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(54) Title: SEAL ASSEMBLY

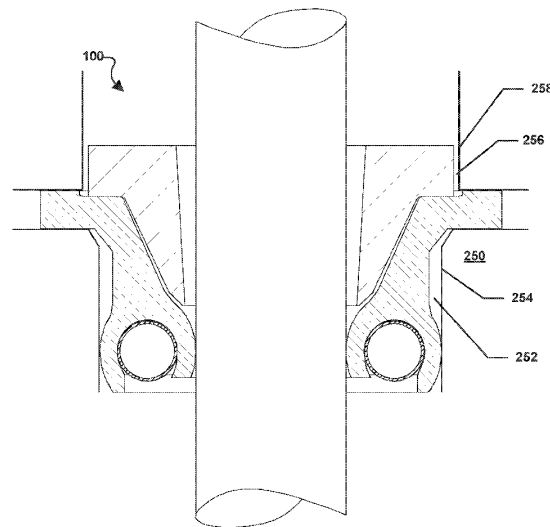


FIG. 11

(57) Abstract: A seal assembly for high pressure equipment is disclosed and can include a back-up ring having a head and an extension extending from the head. The extension can include an interior surface that extends axially away from and radially inwardly from the head. The seal assembly can also include a spring energized seal having a jacket having a sealing portion with an annular spring disposed within the sealing portion of the jacket. At least a portion of the jacket fits around the extension of the back-up ring and wherein the back-up ring has a minimum inner diameter, IDBUR, the spring energized seal has a minimum inner diameter, IDSES, and IDSES is less than IDBUR.

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