

Title (en)

COMPOSITE AND PROCESS FOR THE PRODUCTION THEREOF

Title (de)

VERBUNDWERKSTOFF UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)

MATERIAU COMPOSITE ET SON PROCEDE DE PRODUCTION

Publication

EP 0827433 A1 19980311 (DE)

Application

EP 95916564 A 19950426

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- DE 9500548 W 19950426

Abstract (en)

[origin: US6124040A] PCT No. PCT/DE95/00548 Sec. 371 Date Nov. 20, 1997 Sec. 102(e) Date Nov. 20, 1997 PCT Filed Apr. 26, 1995 PCT Pub. No. WO96/33830 PCT Pub. Date Oct. 31, 1996The invention concerns composites substantially consisting of: a cermet material having a binder metal phase of between 5 and 30 mass % and the remainder comprising at least one carbon nitride phase; or a hard metal with a hard material phase of between 70 and 100 %, the remainder being a binder metal phase, with the exception of a WC-Co hard metal, with up to 25 mass % cobalt as binder metal; or a powder-metallurgically produced steel. The invention further concerns a process for producing this composite. In order to improve bending strength and hardness, sintering is carried out in a microwave field.

IPC 1-7

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