

Title (en)

PROCESS FOR PRODUCING TITANIUM CARBIDE, TITANIUM NITRIDE, OR TUNGSTEN CARBIDE HARDENED MATERIALS

Title (de)

HERSTELLUNGSVERFAHREN FÜR TITANIUMKARBID-, TITANIUMNITRID- ODER WOLFRAMKARBID-GEHÄRTETE MATERIALIEN

Title (fr)

PROCEDE DE PRODUCTION DE MATERIAUX DURCIS DE CARBURE DE TITANE, DE NITRURE DE TITANE, OU DE CARBURE DE TUNGSTENE

Publication

**EP 1268106 A4 20040421 (EN)**

Application

**EP 01908504 A 20010222**

Priority

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Abstract (en)

[origin: WO0162420A1] A process for producing a composite material of titanium carbide, titanium nitride, or tungsten carbide and metal or a metal alloy such as iron or steel or an alloy comprises blending together precursor materials including a titanium or tungsten source, a source of carbon, and a metal or a metal alloy and heating the precursor materials in a vacuum or an inert atmosphere or a nitrogen containing atmosphere to a temperature effective to form TiC, TiN or WC, to thereby form a material comprising particles of TiC, TiN or WC substantially encapsulated in a matrix of metal or metal alloy.

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IPC 8 full level

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CPC (source: EP US)

**C22C 1/053** (2013.01 - EP US); **B22F 2998/10** (2013.01 - EP US)

Citation (search report)

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- See references of WO 0162420A1

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