

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**

Priority

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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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