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[54] **VARIABLE AREA FAN EXHAUST NOZZLE HAVING MECHANICALLY SEPARATE SLEEVE AND THRUST REVERSER ACTUATION SYSTEMS**

[75] Inventors: **Paul W. Duesler**, Manchester; **Constantino V. Loffredo**, Newington, both of Conn.; **Harold T. Prosser, Jr.**, Palm Beach Gardens, Fla.; **Christopher W. Jones**, Reston, Va.

[73] Assignee: **United Technologies Corporation**, Hartford, Conn.

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Related U.S. Application Data

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[51] **Int. Cl.**[6] **F02C 3/02**; F02K 1/09; F02K 1/70

[52] **U.S. Cl.** ..... **60/226.1**; 60/226.2; 60/230; 244/110 B; 239/265.31; 239/265.27

[58] **Field of Search** ..... 60/226.2, 226.1, 60/230, 271; 244/110 B; 239/265.19, 265.23, 265.27, 265.29, 265.31

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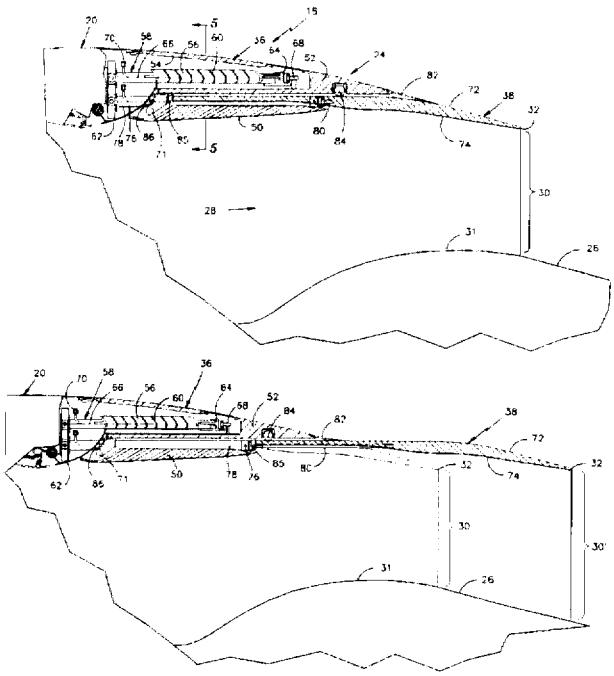
Primary Examiner—Timothy Thorpe
Assistant Examiner—Ted Kim
Attorney, Agent, or Firm—Kenneth C. Baran

[57] **ABSTRACT**

A gas turbine engine (**10**) includes a translating sleeve (**38**) disposed within a downstream portion of an outer nacelle (**20**). A variable area fan exhaust nozzle (**30**) is defined between the trailing edge (**32**) of the translating sleeve (**38**) and a conical core cowl (**26**) disposed radially inwardly of the outer nacelle (**20**) and spaced apart therefrom. The translating sleeve (**38**) translates downstream to cooperate with the decreasing diameter of the core cowl (**26**) to increase the area of the fan exhaust nozzle (**30**).

7 Claims, 6 Drawing Sheets