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(54) **PROCESS FOR TESTING A COMPRESSOR OR A COMBUSTOR OF A GAS TURBINE ENGINE USING A LARGE COMPRESSED AIR STORAGE RESERVOIR**

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(52) **U.S. Cl.**

CPC ***G01M 15/14*** (2013.01); ***F02C 6/16*** (2013.01); ***G01M 9/02*** (2013.01); ***G01M 17/007*** (2013.01); *F05D 2260/83* (2013.01); *F23R 2900/00019* (2013.01)

(58) **Field of Classification Search**

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See application file for complete search history.

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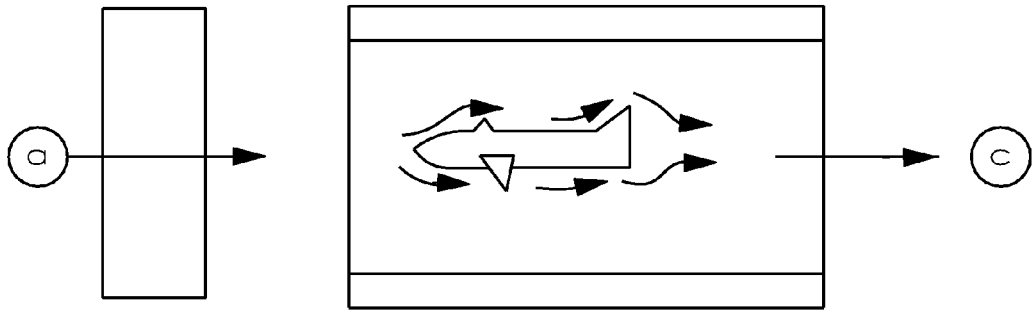
(57) **ABSTRACT**

A process for testing a combustor or a compressor of a gas turbine engine, where a large volume of compressed air is stored in a large reservoir of at least 10,000 m3 such as an underground storage cavern, compressed air from the storage reservoir is passed through an air turbine to drive a compressor to produce high pressure and temperature compressed air, and where the compressed air can be discharged into a combustor and burned with a fuel for testing of the combustor under simulated conditions of a real gas turbine engine.

3 Claims, 21 Drawing Sheets