HANGER FLOATING RING AND SEAL ASSEMBLY SYSTEM AND METHOD

ABSTRACT

[0056] Systems and methods are provided for isolating a landing ring of a hanger from pressure inside a wellhead and sealing a portion of the hanger via a seal assembly. The hanger includes a floating ring axially interposed between the landing ring and the seal assembly, and between the landing ring and a shoulder of the hanger. The seal assembly includes one or more radially retractable elastomeric seals that are radially retracted during run in of the seal assembly. The radially retractable seals may be radially expanded via shearing of one or more shear pins by torque applied to the seal assembly. The seal assembly may also include one or more metal seals having a plurality of rings having a nib configuration that includes three smaller nibs for sealing and a larger flat nib for withstanding the energizing load on the seal assembly.

Fig. 3