



- (51) International Patent Classification:
C23C 24/04 (2006.01)
- (21) International Application Number:
PCT/US2013/026663
- (22) International Filing Date:
19 February 2013 (19.02.2013)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
13/414,828 9 March 2012 (09.03.2012) US
- (71) Applicant: UNITED TECHNOLOGIES CORPORATION [US/US]; One Financial Plaza, Hartford, Connecticut 06101 (US).
- (72) Inventors: MIRONETS, Sergey; 14 Elmore Road, Norfolk, Connecticut 06058 (US). NARDI, Aaron T.; 17 Concord Drive, East Granby, Connecticut 06026 (US).
- (74) Agents: SHULTZ, Catherine A. et al.; Kinney & Lange, P.A., The Kinney & Lange Building, 312 South Third Street, Minneapolis, Minnesota 55415 (US).

(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, 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, 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, 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, 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, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: LEADING EDGE PROTECTION AND METHOD OF MAKING

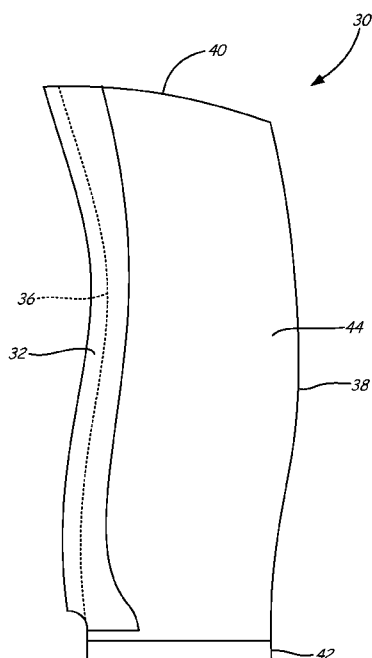


Fig. 2A

(57) Abstract: A method of forming a leading edge protection component includes depositing particles using a cold spray process on a mandrel to form a leading edge protection component; and removing the leading edge protection structure from the mandrel. The leading edge protection can be formed in one or more pieces and involve using one or more mandrels.

**Published:****(88) Date of publication of the international search report:**

6 February 2014

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*