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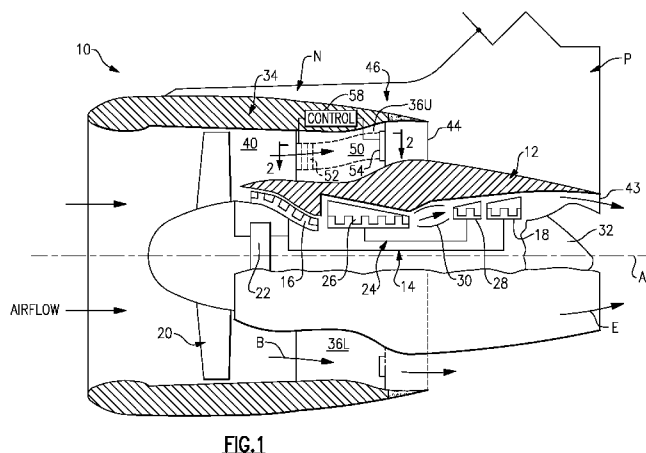
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(54) Title: GAS TURBINE ENGINE BIFURCATION LOCATED FAN VARIABLE AREA NOZZLE



(57) Abstract: A gas turbine engine includes a core engine defined about an axis, a gear system driven by the core engine, a fan, and a variable area flow system. The gear system defines a gear reduction ratio of greater than or equal to about 2.3. The fan is driven by the gear system about the axis to generate a bypass flow. The variable area flow system operates to effect the bypass flow.

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - B64D 33/04; F02K 1/30, 1/72 (2013.01)

USPC - 415/227

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) Classification(s): B64D 33/04; F02K 1/30, 1/72 (2013.01)

USPC Classification(s): 415/227

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)

MicroPatent (US Granted, US Applications, EP-A, EP-B, WO, JP, DE-G, DE-A, DE-T, DE-U, GB-A, FR-A); DialogPro (Derwent, INSPEC, NTIS, PASCAL, Current Contents Search, Dissertation Abstracts Online, Inside Conferences); Google.com; Google.com/Scholar; gas, turbine, engine, generator, bypass, low, pressure, gear, drive

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2009/0053058 A1 (KOHLENBERG, GA et al.) February 26, 2009; paragraphs [0024], [0027], [0028]; claim 8	1-16
A	US 7,997,082 B2 (BEARDSLEY, PK) August 16, 2011; entire document	1-16
A	US 2011/0173990 A1 (THIES, R) July 21, 2011; entire document	1-16

 Further documents are listed in the continuation of Box C.


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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

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