

Title (en)

ANTIWEAR-COATED METAL COMPONENT, IN PARTICULARLY FOR A BALL VALVE, AND METHOD FOR APPLYING A MULTI-LAYER ANTIWEAR COATING IN ORDER TO PRODUCE A COMPONENT OF THIS TYPE

Title (de)

VERSCHLEIßSCHUTZBESCHICHTETES METALLISCHES BAUTEIL INSBESONDERE FÜR EIN KUGELVENTIL UND VERFAHREN ZUM AUFBRINGEN EINER MEHRSCICHTIGEN VERSCHLEIßSCHUTZSCHICHT ZUR ERZEUGUNG EINES SOLCHEN BAUTEILS

Title (fr)

ÉLÉMENT MÉTALLIQUE REVÊTU D'UNE PROTECTION CONTRE L'USURE, EN PARTICULIER POUR UNE SOUPAPE SPHÉRIQUE, ET PROCÉDÉ POUR APPLIQUER UNE COUCHE DE PROTECTION CONTRE L'USURE MULTICOUCHE AFIN DE PRODUIRE UN TEL ÉLÉMENT

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Application

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Abstract (en)

[origin: WO2019161981A1] The invention relates to an antiwear-coated metal component (1), in particular for a ball valve (6), the tribosurface of which component is at least partially provided with a multi-layer antiwear coating (2). The antiwear coating (2) has at least a metal adhesion layer (3a), an adhesion-promoting layer (3b) and at least one first cover layer (3c). The adhesion-promoting layer (3b) comprises a carbide-forming metal or a boride-forming metal. The at least first cover layer (3c) comprises a hydrogen-free tetrahedral carbon. The invention further relates to a method for applying an antiwear coating (2) to a metal substrate (9) in order to produce an antiwear-coated metal component (1) of this type. The invention further relates to a ball valve, comprising an antiwear-coated metal component (1) of this type and an antiwear coating (2).

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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