

Title (en)

SINTERED SUPERHARD COMPACT FOR CUTTING TOOL APPLICATIONS AND METHOD OF ITS PRODUCTION

Title (de)

GESINTERTER SUPERHARTER PRESSKÖRPER FÜR SCHNEIDWERKZEUG UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)

COMPACT FRITTÉ EXTRA-DUR POUR APPLICATIONS D'OUTILS DE COUPE ET SON PROCÉDÉ DE FABRICATION

Publication

EP 2855399 A1 20150408 (EN)

Application

EP 13730401 A 20130531

Priority

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- US 2013043600 W 20130531

Abstract (en)

[origin: US2013323107A1] A method and composition of a sintered superhard compact is provided. The sintered superhard compact body may comprise superhard particles and a binder phase. The binder phase may bond the superhard particles together. The binder phase comprises tungsten and cobalt. The ratio of tungsten to cobalt is between 1 and 2 and sum of W and Co in the sintered superhard compact is in a range of from about 2 to about 20 percent by weight.

IPC 8 full level

C04B 35/52 (2006.01); **C04B 35/5831** (2006.01); **C22C 26/00** (2006.01)

CPC (source: CN EP KR US)

B22F 3/02 (2013.01 - US); **B22F 3/12** (2013.01 - US); **C04B 35/58014** (2013.01 - EP US); **C04B 35/58021** (2013.01 - EP US); **C04B 35/5831** (2013.01 - EP US); **C22C 1/05** (2013.01 - US); **C22C 26/00** (2013.01 - CN EP KR US); **C22C 29/005** (2013.01 - CN EP KR US); **C22C 29/04** (2013.01 - CN EP KR US); **C22C 29/16** (2013.01 - CN EP KR US); **C04B 2235/3804** (2013.01 - EP US); **C04B 2235/3813** (2013.01 - EP US); **C04B 2235/386** (2013.01 - EP US); **C22C 2026/006** (2013.01 - EP KR US); **C22C 2026/007** (2013.01 - EP KR US); **C22C 2026/008** (2013.01 - CN EP KR US)

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Designated extension state (EPC)

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