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(12) **United States Patent**
Chen

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(54) **ELECTRICAL CONNECTOR ENSURING EFFECTIVE GROUNDING CONTACT**

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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.

(57) **ABSTRACT**

(21) Appl. No.: **12/385,905**

An electric connector ensuring effective grounding contact includes coaxially arranged inner sleeve and outer sleeve and a conductive grounding element. The inner sleeve is adapted to receive a central conductor and an insulating spacer of a cable therein, and can be axially rearward moved from a first position to a second position, and the outer sleeve is adapted to receive a braided conductive grounding sheath and an insulating sheath of the cable therein. The conductive grounding element is externally immovably fitted around the inner sleeve. When a stripped free end of the cable is inserted into the connector and the cable is rearward pulled, the inner sleeve is simultaneously rearward moved from the first position to the second position, forcing the inner sleeve, the conductive grounding element, and a connecting ring coaxially mounted around the inner sleeve to electrically contact with one another.

(22) Filed: **Apr. 23, 2009**

(51) **Int. Cl.**
H01R 9/05 (2006.01)

(52) **U.S. Cl.** **439/578**

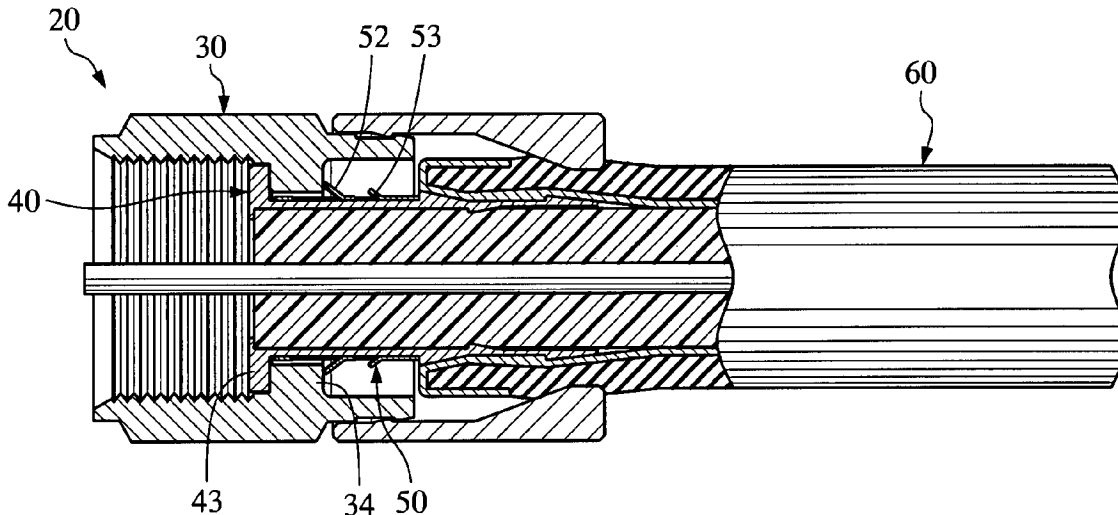
(58) **Field of Classification Search** 439/578–585
See application file for complete search history.

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3 Claims, 5 Drawing Sheets



CORNING EXHIBIT 1010

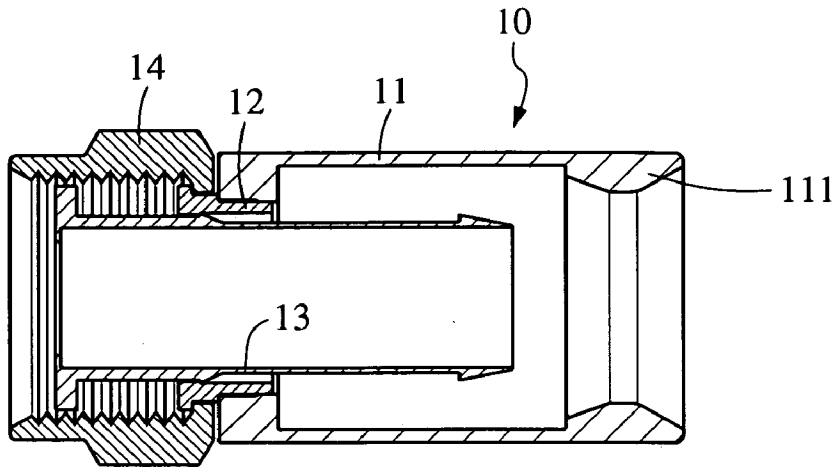


FIG. 1 A
PRIOR ART

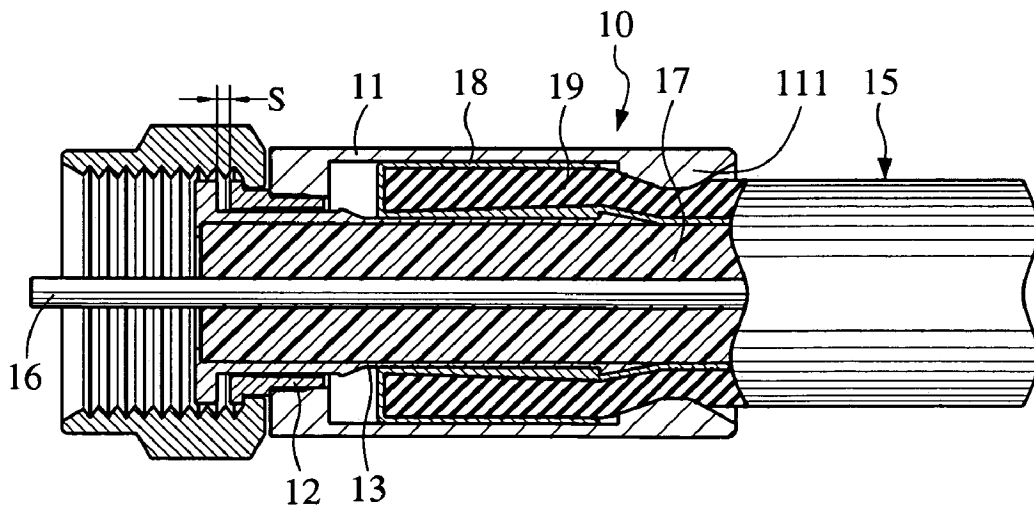


FIG. 1 B
PRIOR ART

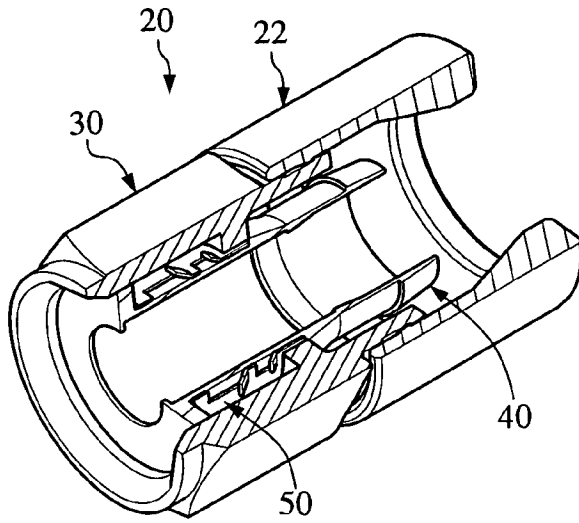


FIG. 2

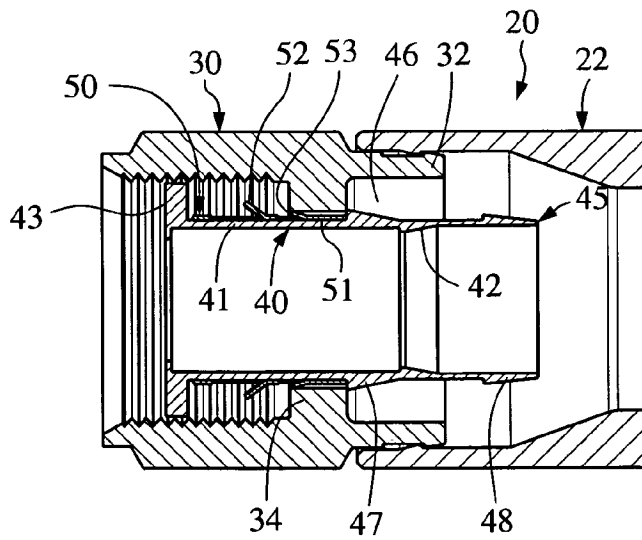


FIG. 3

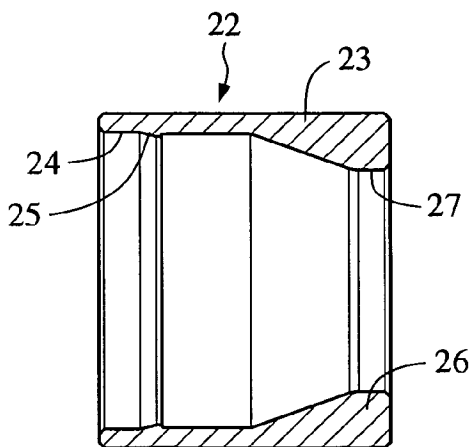


FIG. 4

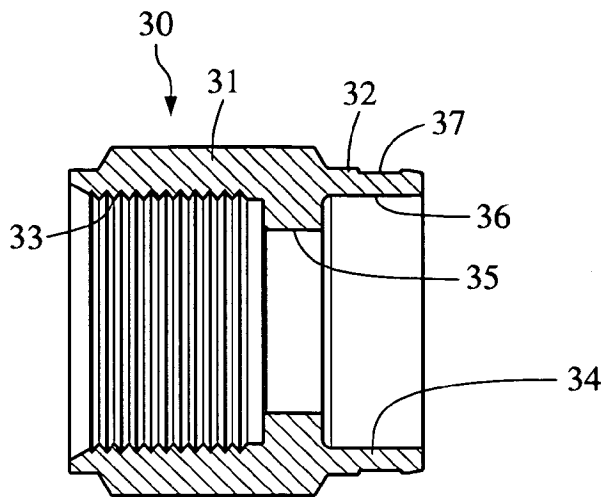


FIG. 5

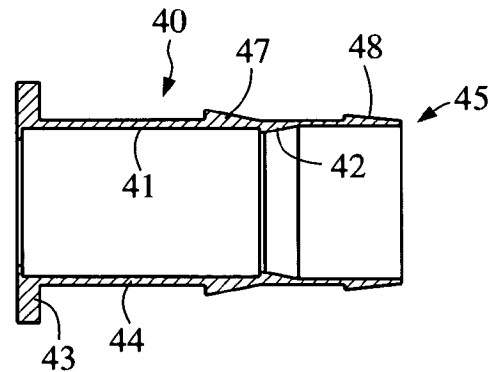


FIG. 6

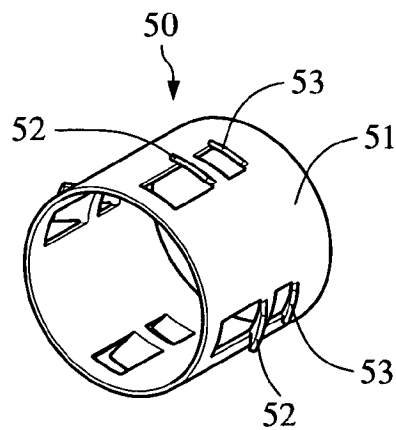
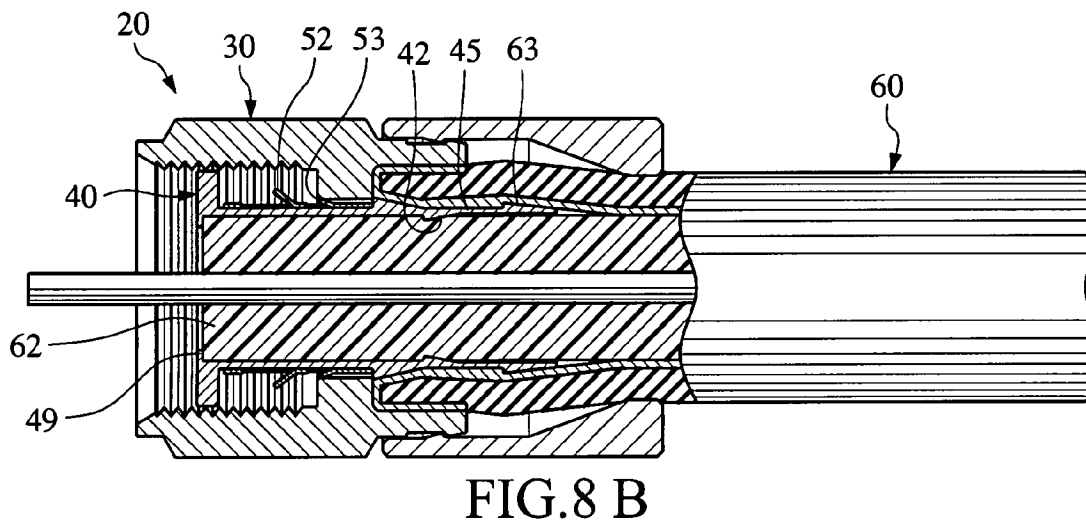
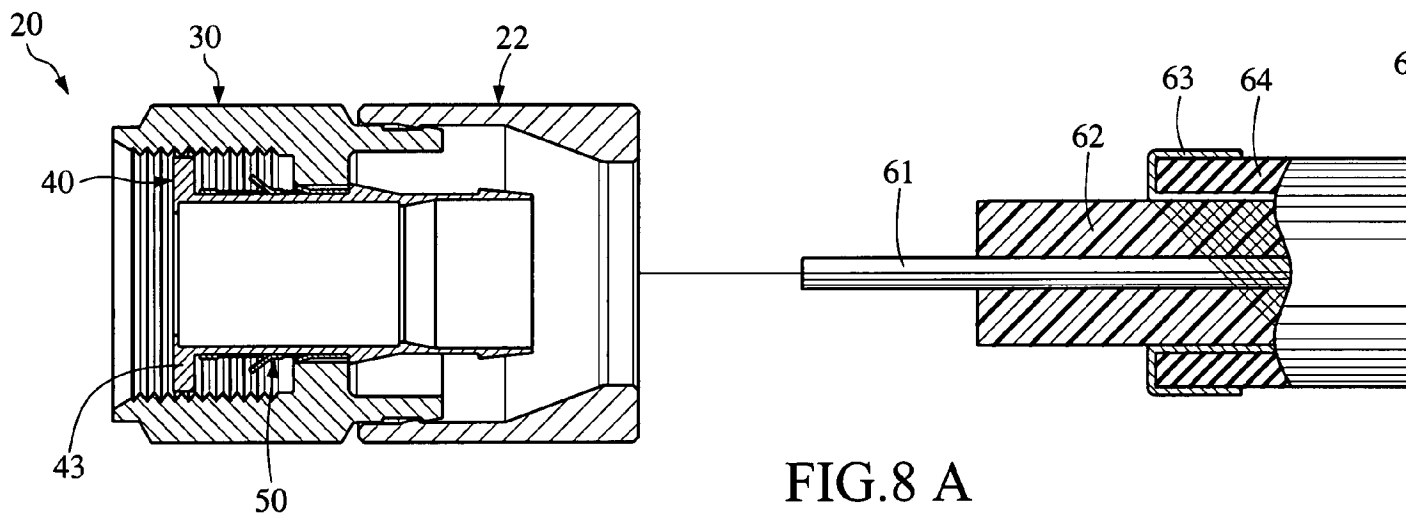


FIG. 7



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