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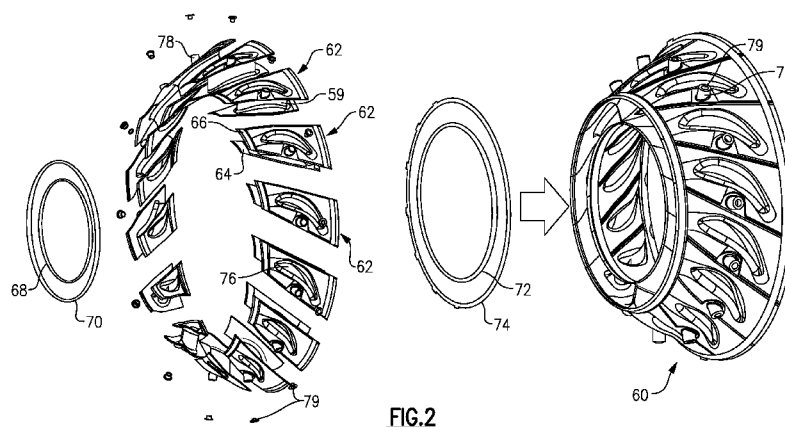
- (84) **Designated States** (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, 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, KM, ML, MR, NE, SN, TD, TG).

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(54) **Title:** GAS TURBINE ENGINE VANE RING ARRANGEMENT



(57) **Abstract:** A vane pack for a gas turbine engine includes an annular arrangement of vanes. A ring is secured around the vanes and extends proud of an axial end of the vanes.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2014/043110**A. CLASSIFICATION OF SUBJECT MATTER****F01D 9/04(2006.01)i, F01D 11/00(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)

F01D 9/04; F01D 25/00; F01D 11/00; F01D 1/02; F01D 9/00

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: gas turbine, vane pack, annular arrangement, ring, extending, proud, platform, and seal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2009-0208332 A1 (WEINSTEIN et al.) 20 August 2009 See paragraphs [0014]–[0018], [0024]–[0025]; and figures 1–7.	1–11, 13, 16–20
Y		12, 14–15
Y	US 2010-0135786 A1 (MANTEIGA et al.) 03 June 2010 See paragraphs [0016]–[0020], [0024], [0032]; and figures 1–4.	12, 14–15
A	US 2006-0233642 A1 (WUNDERLICH et al.) 19 October 2006 See paragraphs [0018]–[0020]; and figures 1–2.	1–20
A	US 6,077,035 A (WALTERS et al.) 20 June 2000 See column 5, line 52 – column 6, line 53; and figures 1, 5.	1–20
A	US 6,095,750 A (ROSS et al.) 01 August 2000 See column 2, line 58 – column 4, line 2; and figures 2–3.	1–20

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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Date of the actual completion of the international search

06 February 2015 (06.02.2015)

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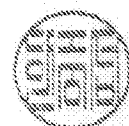

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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