

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
14 May 2020 (14.05.2020)



(10) International Publication Number
WO 2020/094817 A1

(51) International Patent Classification:

C23C 28/00 (2006.01) C23C 16/02 (2006.01)
C23C 14/02 (2006.01) C23C 16/26 (2006.01)
C23C 14/06 (2006.01) C23C 16/40 (2006.01)
C23C 14/08 (2006.01) C23C 28/04 (2006.01)

(21) International Application Number:

PCT/EP2019/080620

(22) International Filing Date:

07 November 2019 (07.11.2019)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

18205138.3 08 November 2018 (08.11.2018) EP

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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,

DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP,
KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME,
MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ,
OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA,
SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ,
UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ,
TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
KM, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) Title: TEMPERATURE RESISTANT CARBON COATINGS

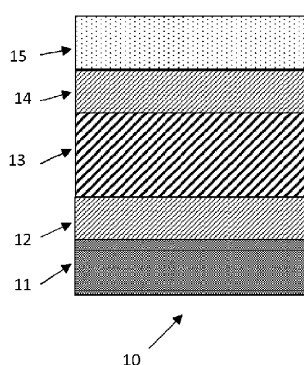


Fig. 1

(57) Abstract: The invention provides a substrate coated with a multi-layer coating, comprising in order: (a) the substrate; (b) a thermally insulating layer (e.g. Si₃N₄); (c) an interfacial layer (e.g. SiC); and (d) one or more layers comprising ta-C; wherein the interfacial layer promotes adhesion of the one or more layers comprising ta-C to the thermally insulating layer; and methods for producing such coatings.

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