

EXPANDABLE ANCHORING MECHANISM

Abstract of the Disclosure

A bridging hanger (M) with an expandable anchoring mechanism lands on a casing hanger (36) in a subsea wellhead (32) and actuates to anchor to the casing hanger (36). The anchoring mechanism includes a tubular main body (40), and a tubular sealing sleeve (42). The tubular sealing sleeve (42) is coaxial with and mounted on an exterior diameter portion of the tubular main body (40). The body (40) is moveable from an upper run-in position to a lower set position relative to the sealing sleeve (42). The anchoring mechanism also includes a first and second locking ring (44, 46), both carried by the sealing sleeve (42). The first locking ring (44) engages a profile (37) within an interior of the casing hanger (36) in response to movement of the main body (40) from the run-in to the set position. The second locking ring (46) locks the tubular main body (40) in the set position in response to movement of the main body (40) from the run-in to the set position.

[Figure 1]