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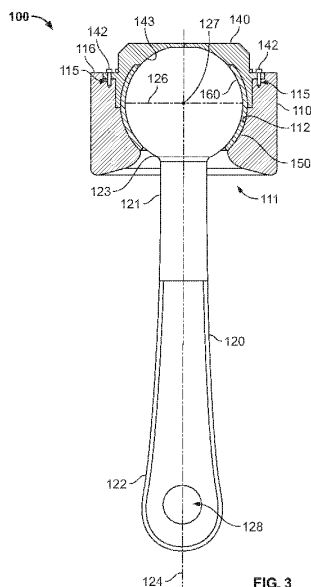
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(54) Title: MECHANICAL JOINTS AND PROCESS FOR USING SAME



(57) Abstract: A mechanical joint configured to provide an articulated connection between a first member and a second member. In some embodiments, the mechanical joint can include a support member (110) and an arm (120). The support member can define an aperture (111) therethrough and a socket (113) on an inner surface thereof. The arm can include a ball (123) disposed on a first end (121) thereof that can be engaged within and supported by the socket defined by the support member. A second end (122) of the arm can extend through the aperture of the support member such that the arm can rotate relative to the support member about a longitudinal axis of the arm and at least partially rotate about two axes that pass through a center point of the ball that are perpendicular to one another and to the longitudinal axis of the arm.

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