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(54) Title: APPARATUS AND METHOD RELATING TO MANAGED PRESSURE DRILLING

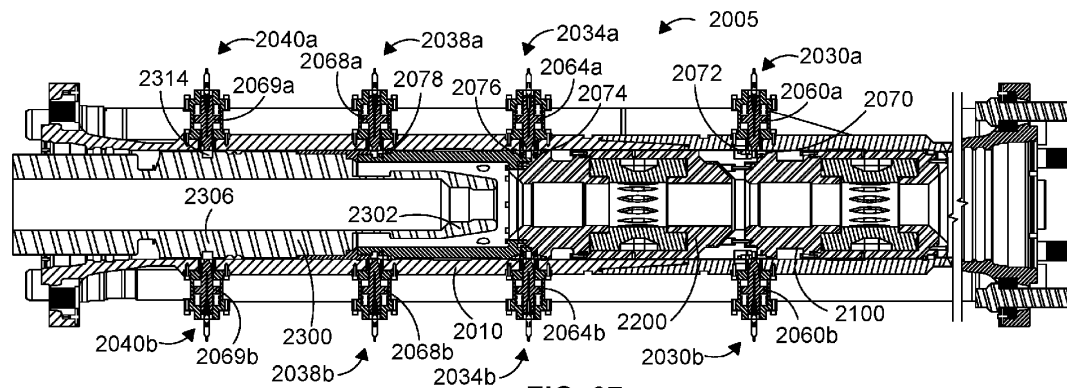


FIG. 37

(57) Abstract: An actuatable sealing mechanism (1030, 1034, 1038; 2030, 2034, 2038; 3007) for sealing a fluid channel (1024; 2024; 3013) provided between two co-axially arranged tubular members (1010 & 1100, 1200, 1300; 2010 & 2100, 2200, 2300; 3010, 3012) having a central longitudinal axis. The actuatable sealing mechanism comprises an elastomeric seal (1209; 2209; 3015), an axially moveable actuating sleeve member (1400; 2400; 3020) and a radially moveable activating member (1060, 1064, 1068; 2060, 2064, 2068; 3025). The activating member is configured to be moveable in a radial direction in use to translate the actuatable sealing mechanism between an unsealed state and a sealed state. When it is in the unsealed state, the activating member does not move the actuating sleeve member sufficiently in a first axial direction to axially compress the elastomeric seal sufficiently to expand the elastomeric seal in a radial direction to seal the fluid channel.

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