

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
31 December 2008 (31.12.2008)

PCT

(10) International Publication Number
WO 2009/002270 A1

(51) International Patent Classification:
B23B 27/14 (2006.01)

(74) Agent: **ELLA CHEONG SPRUSON & FERGUSON**
(SINGAPORE) PTE LTD; P.O. Box 1531, Robinson
Road Post Office, Singapore 903031 (SG).

(21) International Application Number:

PCT/SG2007/000179

(22) International Filing Date: 26 June 2007 (26.06.2007)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US):
NANOFILM TECHNOLOGIES INTERNATIONAL
PTE LTD [SG/SG]; Block 28, Ayer Rajah Crescent,
#02-02/03/04, Ayer Rajah Industrial Estate, Singapore
139959 (SG).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG,
ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL,
IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK,
LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX,
MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO,
RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL,
PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SHI, Xu** [SG/SG];
6 Angklong Lane, #17-03, Singapore 579980 (SG). **JIN,**
Xiao Zhe [CN/SG]; C/o Nanofilm Technologies Pte Ltd,
Block 28, Ayer Rajah Crescent, #02-02/03/04, Ayer Ra-
jah Industrial Estate, Singapore 139959 (SG). **CHEAH, Li**
Kang [MY/SG]; 50 Bukit Batok Street 31, #10-02, Singa-
pore 659442 (SG).

Published:

— with international search report

(54) Title: CUTTING TOOLS HAVING PLASMA DEPOSITED CARBON COATINGS

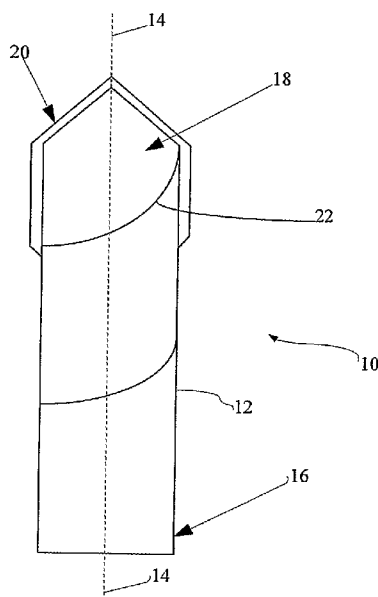


Figure 1

(57) Abstract: A cutting tool comprising a body, a cutting edge on at least one part of said body and a plasma deposited carbon coating layer provided on said cutting edge that is substantially free of macro-particles.

WO 2009/002270 A1