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[Continued on next page]

(54) Title: TURBINE ENGINE VANE ARRANGEMENT HAVING A PLURALITY OF INTERCONNECTED VANE ARRANGEMENT SEGMENTS

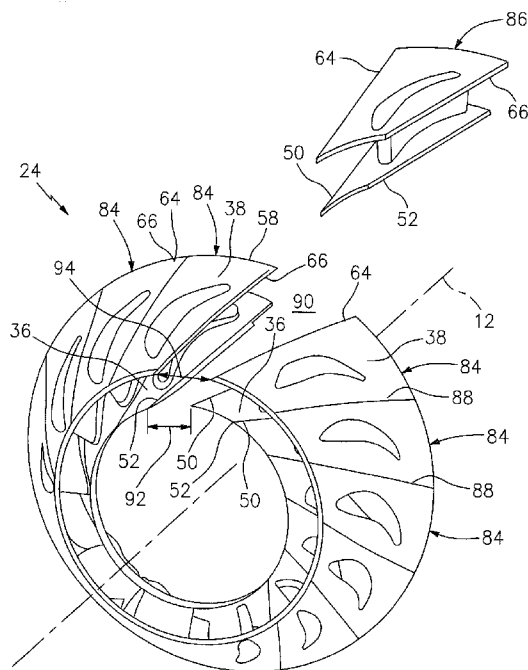


FIG. 6

(57) Abstract: A turbine engine vane arrangement and a method for manufacturing a turbine engine vane arrangement are provided. The vane arrangement includes a plurality of vane arrangement segments arranged circumferentially around an axial centerline. Each of the vane arrangement segments includes an airfoil that extends radially between a first platform segment and a second platform segment. The first platform segment extends circumferentially between a first mate face and a second mate face. The first mate face of a first of the vane arrangement segments is bonded to the second mate face of a second of the vane arrangement segments.



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International application No.

PCT/US 13/20832

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - F04D 29/34 (2013.01)

USPC - 415/209.3

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)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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USPC - 415/191, 208.1; 416/189, 193R, 223R; 29/889, 889.2, 889.21, 889.7, 889.71 (keyword limited; terms below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PubWEST(USPT,PGPB,USOC, EPAB,JPAB); PatBase; Google Scholar; Google Patents; Google Web Search terms used: turbine, vane, segments, sections, bond, join, attach, ring, band, platform, brazed, widths, lengths, different, various, alternative, engine, platform, manufacture, sequential, keystone, unequal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,174,715 A (MARTIN) 29 December 1992 (29.12.1992), entire document, especially Fig 1, 11, 12; col 1, ln 25-34, ln 54-57, ln 65-68; col 5, ln 4-18; col 10, ln 49-54; col 11, ln 13-42	1-7, 9, 11-13, 19, 21
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Y		8, 10, 14-18, 20
Y	US 2010/0162725 A1 (ZEATON et al.) 01 July 2010 (01.07.2010), para [0026]	8, 14-18
Y	US 6,514,041 B1 (MATHENY et al.) 04 February 2003 (04.02.2003), Fig 2a; col 6, ln 40-54	10, 20
A	US 2008/0298973 A1 (MARINI) 04 December 2008 (04.12.2008), entire document	1-21
A	US 2009/0185899 A1 (BOUCHARD et al.) 23 July 2009 (23.07.2009), entire document	1-21

 Further documents are listed in the continuation of Box C.

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"A" document defining the general state of the art which is not considered to be of particular relevance

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"O" document referring to an oral disclosure, use, exhibition or other means

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