

Title (en)
METHOD FOR INCREASING COMPRESSION STRESS OR REDUCING INTERNAL TENSION STRESS OF A CVD, PCVD OR PVD LAYER AND CUTTING INSERT FOR MACHINING

Title (de)
VERFAHREN ZUR ERHÖHUNG DER DRUCKSPANNUNG ODER ZUR ERNIEDRIGUNG DER ZUGEIGENSPANNUNG EINER SCHICHT

Title (fr)
PROCEDE SERVANT A AUGMENTER LA RESISTANCE A LA COMPRESSION OU A LIMITER LA CONTRAINTE DE TRACTION INTERNE D'UNE COUCHE APPLIQUEE PAR CVD, PCVD OU PVD, ET PIECE COUPANTE D'USINAGE

Publication
EP 1311712 A2 20030521 (DE)

Application
EP 01991711 A 20011222

Priority

- DE 0104952 W 20011222
- DE 10115201 A 20010327
- DE 10123554 A 20010515

Abstract (en)
[origin: WO02077312A2] The invention relates to a method for increasing internal pressure stress or for reducing the internal tension stress of an outer or outermost hard material layer that is applied on a hard metal, cermet or ceramic substrate body by means of CVD, PCVD or PVD. After coating, the coated substrate body is subjected to dry shot blasting using a granular shot blasting agent, which, according to the invention, has a maximum diameter of 150 µm.

IPC 1-7
C23C 2/00

IPC 8 full level
C23C 14/58 (2006.01); **C23C 16/56** (2006.01)

CPC (source: EP US)
C23C 14/58 (2013.01 - EP US); **C23C 14/5886** (2013.01 - EP US); **C23C 16/56** (2013.01 - EP US); **Y10T 428/24975** (2015.01 - EP US); **Y10T 428/265** (2015.01 - EP US)

Citation (search report)
See references of WO 02077312A2

Cited by
EP1867755A2; EP2287359A1; WO2008031768A1; EP1696051A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 02077312 A2 20021003; WO 02077312 A3 20030103; EP 1311712 A2 20030521; US 2003104254 A1 20030605; US 6884496 B2 20050426

DOCDB simple family (application)
DE 0104952 W 20011222; EP 01991711 A 20011222; US 25799802 A 20021016