

Title (en)

A METHOD OF PRODUCING A TOOL FOR CUTTING, DRILLING OR CRUSHING OF SOLID MATERIAL, AND SUCH A TOOL

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES WERKZEUGS ZUM SCHNEIDEN, BOHREN UND ZERKLEINERN VON FESTEM MATERIAL UND SOLCH EIN WERKZEUG

Title (fr)

PROCÉDÉ DE PRODUCTION D'UN OUTIL DE COUPE, DE PERÇAGE OU DE BROYAGE D'UN MATÉRIAU SOLIDE ET UN TEL OUTIL

Publication

EP 3297782 A1 20180328 (EN)

Application

EP 16725458 A 20160519

Priority

- EP 15168655 A 20150521
- EP 2016061238 W 20160519

Abstract (en)

[origin: WO2016184956A1] A tool (1) for cutting, drilling or crushing of solid material, wherein -said tool (1) comprises a cemented carbide body (2) attached to a steel holder (3) by a braze joint located between a base surface (8) of the cemented carbide body (2) and the steel holder (3), - said cemented carbide body (2) comprises a hard phase mainly comprised by tungsten carbide, WC, and a binder consisting of cobalt, wherein the cobalt content of the cemented carbide body (2) is equal to or lower than about 5.5 wt%, and wherein, - the cemented carbide body (2) presents a cobalt content gradient therein wherein the cobalt content increases towards said base surface (8) and is at least 4.5 wt% at said base surface (8), - the ratio cobalt content at the base surface to cobalt content of the cemented carbide is ≥ 1.09 . A method for producing the tool is also presented.

IPC 8 full level

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CPC (source: EP US)

B22F 7/08 (2013.01 - EP US); **C22C 1/051** (2013.01 - EP US); **C22C 1/055** (2013.01 - EP US); **C22C 1/056** (2013.01 - EP US); **C22C 1/1094** (2013.01 - EP US); **C22C 29/005** (2013.01 - US); **C22C 29/08** (2013.01 - US); **E21C 35/19** (2013.01 - US); **B22F 2005/001** (2013.01 - EP US); **B22F 2999/00** (2013.01 - EP US)

C-Set (source: EP US)

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Citation (search report)

See references of WO 2016184956A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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