

Abstract

A CONTINGENCY RELEASE DEVICE THAT USES RIGHT-HAND TORQUE TO ALLOW MOVEMENT OF A COLLET PROP

According to an embodiment, a device comprises: a torsion lock sleeve, wherein the torsion lock sleeve comprises a crenellated second end, wherein the torsion lock sleeve is tubular in shape, and wherein at least a portion of the inner circumference of the torsion lock sleeve engages at least one ridge; and a release nut, wherein the release nut comprises a crenellated first end, and wherein the first end of the release nut is capable of engaging the second end of the torsion lock sleeve. According to another embodiment, a method of displacing the release nut comprises: positioning the device in a portion of a subterranean formation; moving the torsion lock sleeve, wherein the step of moving the torsion lock sleeve comprises disengaging the first end of the release nut with the second end of the torsion lock sleeve; and moving the release nut. According to certain embodiments, the release nut is moved by applying a right-hand torque to at least an inner release mandrel.

Fig. 1A