

SYSTEMS AND METHODS FOR RIGIDIZING A SEAL

ABSTRACT

A system includes a seal assembly configured to retain a casing hanger within a wellhead. The seal assembly includes: a main body including at least one tapered surface on an upper end thereof; a lock ring coupled to the main body and configured to expand radially outward into a profile on an inner diameter of the wellhead; and a cam ring disposed above the main body and having at least one tapered surface on a lower end thereof, the at least one tapered surface of the cam ring interfacing with the at least one tapered surface of the main body such that rotation of the cam ring in a first direction with respect to the main body causes the lock ring to move axially upward.

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FIG. 1