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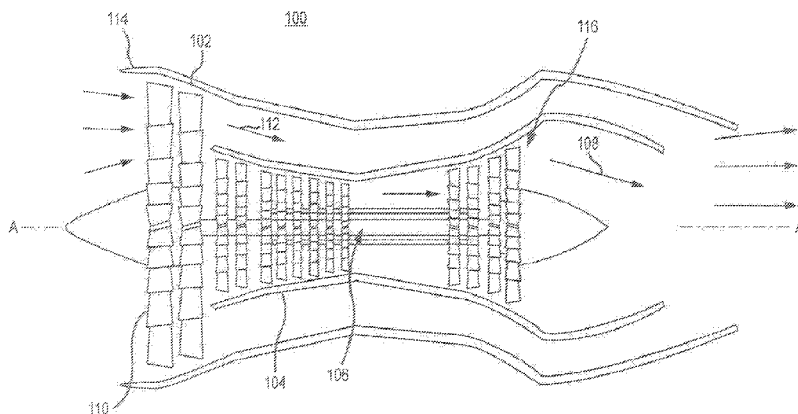


FIG. 1

(57) Abstract: An aircraft jet propulsion system is disclosed. The aircraft jet propulsion system may comprise a thermoelectric generator array ("TEG" array) coupled to a portion of the aircraft jet propulsion system, wherein the TEG array converts heat energy to electrical energy, and supplies power to the aircraft jet propulsion system, wherein the electrical energy is supplied to a power supply. The aircraft jet propulsion system may comprise an alternator that generates less energy than is required to power the aircraft jet propulsion system. The TEG array may supplement the energy generated by the alternator. The energy generated by the TEG array and the energy generated by the alternator may be sufficient to power the aircraft jet propulsion system and/or the electrical energy generated by the TEG array may be sufficient to power to aircraft jet propulsion system.



## INTERNATIONAL SEARCH REPORT

International application no.

PCT/US 14/53190

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H01L 35/30 (2015.01)

CPC - H01L 35/32

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)

IPC(8): H01L 35/30 (2015.01)

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

IPC(8): H01L 35/02, H01L 35/02, F02K 1/82, F02K 1/00 (2015.01) CPC: H01L 35/325, H01L 35/30, F02K 1/82, F02K 1/822, F02C 6/18, Y02T 50/53, B64D 41/00 USPC: 136/205, 244/58

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

PatBase; ProQuest Dialog; Google Patents; Google Web; Google Scholar

Search Terms: TEG, thermoelectric generator%, thermo-electric generator%, thermal-electric generator%, heat, thermal, blanket%, insulation%, turbine, turbo%, prop, shaft, jet, fan, nacelle%, nozzle%, between, under, cover%, shield%, protect%, air, inlet%, intake%

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X		1, 5-9
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Y	US 2009/0159110 A1 (Kwok et al.). 25 June 2009 (25.06.2009). Figs. 1-2; para [0036], [0042], [0056], [0061], [0063], [0067].	2-4, 10-12
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A		13
X	US 2007/0018038 A1 (Jarmon et al.). 25 January 2007 (25.01.2007). Figs. 1, 5-9; para [0018], [0020]-[0021], [0023], [0025], [0027].	1, 14-19
Y	US 2011/0283712 A1 (Brillet). 24 November 2011 (24.11.2011). Para [0002].	2-4
Y	US 2012/0308369 A1 (Maheshwari et al.). 06 December 2012 (06.12.2012). Figs. 1-3; para [0016].	10-11
Y	DE 102007036930 A1 (Sharp). 09 April 2009 (09.04.2009). Fig. 1; p 6, ln 6-10 of Espacenet translation, obtained onlin 16 April 2015 (16.04.2015). Translation	12
---	URL=<http://translationportal.epo.org/emtp/translate?ACTION=description-retrieval&COUNTRY=DE&ENGINE=google&FORMAT=docdb&KIND=A1&LOCALE=en_EP&NUMBER=102007036930&OPS=ops.epo.org/3.1&SRCLANG=de&TRGLANG=en&PDF=true>	-----
A		13
A	US 6,443,395 B1 (Porte et al.). 03 September 2002 (03.09.2002). Fig. 1; col 3, ln 24-32.	13

 Further documents are listed in the continuation of Box C.

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"&amp;" document member of the same patent family

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