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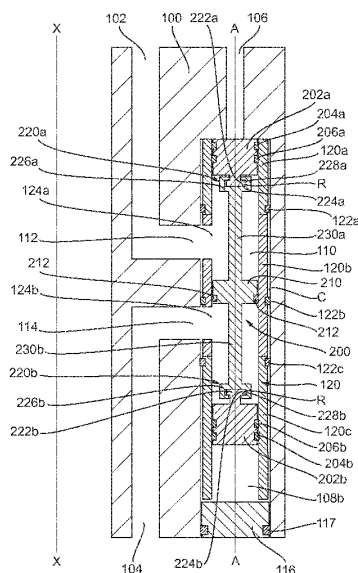
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(54) Title: TUBING HANGER WITH SLEEVED ANNULUS ISOLATION DEVICE AND DYNAMIC METAL SEAL ELEMENTS

Fig. 2A



(57) Abstract: The present disclosure relates to a tubing hanger (100) comprising an annulus communication cavity (110) and an annulus isolation device (AID) (200) disposed within the cavity (110). The AID (200) is operable to move between a closed position in which fluid communication to a downhole annulus (30) via the cavity (110) is prevented and an open position in which fluid communication to the downhole annulus (30) via the cavity (110) is permitted. A metal sleeve (120) surrounds the AID (200) and is disposed between the AID (200) and a surface defining the cavity (110). The AID (200) further comprises one or more metal seal elements (212) that form a dynamic metal-to-metal (MtM) seal with the metal sleeve (120). The present disclosure also relates to the metal seal element (212). These permit reduced manufacture costs, improved seal wear properties and reduced replacement/maintenance costs.

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