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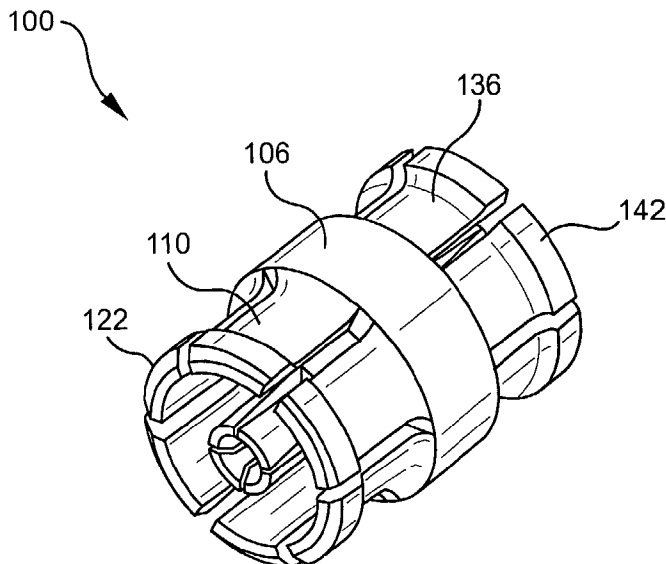
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(54) Title: HIGH FREQUENCY, BLIND MATE, COAXIAL INTERCONNECT



(57) Abstract: A coaxial transmission medium connector is provided for connecting to a coaxial transmission medium to form a coaxial conduction path, wherein the coaxial transmission medium has an inner conductor and an outer conductor. The coaxial transmission medium connector includes an outer conductor portion for electrically coupling to the outer conductor of the coaxial transmission medium. The outer conductor portion includes a base portion, a plurality of cantilevered beams, and a plurality of slots extending substantially circumferentially about a substantially non-conductive cavity and substantially about a longitudinal axis extending through the cavity. Each of the cantilevered beams is coupled to the base portion at a transition portion and terminates at a distal end. Each of the cantilevered beams has a respective tapering profile with respect to the longitudinal axis that tapers in a direction away from the base portion. A center conductor portion is disposed within the cavity for electrically coupling to the inner conductor of the coaxial transmission medium. Related apparatus and methods are provided.

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