

(12) **United States Patent**  
**Youtsey**

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- (54) **INTERNALLY LOCKING COAXIAL CONNECTOR**
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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.
- (21) Appl. No.: **10/309,216**
- (22) Filed: **Dec. 4, 2002**
- (51) **Int. Cl.<sup>7</sup>** ..... **H01R 13/62**
- (52) **U.S. Cl.** ..... **439/322; 439/581**
- (58) **Field of Search** ..... 439/312, 313, 439/321, 320, 322, 319, 581; 285/33, 900, 921

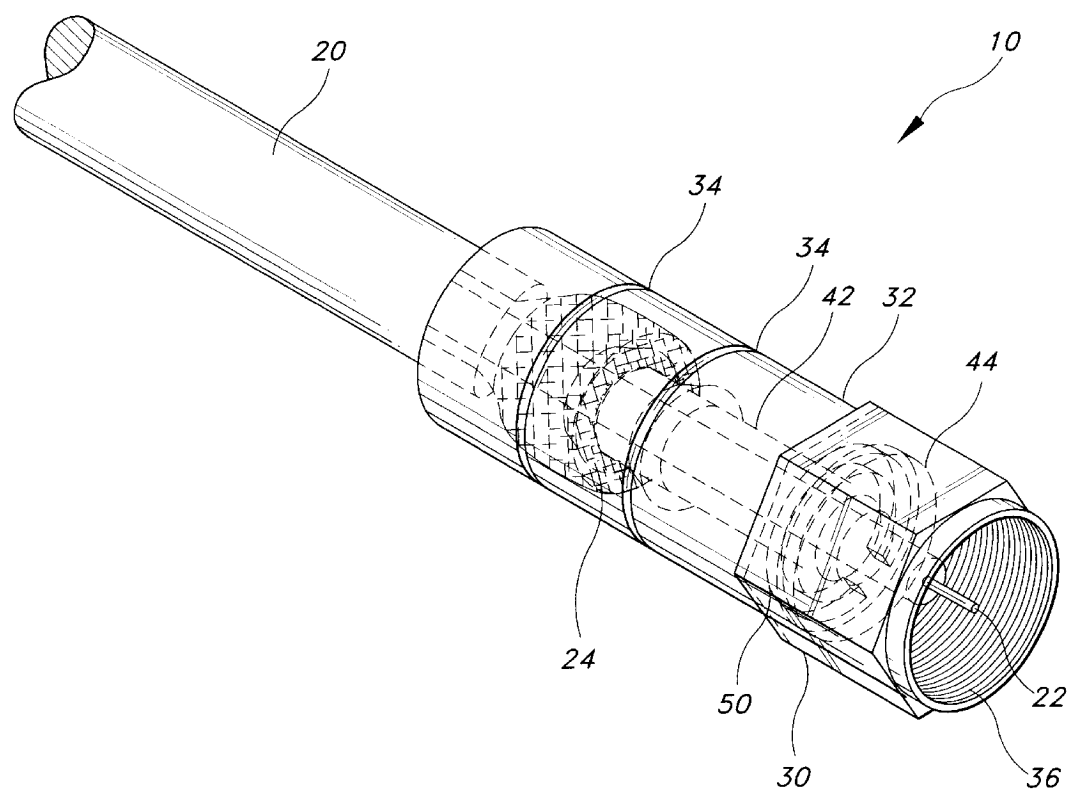
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(57) **ABSTRACT**  
The internally locking coaxial connector has a conductive insert disposed in an outer body. The insert has a front flange and a lock washer placed between the front flange and an inwardly extending annular flange at the rear of a coupling nut slidably on the outer body. When a male connector is mated with the female connector, the lock washer applies a continuous tension between the male and female connectors to prevent their separation when exposed to vibration or thermal cycling.

**5 Claims, 4 Drawing Sheets**



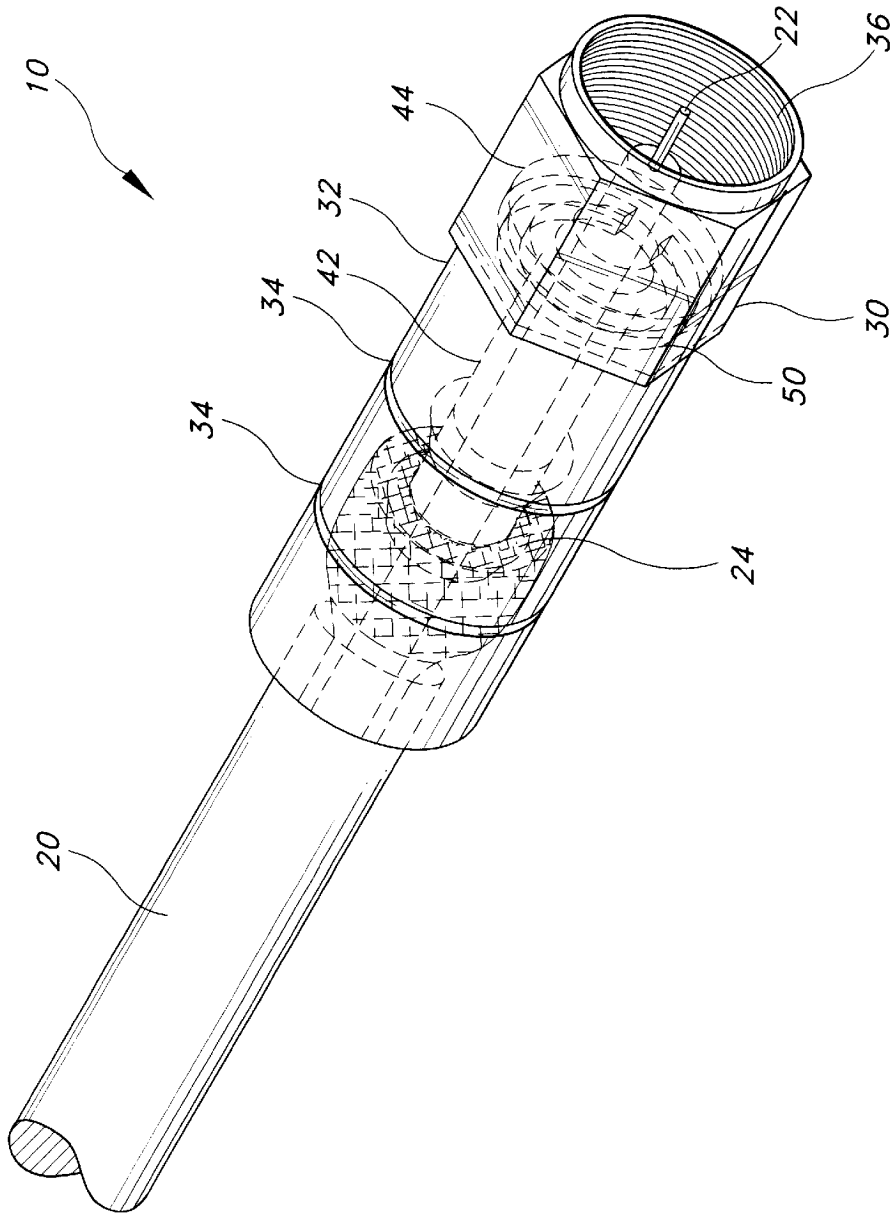


Fig. 1

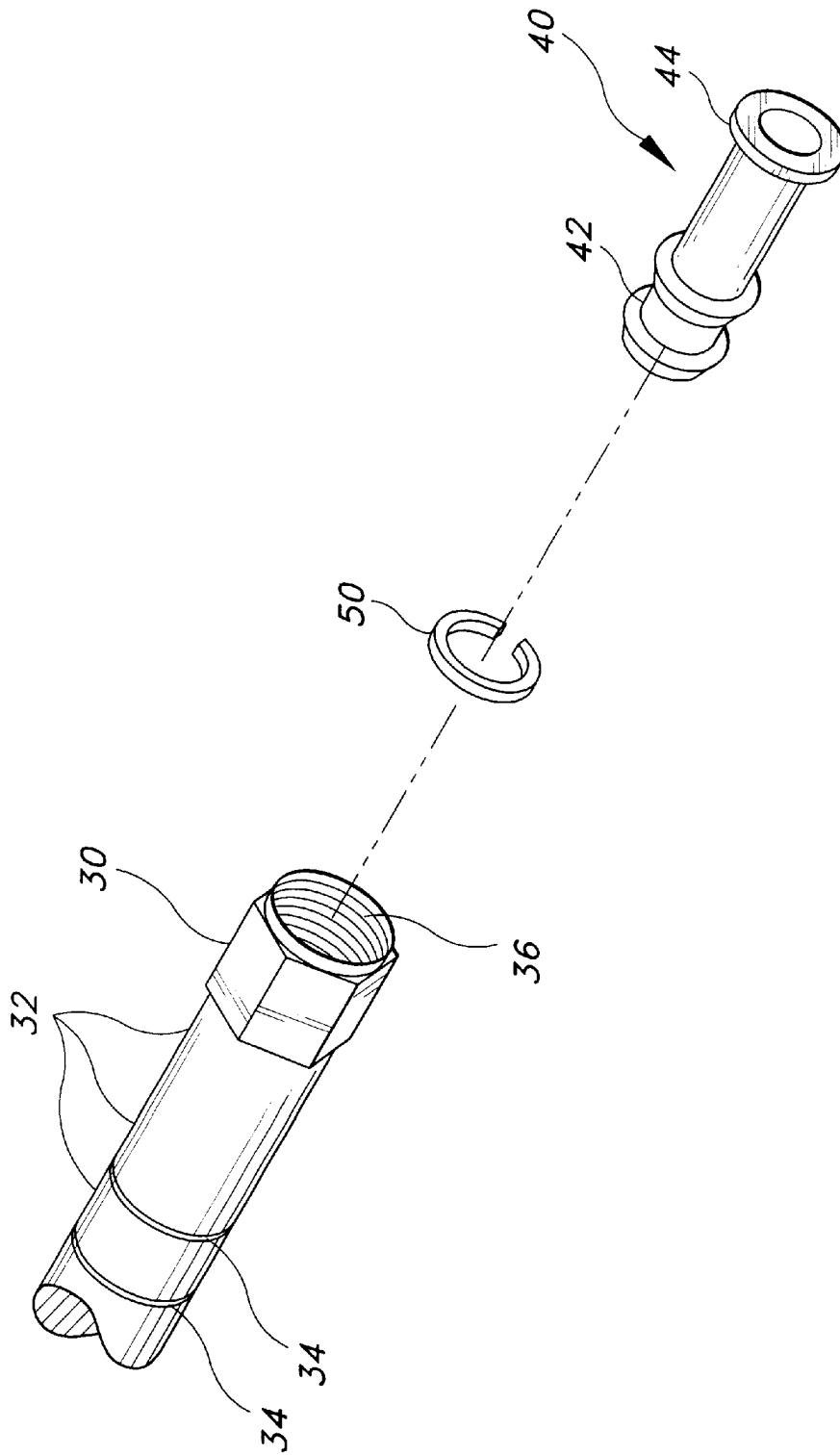


Fig. 2

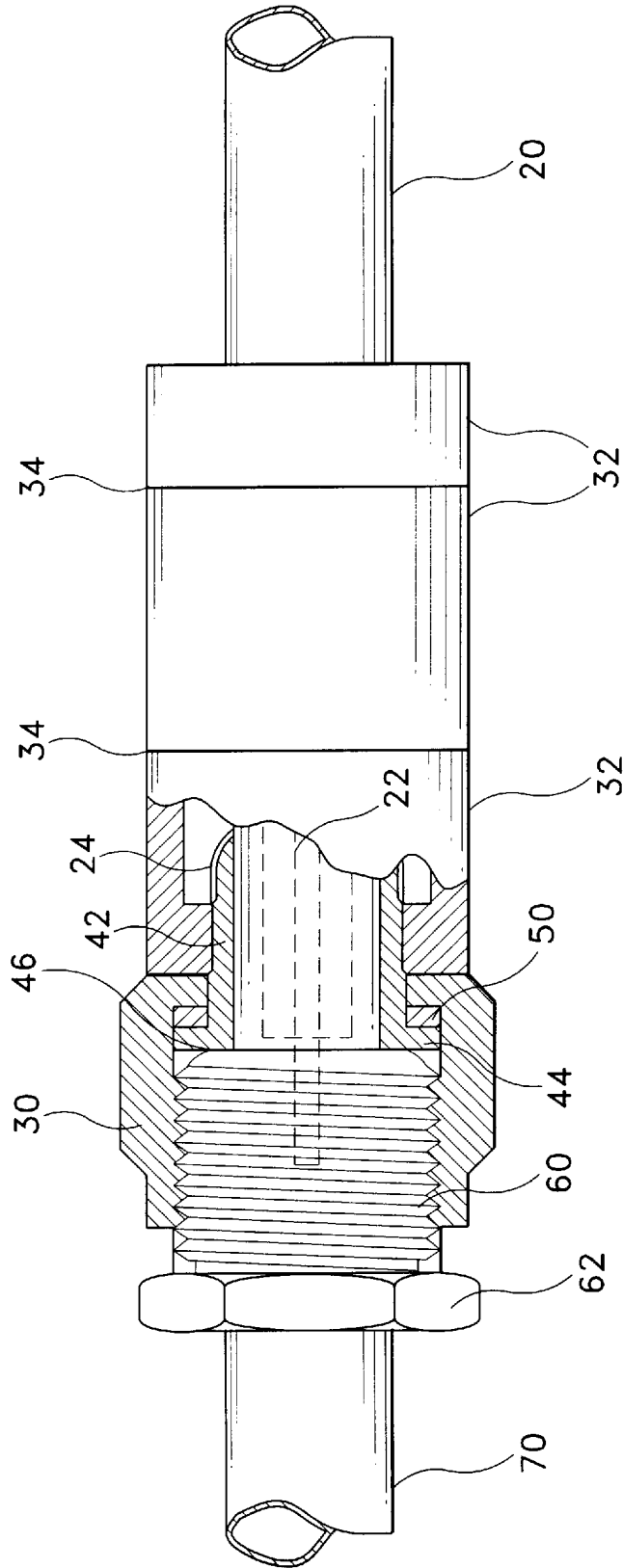
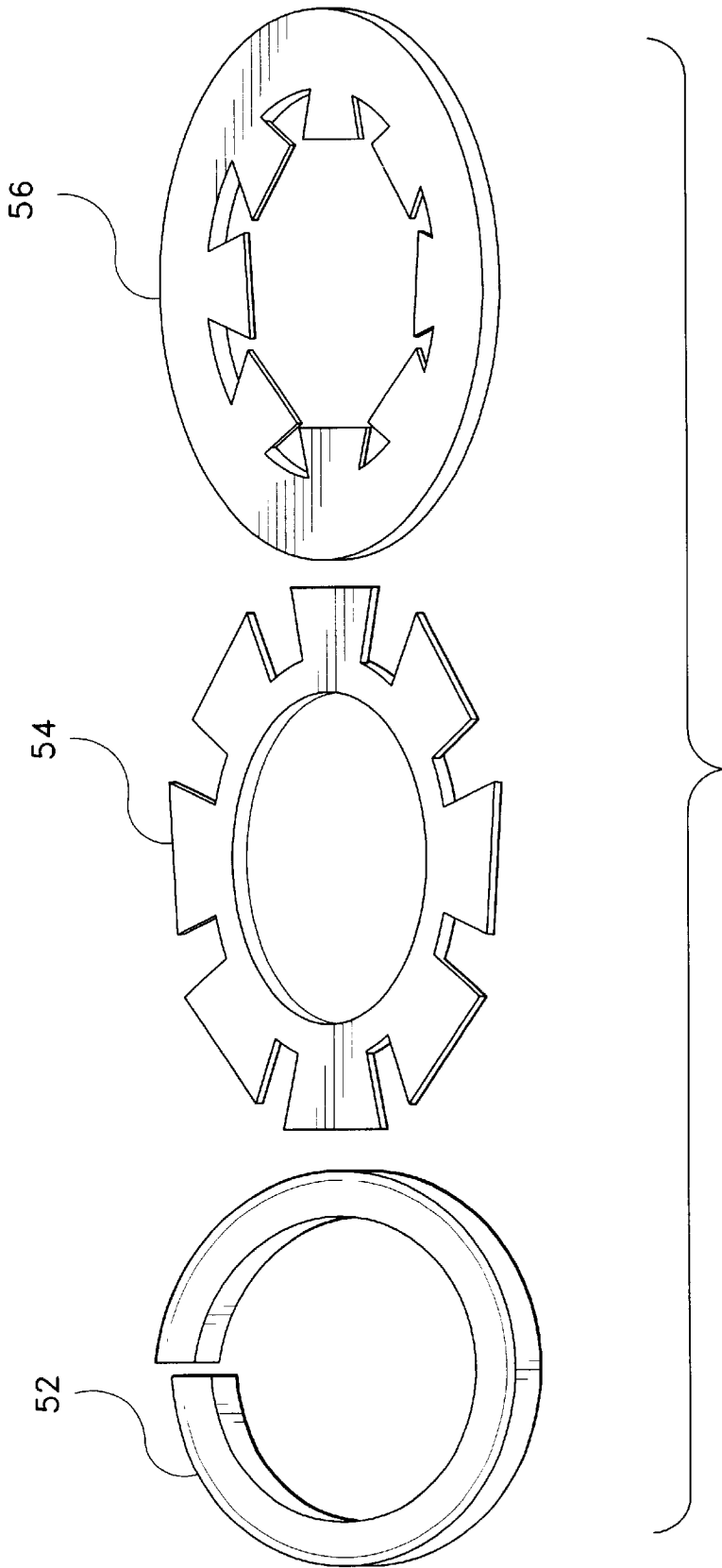


Fig. 3



*Fig. 4*

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