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- (81) **Designated States** (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM,

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BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM,
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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,
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- (54) Title:** GAS TURBINE ENGINE WITH GEARED TURBOFAN AND OIL THERMAL MANAGEMENT SYSTEM WITH UNIQUE HEAT EXCHANGER STRUCTURE

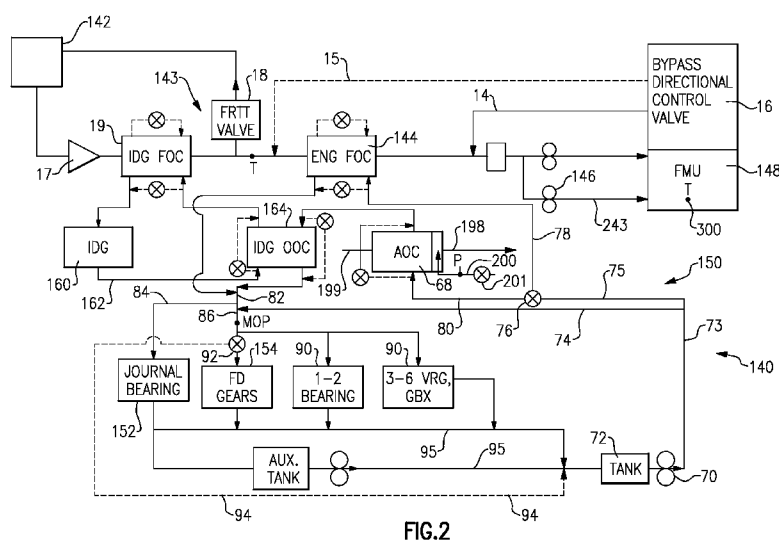


FIG.2

- (57) Abstract:** An oil supply system for a gas turbine engine has a lubricant pump delivering lubricant to an outlet line. The outlet line is split into at least a hot line and into a cool line, with the hot line directed primarily to locations associated with an engine that are not intended to receive cooler lubricant, and the cool line directed through one or more heat exchangers at which lubricant is cooled. The cool line then is routed to a fan drive gear system of an associated gas turbine engine. A method and apparatus are disclosed. The heat exchangers include at least an air/oil cooler wherein air is pulled across the air/oil cooler to cool oil. The air/oil cooler is provided with an ejector tapping compressed air from a compressor section to increase airflow across the air/oil cooler.

INTERNATIONAL SEARCH REPORT		International application No. PCT/US13/22360															
A. CLASSIFICATION OF SUBJECT MATTER IPC: F02C 7/06 (2006.01) USPC: 60/772,39 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) U.S. : 60/772,39 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) LUBRICANT;; EJECTOR; EDUCATOR; BYPASS; LOW PRESSURE TURBINE; BEARING; LUBE																	
C. DOCUMENTS CONSIDERED TO BE RELEVANT <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Category *</th> <th style="width: 70%;">Citation of document, with indication, where appropriate, of the relevant passages</th> <th style="width: 20%;">Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Y</td> <td>US 7,908,840 B2 (SCHWARZ ET AL.) 22 MARCH 2011, SEE ENTIRE DOCUMENT.</td> <td style="text-align: center;">1-20</td> </tr> <tr> <td style="text-align: center;">Y</td> <td>US 6,282,881 B1 (BEUTIN ET AL.) 04 SEPTEMBER 2001, SEE ENTIRE DOCUMENT.</td> <td style="text-align: center;">1-20</td> </tr> <tr> <td style="text-align: center;">Y</td> <td>US 4,041,697 A (COFFINBERRY ET AL.) 16 AUGUST 1977, SEE ENTIRE DOCUMENT.</td> <td style="text-align: center;">4-7, 14-17</td> </tr> <tr> <td style="text-align: center;">Y</td> <td>US 7,163,086 B2 (CARE ET AL.) 16 JANUARY 2007, SEE ENTIRE DOCUMENT.</td> <td style="text-align: center;">10-13, 18, 19</td> </tr> </tbody> </table>			Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	Y	US 7,908,840 B2 (SCHWARZ ET AL.) 22 MARCH 2011, SEE ENTIRE DOCUMENT.	1-20	Y	US 6,282,881 B1 (BEUTIN ET AL.) 04 SEPTEMBER 2001, SEE ENTIRE DOCUMENT.	1-20	Y	US 4,041,697 A (COFFINBERRY ET AL.) 16 AUGUST 1977, SEE ENTIRE DOCUMENT.	4-7, 14-17	Y	US 7,163,086 B2 (CARE ET AL.) 16 JANUARY 2007, SEE ENTIRE DOCUMENT.	10-13, 18, 19
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Y	US 7,163,086 B2 (CARE ET AL.) 16 JANUARY 2007, SEE ENTIRE DOCUMENT.	10-13, 18, 19															
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Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201		Authorized officer ANDRE ROBINSON Telephone No. (571) 272-5005															