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- (71) **Applicant (for all designated States except US):** **ROLLS-ROYCE NORTH AMERICAN TECHNOLOGIES** [US/US]; 2059 S. Tibbs Avenue, Mail Drop X12, Indianapolis, IN 46241 (US).
- (72) **Inventor; and**
- (75) **Inventor/Applicant (for US only):** **GAGNE, Steven** [US/US]; 6476 Apple Cider Way, Avon, IN 46123 (US).
- (74) **Agents:** **STEPHENSON, Mark T.** et al.; Krieg Devault LLP, One Indiana Square, Suite 2800, Indianapolis, IN 46204 (US).
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(54) **Title:** AIRBORNE COOLING SYSTEM

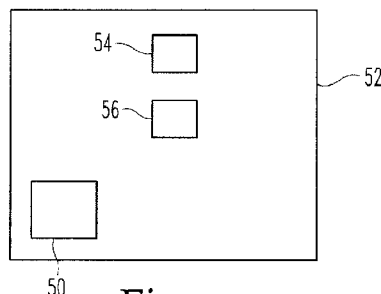


Fig. 1

(57) **Abstract:** An aircraft having a cooling system is disclosed. The cooling system can be used to cool a heat emitting component. In one form the cooling system is a refrigerant system and includes a relatively high temperature device such as, but not limited to, a condenser. The relatively high temperature component is placed in thermal communication with a passing air flow. In one embodiment the aircraft includes a pod in which at least a portion of the cooling system is disposed. For example, a condenser of a vapor cycle refrigerant system can be located in the pod and in thermal communication with the air flow. The cooling system can also include a device capable of delivering a cooling fluid into the air flow and/or to the relatively high temperature component. The cooling fluid can be evaporated to provide additional cooling.

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INTERNATIONAL SEARCH REPORT

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| <p>A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - F02C 7/14 (2012.01) USPC - 62/238.6 According to International Patent Classification (IPC) or to both national classification and IPC</p> | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|---|---|--|---|--|--|---|--|---|---|--------|---|--|----|---|---|----|
| <p>B. FIELDS SEARCHED</p> <p>Minimum documentation searched (classification system followed by classification symbols) IPC(8) - F02C 3/00, 7/14 (2012.01) USPC - 60/38.02, 39.07, 39.08, 39.83, 226.1, 266, 267, 730, 736; 62/238.6</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) MicroPatent</p> | | | | | | | | | | | | | | | | | | | | |
| <p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1"> <thead> <tr> <th>Category*</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X --- Y</td> <td>US 6,000,210 A (NEGULESCU) 14 December 1999 (14.12.1999) entire document</td> <td>1-4, 6, 17 ----- 5, 7, 11-14, 18</td> </tr> <tr> <td>X --- Y</td> <td>US 6,182,435 B1 (NIGGEMANN et al) 06 February 2001 (06.02.2001) entire document</td> <td>8-10, 15, 19, 21, 22 ----- 5, 7, 11-14, 16, 20, 23</td> </tr> <tr> <td>Y</td> <td>US 5,802,860 A (BARROWS) 08 September 1998 (08.09.1998) entire document</td> <td>16, 23</td> </tr> <tr> <td>Y</td> <td>US 7,484,354 B2 (STRETTON) 03 February 2009 (03.02.2009) entire document</td> <td>18</td> </tr> <tr> <td>Y</td> <td>US 5,025,634 A (DRESSLER) 25 June 1991 (25.06.1991) entire document</td> <td>20</td> </tr> </tbody> </table> | | | Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. | X --- Y | US 6,000,210 A (NEGULESCU) 14 December 1999 (14.12.1999) entire document | 1-4, 6, 17 ----- 5, 7, 11-14, 18 | X --- Y | US 6,182,435 B1 (NIGGEMANN et al) 06 February 2001 (06.02.2001) entire document | 8-10, 15, 19, 21, 22 ----- 5, 7, 11-14, 16, 20, 23 | Y | US 5,802,860 A (BARROWS) 08 September 1998 (08.09.1998) entire document | 16, 23 | Y | US 7,484,354 B2 (STRETTON) 03 February 2009 (03.02.2009) entire document | 18 | Y | US 5,025,634 A (DRESSLER) 25 June 1991 (25.06.1991) entire document | 20 |
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