

Title (en)

Surface-coated hard metal body and method of producing the same.

Title (de)

Beschichteter Hartmetallkörper und Verfahren zu seiner Herstellung.

Title (fr)

Élément en métal dur revêtu et procédé de sa fabrication.

Publication

EP 0083842 A1 19830720 (EN)

Application

EP 82306473 A 19821206

Priority

- US 33136781 A 19811216
- US 33136881 A 19811216

Abstract (en)

Improved adherence of oxide wear layers on hard metal or cemented carbide substrates is obtained by providing a thin surface-oxidized bonding layer comprising a carbide or oxycarbide of at least one of tantalum, niobium or vanadium, optionally adding aluminum to the bonding layer, and finally providing an outer oxide wear layer.

IPC 1-7

C22C 29/00; B22F 7/04; C23C 11/08

IPC 8 full level

C23C 30/00 (2006.01)

CPC (source: EP)

C23C 30/005 (2013.01)

Citation (search report)

- US 4019873 A 19770426 - REITER NORBERT
- US RE29420 E 19770927
- US 4018631 A 19770419 - HALE THOMAS E
- EP 0032887 A1 19810729 - SANDVIK AB [SE]
- PATENT ABSTRACTS OF JAPAN, unexamined applications, field C, vol. 5, no. 28, February 20, 1981 THE PATENT OFFICE JAPANESE GOVERNMENT page 122 C 44 * JP - A - 55-154 564 (SUMITOMO) *
- PATENT ABSTRACTS OF JAPAN, unexamined applications, field C, vol. 4, no. 178, December 10, 1980 THE PATENT OFFICE JAPANESE GOVERNMENT, page 116 C 34 * JP - A - 55-119 165 (TOSHIBA) *

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Designated contracting state (EPC)

AT BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0083842 A1 19830720; **EP 0083842 B1 19890712**; CA 1198945 A 19860107; DE 3279814 D1 19890817

DOCDB simple family (application)

EP 82306473 A 19821206; CA 417957 A 19821216; DE 3279814 T 19821206