

Publication

EP 1377411 B1 20070307 (DE)

Application

EP 02708125 A 20020409

Priority

- CH 0200198 W 20020409
- CH 6782001 A 20010411

Abstract (en)

[origin: WO02083362A1] The invention relates to a method for improving wear and tear on support bodies (54) for plates or grinding belts in large-scale grinders (1). The support body (54) has a base body (18), onto which an abrasion-resistant primary layer of at least 0.3 mm thickness is applied using a thermal spraying process. This is configured as an inhomogeneous layer with an oxide entrapment of a specific porosity. If the support body (54) is a roll for the forward feed unit (20, 28), the roll body is roughened and a primer and the primary layer are applied using a thermal spraying process. Approximately 50 % of the primary layer consists of chromium steel, in particular 13 % chromium steel and an abrasion-resistant hard material and said primary layer provides a coarse surface with good grip that is resistant to wear and tear. If the support body (54) is a grinding-belt contact roll (9, 9'), the latter is polished after the thermal spraying process. If the support body (54) is a grinding belt shoe (50), the base body (18) is roughened and an adhesive layer and then the primary layer are applied in a thermal spraying process. The wear-resistant primary layer is polished to create a smooth surface and the layer construction is configured to produce a high degree of slip.

IPC 8 full level

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CPC (source: EP US)

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- DE 8814128 U1 19890309
- US 5644828 A 19970708 - SAILER COLIN [DE], et al

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