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(54) Title: MULTI-MATERIAL FIBERS AND METHODS OF MANUFACTURING THE SAME

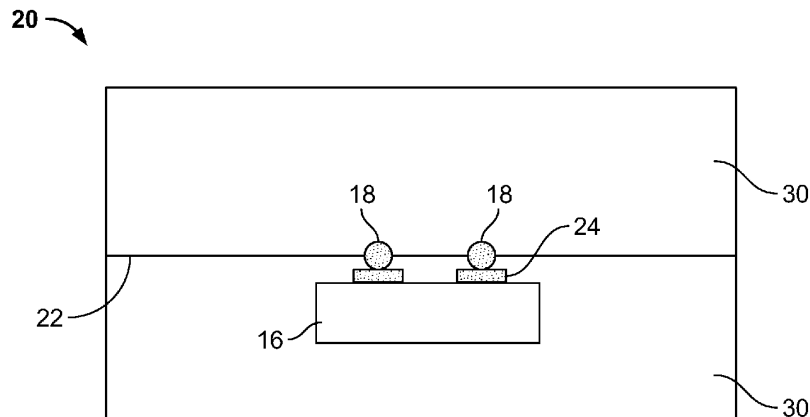


FIG. 4

(57) **Abstract:** Methods of manufacturing multi-material fibers having one or more electrically-connectable devices disposed therein are described. In certain instances, the methods include the steps of: positioning the electrically-connectable device(s) within a corresponding pocket provided in a preform material; positioning a first electrical conductor longitudinally within a first conduit provided in the preform material; and drawing the multi-material fiber by causing the preform material to flow, such that the first electrical conductor extends within the multi-material fiber along a longitudinal axis thereof and makes an electrical contact with a first electrode located on each electrically-connectable device. A metallurgical bond may be formed between the first electrical conductor and the first electrode while drawing the multi-material fiber and/or, after drawing the multi-material fiber, the first electrical conductor may be located substantially along a neutral axis of the multi-material fiber.

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