ABSTRACT

[Figs. 2, 2a & 2b]

TUBING HANGER LOCKDOWN MECHANISM

A completion component such as a tubing hanger 12 includes a lockdown mechanism with an actuating mandrel 26 that includes a positively acting anti-backout mechanism, which can be remotely deployed. The mechanism comprises a tooth 16 on an inwardly biassed retention ring 14 carried by the mandrel 26, and positively engageable with a corresponding profile 32 on the tubing hanger 12. Detent pins 18, 20 are outwardly biassed by a tubing hanger running tool latch piston 40 to hold the tooth 16 and profile 32 out of engagement during installation of the tubing hanger and setting of the actuating mandrel 26.