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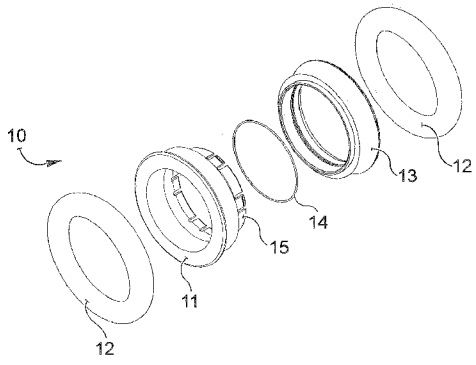
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(54) **Title:** A DEVICE AND A METHOD FOR ANASTOMOSIS



(57) **Abstract:** A device (10, 200) for anastomosis of a tubular structure (90) comprises a first and a second member of a generally hollow open configuration, which each includes a rigid part (11, 13) and an elastic part (12), and a connection member (15, 160) for interlocking the first and second members. According to a first embodiment the connection member (15) is integral with the rigid part (11) of the first member, and has longitudinal slits (37) forming tongues (38) there between, of which at least one has an outward protrusion (39) at its free end.). In an alternate embodiment of the first embodiment, the connection member (15) has at least one circumferential groove (192) around the outer periphery, and the second rigid part (193) has a protrusion (194) arranged around the inner periphery. According to a second embodiment (200) the connection member (160) is arranged as a member separated from the first rigid part (11). The elastic parts (12) are essentially circular rings, and are made of a polymeric, a biocompatible and/or biodegradable material. The rigid parts (11, 13) have an outer surface that is partly semi-circular in cross section, wherein the diameter at a non-connecting end (30, 40) is larger than or equal to the diameter at a connecting end (31, 41), which ends in an edge (36, 46). The first and second members are connected to each other so that a distance is formed between the elastic parts (12). A cavity (203) is formed between the rigid parts (13) and the connection member and the tubular structure (90), when arranged in the device (200).

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