

Title (en)

WEAR-RESISTANT ELEMENT FOR A COMMINUTING APPARATUS

Title (de)

VERSCHLEISSSCHUTZELEMENT FÜR EINE ZERKLEINERUNGSEINRICHTUNG

Title (fr)

ÉLÉMENT RÉSISTANT À L'USURE POUR UN APPAREIL DE BROYAGE

Publication

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Application

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Abstract (en)

[origin: WO2021105237A1] The invention comprises a wear-resistant element (16) for partial insertion into a recess (26) in the surface of a wear face (12) of a comminuting apparatus, the wear-resistant element (16) having a fastening region (24), which can be connected to the recess (26) in the surface of the wear face (12), and having a wear region (22), which projects at least some way out of the surface of the wear face (12), wherein the fastening region (24) is formed from a metal, wherein the wear region (22) has a lateral surface (18) and a core (20), which is arranged within the lateral surface (18), wherein the core (20) is formed from a metal and the lateral surface (18) is formed from a ceramic substance (20), and wherein the material of the lateral surface comprises a ceramic substance which contains yttrium-stabilized tetragonal polycrystalline zirconia (TPZ), the TPZ containing a proportion by volume of at least 60%, preferably at least 80%, in particular 95% to 100%, of the ceramic substance.

IPC 8 full level

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CPC (source: CN EP US)

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- EP 2512680 B1 20190102 - METSO SWEDEN AB [SE]
- EP 3088084 B1 20171122 - TAKRAF GMBH [DE]

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