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(54) **Title:** RECONFIGURABLE WORKSPACE SOFT GRIPPER

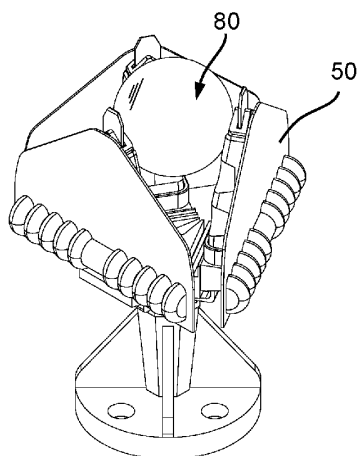


FIG. 7B

(57) **Abstract:** A device including: a finger body, the finger body including one or more finger cavities disposed along a length of the finger body, the length of the finger body in a default shape defining a first axis, the finger body being bendable away from the first axis in response to a change in a finger fluid pressure in the one or more finger cavities; and a petal, the petal being coupled to the finger body at one or more points along the length of the finger body, the petal having one or more petal cavities disposed thereon, wherein the petal is actively deformable and/or passively deformable in response to the bending of the finger body and/or a change in a petal fluid pressure in the one or more petal cavities.