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[Continued on next page]

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

(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.

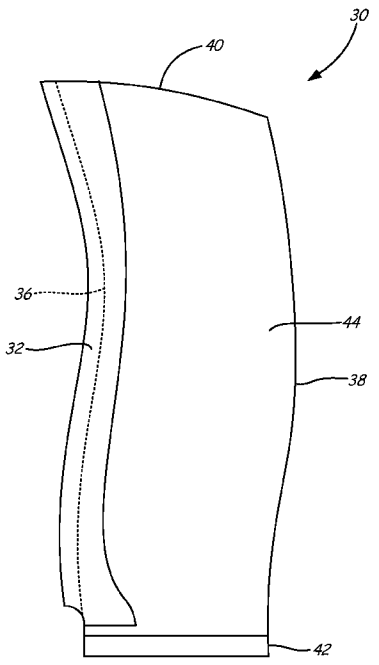


Fig. 2A

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

C23C 24/04(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
C23C 24/04; B05D 1/06; B23P 15/04; H02K 15/02; F01D 5/14; H02K 15/12

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean utility models and applications for utility models
Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKOMPASS(KIPO internal) & Keywords: sheath, protection, airfoil, blade, mandrel, and cold spray

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5908285 A (GRAFF, JOHN M.) 01 June 1999 See column 2, line 45-column 5, line 19 and figures 1, 3.	1-2,5-13,18-20
A		3-4,14-17
Y	US 2011-0129600 A1 (DAS et al.) 02 June 2011 See paragraphs [0007]-[0028] and figures 1-2.	1-2,5-13,18-20
Y	US 2011-0078896 A1 (CALLA et al.) 07 April 2011 See paragraphs [0027]-[0028].	5-6
Y	US 2011-0211967 A1 (DEAL et al.) 01 September 2011 See paragraphs [0058]-[0066] and figure 3B.	18
A	US 2011-0097213 A1 (PERETTI et al.) 28 April 2011 See paragraphs [0015]-[0021] and figures 1-2.	1-20

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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		US 8261444 B2	11/09/2012
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US 2011-0097213 A1	28/04/2011	None	