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(54) **FLEXIBLE RF SEAL FOR COAX CABLE CONNECTOR**

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(57) **ABSTRACT**

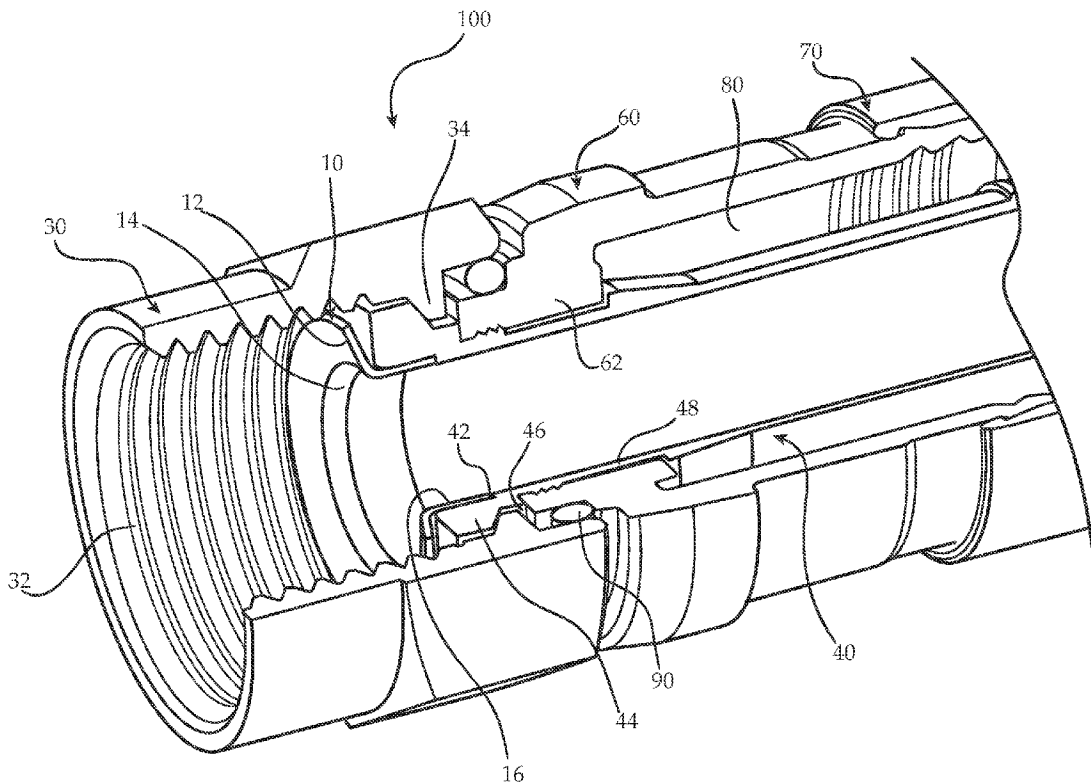
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The present invention incorporates a flexible RF seal into the ground face of a typical connector. The seal comprises a flexible brim, a transition band, and tubular insert with an insert chamber defined within the seal. In a first embodiment the flexible 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.

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Corning v. PPC

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Fig. 1A

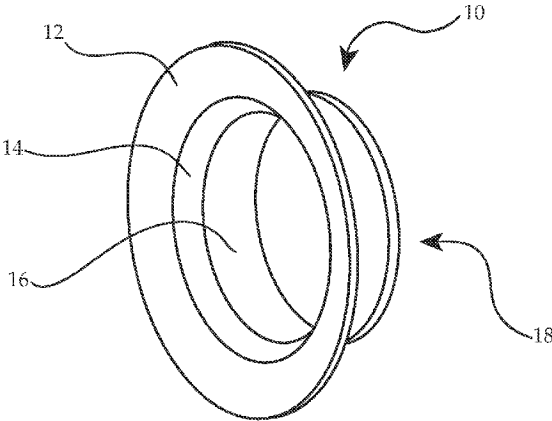
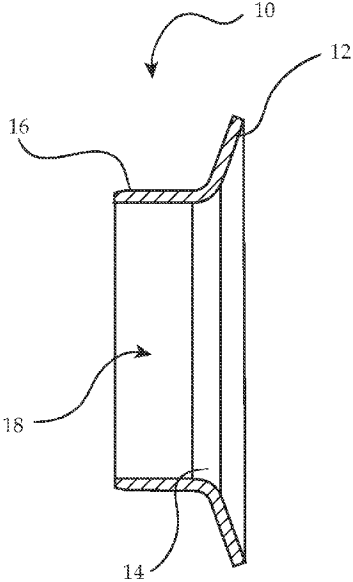


Fig. 1B

Fig. 2A

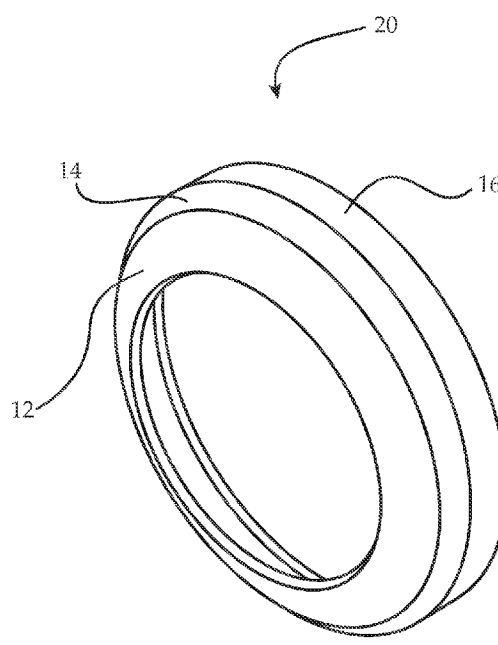
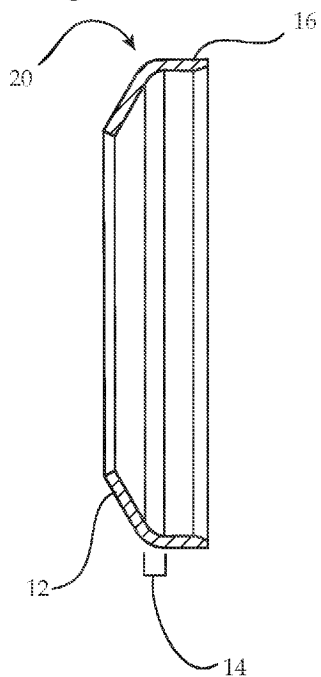


Fig. 2B

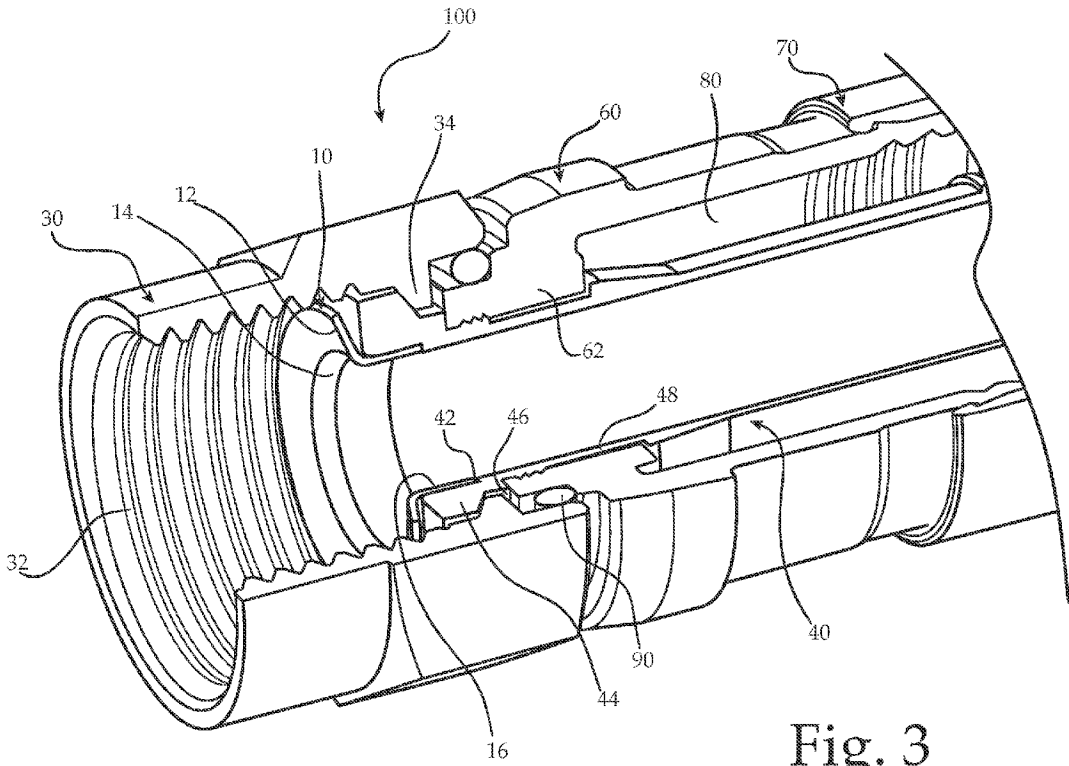


Fig. 3

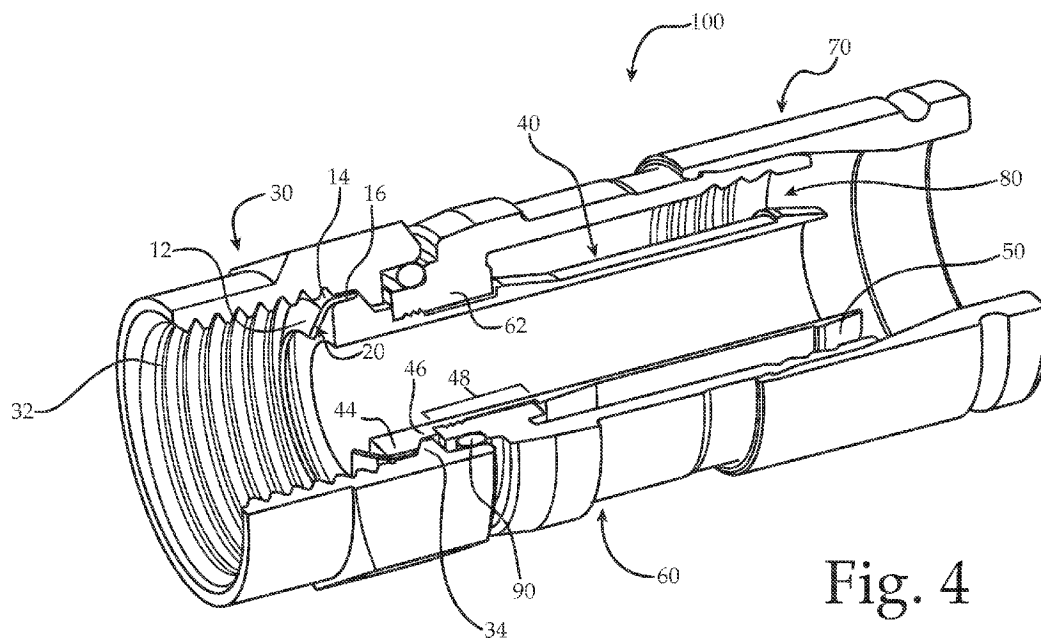


Fig. 4

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