

Title (en)

CERAMIC CUTTING TOOL WITH AN EDGE AREA, METHOD FOR THE PRODUCTION AND USE THEREOF

Title (de)

KERAMISCHES SCHNEIDWERKZEUG MIT EINER RANDZONE, VERFAHREN ZUR HERSTELLUNG UND VERWENDUNG

Title (fr)

OUTIL DE COUPE EN CERAMIQUE DOTE D'UNE ZONE PERIPHERIQUE, PROCEDE DE FABRICATION ET UTILISATION ASSOCIES

Publication

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Application

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Abstract (en)

[origin: WO2004065045A1] The invention relates to a multi-phase ceramic cutting tool with improved resistance to wear and tear on the edge area or the edge layer. Said tool is made of a ceramic base material and a sacrificial phase, and contains additives and primary hard material phases and has a long-wearing, hard, non-separated, optionally multi-layered edge area or edge layer. Said edge area consists of at least one hard substance phase. As a result of the diffusion and transposition processes, the edge area internally knits with the starting ceramic and is formed by relocating the output ceramic in a defined atmosphere.

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