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(54) Title: HIGHLY ELASTIC METAL SEAL

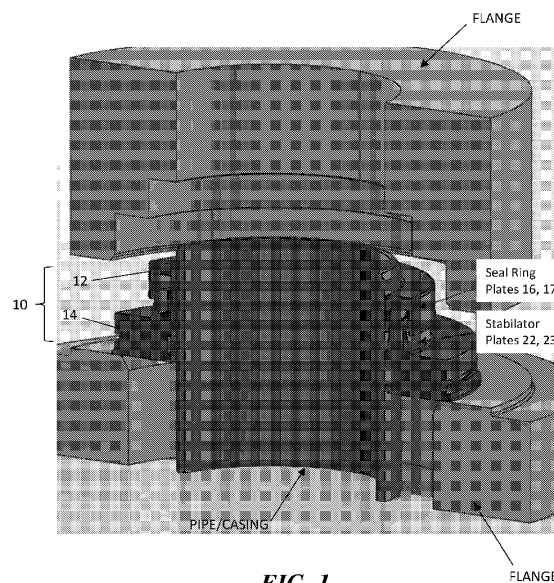


FIG. 1

(57) Abstract: A highly elastic annular seal assembly includes a metal stabilator having inner and outer spaced-apart and projecting annular plates coupled to a common base and forming a U-shaped geometry, and a metal seal ring having inner and outer spaced-apart and projecting annular plates coupled to a common base and having a U-shaped geometry with a central groove. The stabilator plates are configured to be disposed within the central groove between the seal ring plates, and the stabilator plates being configured to gradually urge the seal ring plates outward as the seal ring and stabilator are brought together until a portion of the first seal ring plate contacts and forms a seal against a mating body disposed within the first seal ring plate.

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