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FILING RECEIPT



27479
COCHRAN FREUND & YOUNG LLC
2026 CARIBOU DR
SUITE 201
FORT COLLINS, CO 80525

Date Mailed: 09/23/2016

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**** SMALL ENTITY ****

Title

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Larsen et al.

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- (54) **ROTATABLE TUBING ANCHOR**
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- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 410 days.
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E21B 33/04 (2006.01)
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- (52) **U.S. Cl.**
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See application file for complete search history.

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(57) **ABSTRACT**

A rotatable tubing anchor for anchoring a tubing string to a casing in a well; wherein a lock pin extending radially inward from a cylindrical drag body interacts with a lazy T portion of a lock slot in a peripheral surface of a mandrel positioned in the cylindrical drag body limits vertical and rotational movement of the mandrel in relation to the cylindrical drag body in a manner that enables retaining, controlling, setting, and releasing anchor slips on the rotatable tubing anchor for lowering a tubing string equipped with the rotatable tubing anchor and a down hole pump into a well, anchoring the tubing string to casing in the well against upward tension on the tubing string while allowing rotation of the tubing string, and releasing the rotatable tubing anchor from the casing to enable pulling the tubing string, rotatable tubing anchor, and pump out of the well.

6 Claims, 14 Drawing Sheets

