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**Petty**

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(54) **RETRACTABLE EXHAUST LINER SEGMENT FOR GAS TURBINE ENGINES**

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(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 965 days.

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(52) **U.S. Cl.**  
 CPC ..... **F01D 25/30** (2013.01); **F02K 1/822** (2013.01); **Y02T 50/675** (2013.01); **Y10T 29/49229** (2015.01)

(58) **Field of Classification Search**  
 USPC ..... 60/752, 770, 796, 797, 753-766, 772, 60/779; 244/54  
 See application file for complete search history.

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(57) **ABSTRACT**

A retractable exhaust liner segment according to an exemplary aspect of the present disclosure includes, among other things, a first retractable exhaust liner segment which defines a first flange and a second retractable exhaust liner segment which defines a second flange. A fastener assembly received by the first flange and the second flange is configured to mount the first retractable exhaust liner segment and the second retractable exhaust liner segment. A forward end of the retractable exhaust liner segment overlaps an aft end of an engine structure and an aft end of the retractable exhaust liner segment overlaps a forward end of an exhaust liner in an assembled position. A gap exists between the retractable exhaust liner segment and one of the engine structure and the exhaust liner as the retractable exhaust liner segment is moved along an axis in one direction to a disassembled position and the gap closes as the retractable exhaust liner segment is moved along the axis in other direction to the assembled position. A method of maintaining a gas turbine engine is also disclosed.

**21 Claims, 7 Drawing Sheets**

