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(19) **United States**(12) **Patent Application Publication**
Montena(10) **Pub. No.: US 2008/0102696 A1**(43) **Pub. Date: May 1, 2008**(54) **FLEXIBLE RF SEAL FOR COAX CABLE
CONNECTOR****Publication Classification**(51) **Int. Cl.**
H01R 9/05 (2006.01)(52) **U.S. Cl.** **439/578**(57) **ABSTRACT**(75) **Inventor:** **Noah Montena, Syracuse, NY (US)**

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The present invention incorporates a flexible RF seal into the ground face of a typical connector. The seal comprises a flexible brim, a transition band, and tubular insert with a insert chamber defined within the seal. In a first embodiment the flexible brim is angled away from the insert chamber, and in a second embodiment the flexible brim is angled inward toward the insert chamber. A flange end of the seal makes a compliant contact between the port and connector faces when the nut of a connector is partially tightened, and becomes sandwiched firmly between the ground surfaces when the nut is properly tightened. The present invention allows the connector to make a uniform RF seal on a port even with a range of tightening torques.

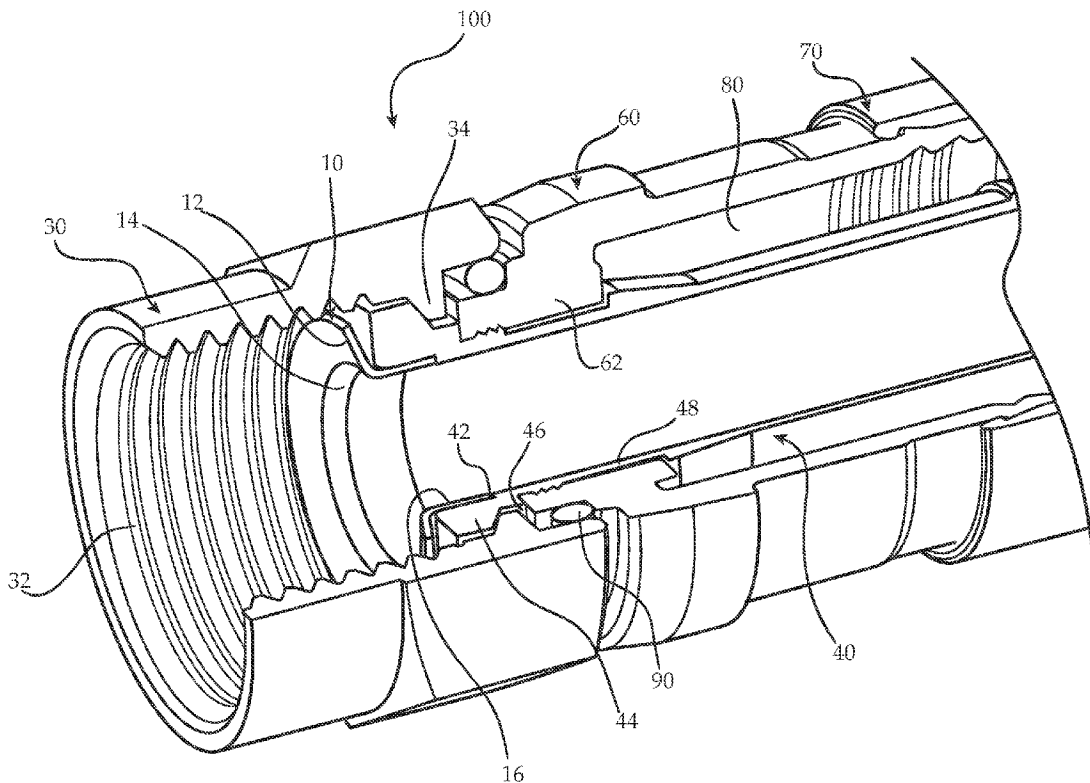
**PPC Exhibit 2016****Corning v. PPC****IPR2016-01573**

Fig. 1A

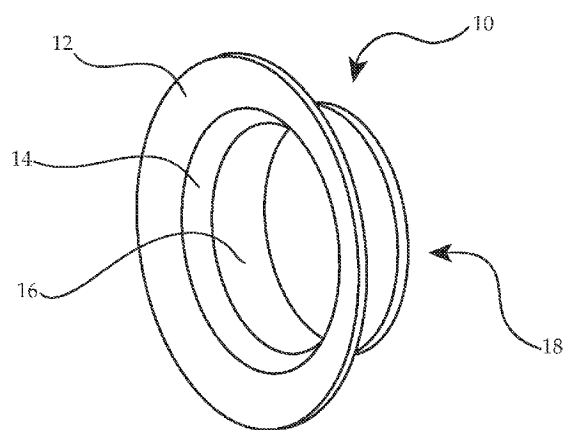
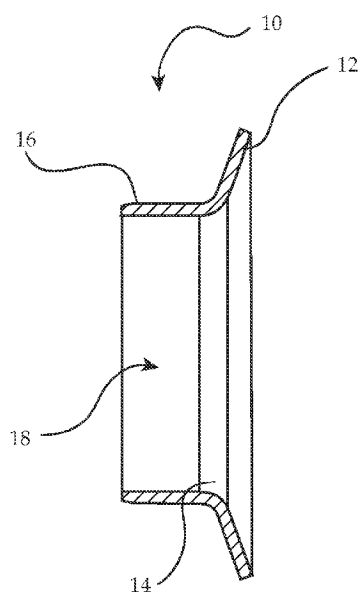


Fig. 1B

Fig. 2A

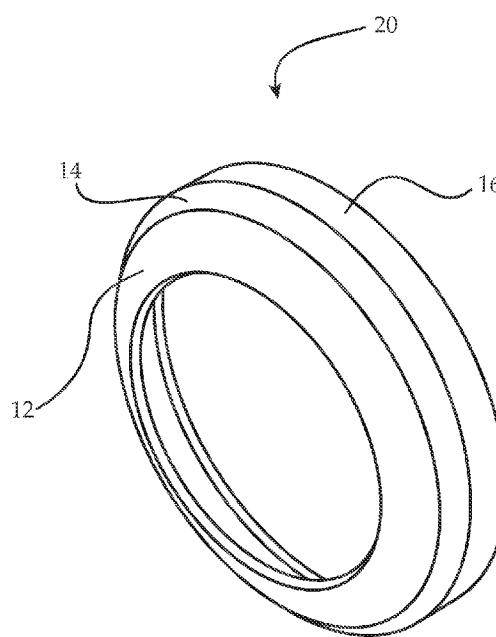
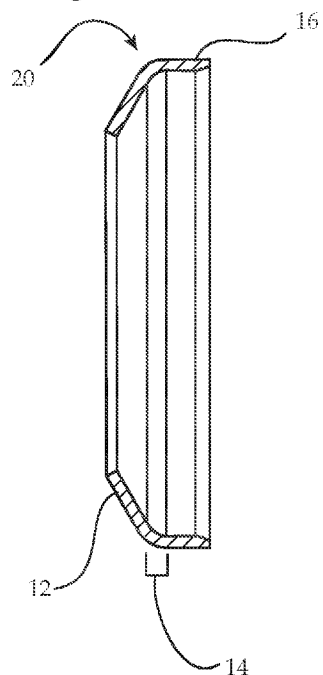


Fig. 2B

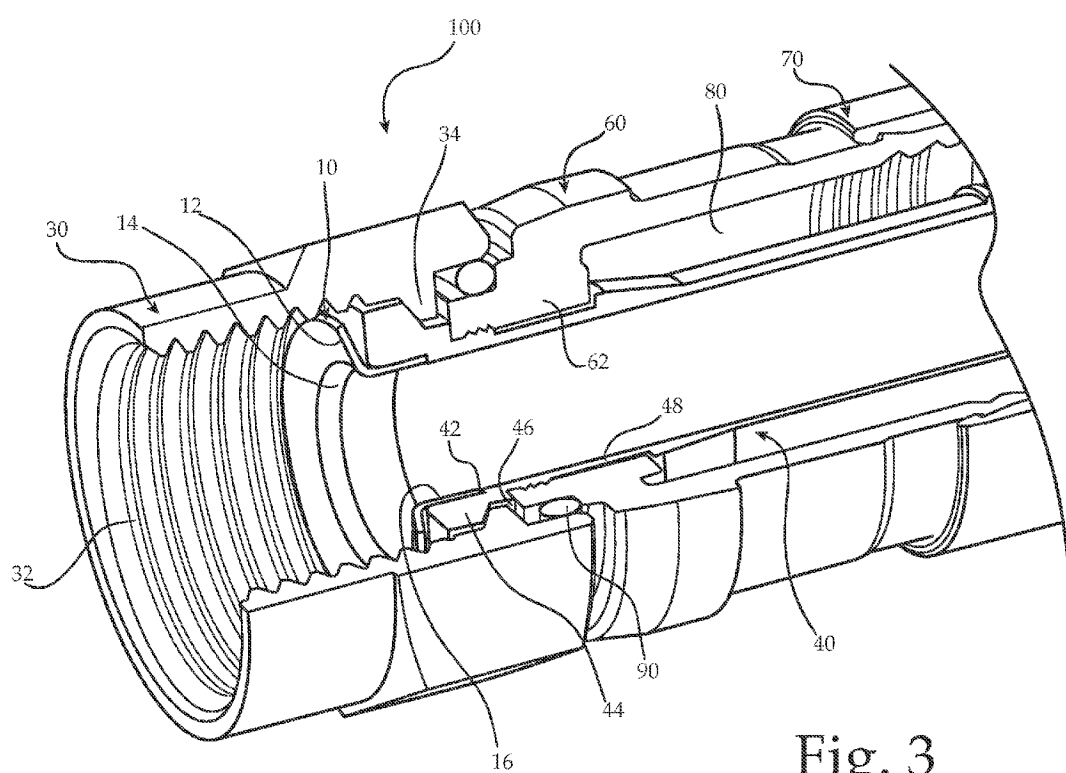
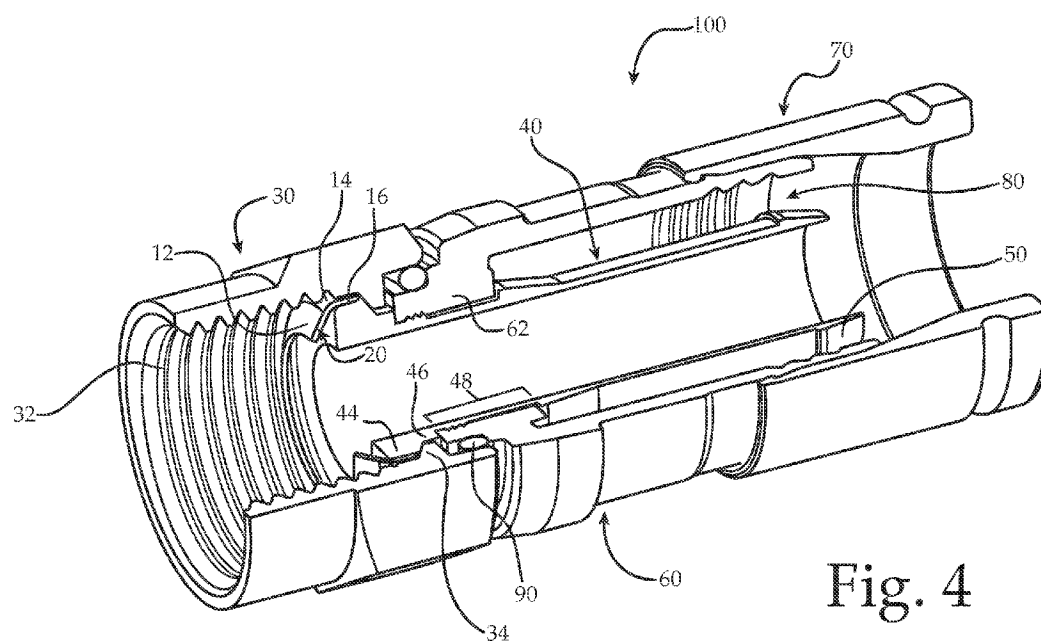


Fig. 3



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