

(12) **United States Patent**  
**Palinkas et al.**

(10) **Patent No.:** **US 6,716,062 B1**  
(45) **Date of Patent:** **Apr. 6, 2004**

- (54) **COAXIAL CABLE F CONNECTOR WITH IMPROVED RFI SEALING**
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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 0 days.

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- (21) Appl. No.: **10/277,756**
- (22) Filed: **Oct. 21, 2002**
- (51) Int. Cl.<sup>7</sup> ..... **H01R 9/05**
- (52) U.S. Cl. .... **439/578; 439/320; 439/700**
- (58) Field of Search ..... 439/578, 320, 439/583-585, 322, 323, 700, 824, 607, 610

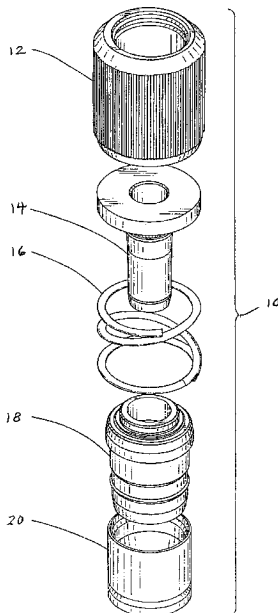
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(57) **ABSTRACT**

An F-type connector for mounting to a prepared terminal end of a coaxial cable for threaded engagement of a nut on the connector to a threaded shaft at a port on video equipment to which the coaxial cable is to be electrically connected. In the connector of the present invention, the nut is mounted for limited axial movement with respect to the post, body and compression ring. A coil spring biases the nut toward a rest position with respect to the other elements wherein not more than three revolutions of the nut into engagement with the shaft are necessary in order to bring the post of the connector into contact with the shaft on the equipment, providing a satisfactory coupling. Upon further revolution of the nut, the post and shaft remain in contact as the nut moves axially away from the rest position with respect to the other elements.

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**33 Claims, 8 Drawing Sheets**



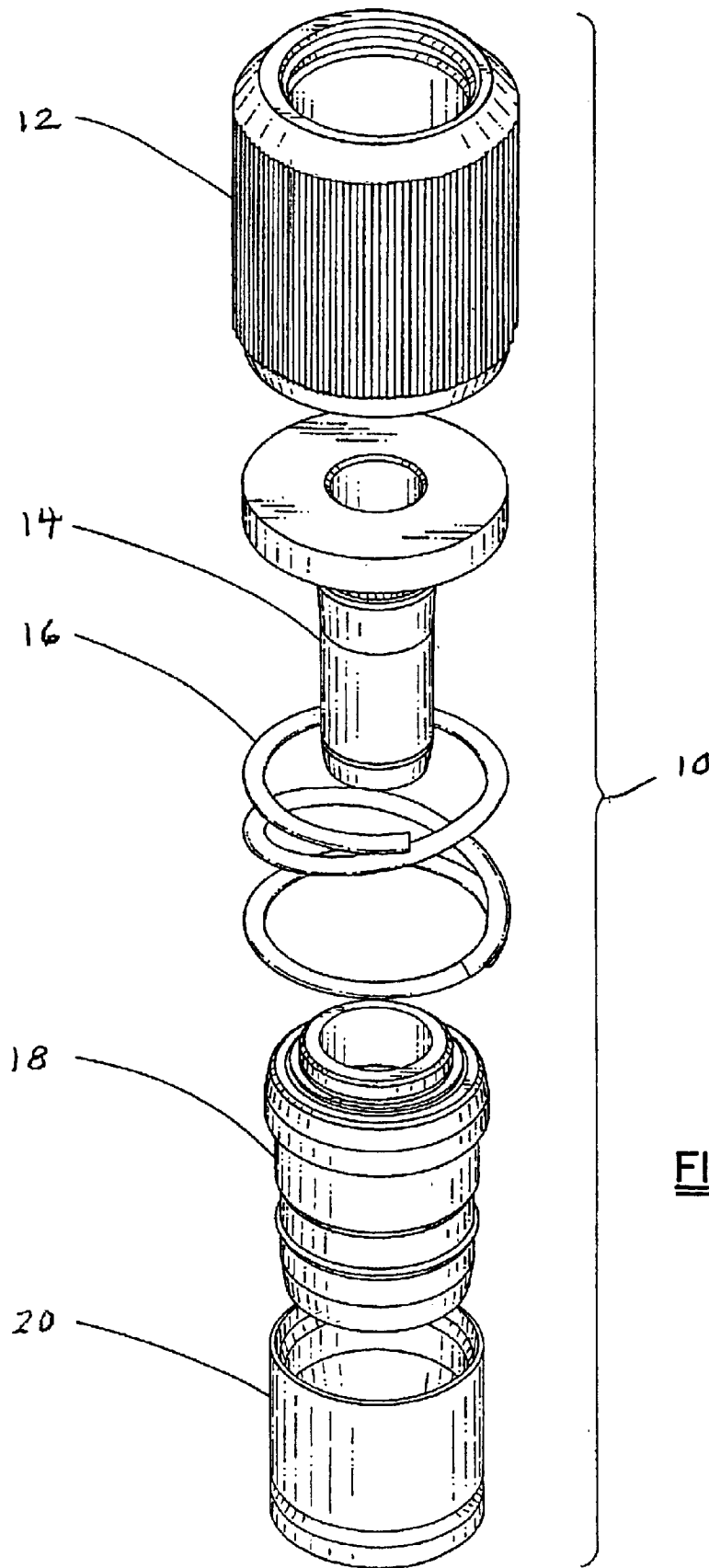
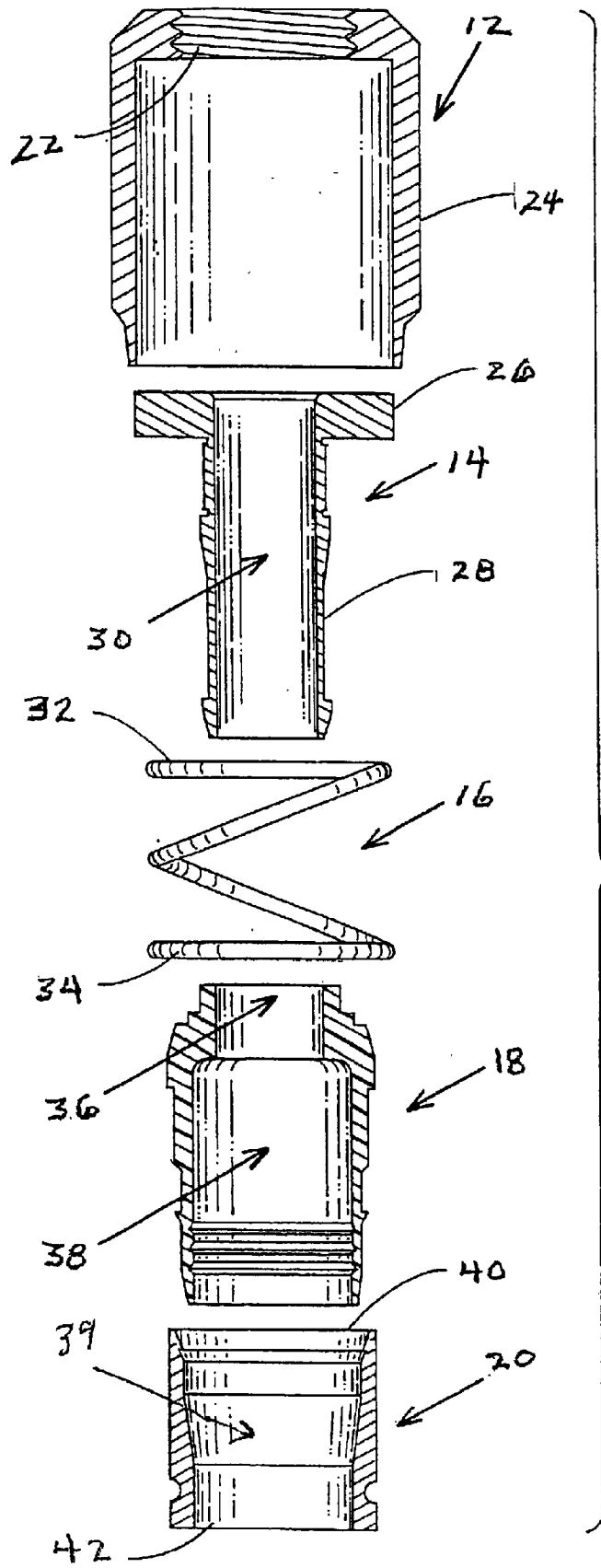


FIG. 1

FIG. 2



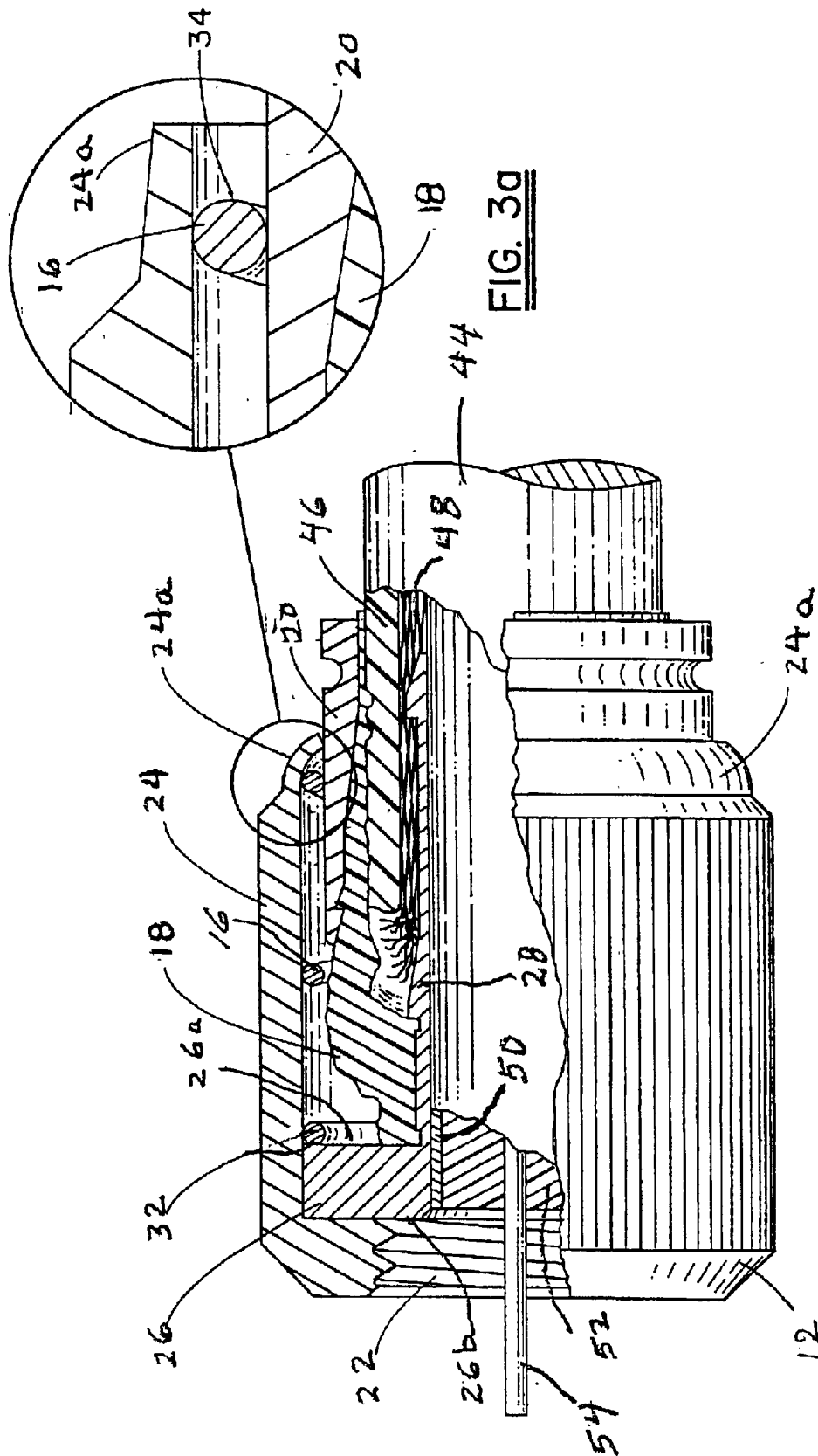


FIG. 3a

FIG. 3

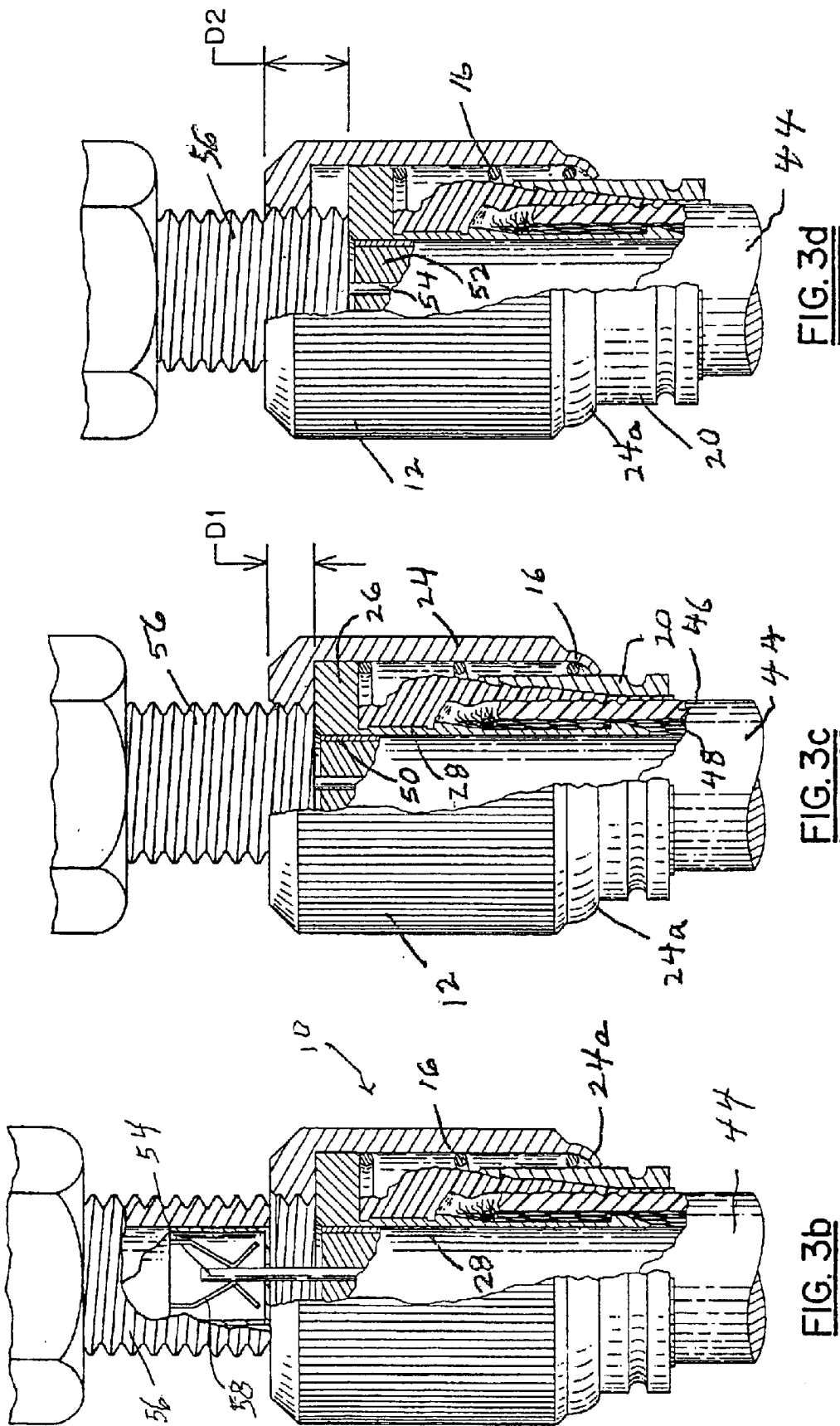


FIG. 3d

FIG. 3c

FIG. 3b

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