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(71) Applicant: **RTX Corporation**
Farmington, CT 06032 (US)

(72) Inventors:
• **DAI, Zhongtao**
West Hartford, 06107 (US)
• **KIM, Wookyung**
Glastonbury, 06033 (US)
• **KRAMER, Stephen K.**
Cromwell, 06416 (US)
• **DILLARD, Gary J.**
Gainesville, 32608 (US)
• **SEN, Baris A.**
S. Glastonbury, 06073 (US)

(74) Representative: **Dehns**
10 Old Bailey
London EC4M 7NG (GB)

(54) GAS TURBINE ENGINE FUEL INJECTOR ASSEMBLY WITH AIR PURGE

(57) An assembly is provided for a gas turbine engine (20). This assembly includes an air swirler structure (66), an injector nozzle (114) and a nozzle guide (70). The air swirler structure (66) includes an inner bore (108) and an air swirler passage (102). The inner bore (108) extends axially along an axis (72) through the air swirler structure (66). The air swirler passage (102) extends radially into the air swirler structure (66) to the inner bore (108). The injector nozzle (114) projects axially into the inner bore (108). The nozzle guide (70) couples the injector nozzle (114) to the air swirler structure (66). The nozzle guide (70) includes a guide foot (146) and an air purge passage (144) radially out-board of the guide foot (146). The guide foot (146) is configured to radially engage the injector nozzle (114). The air purge passage (144) extends across the nozzle guide (70) and axially to the inner bore (108).

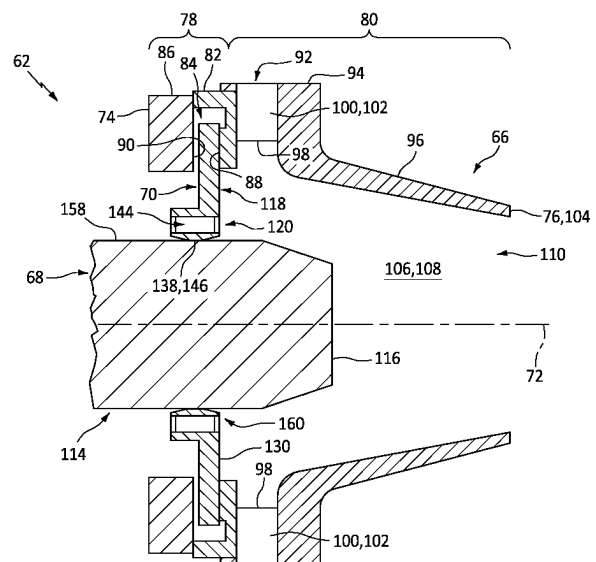


FIG. 3

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EUROPEAN SEARCH REPORT

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The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		9 September 2026	Mootz, Frank
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

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