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- (72) **Inventors; and**
- (75) **Inventors/Applicants (for US only):** **MCMILLON, Christopher Michael** [US/US]; 1503 River Oaks Cr., Apt 621, Wylie, Texas 75098 (US). **WRIGHT, Adam** [US/SA]; Al Rushaid Village 1, Villa 250, P.O. Box 32025, Alkhobar, 31952 (SA).
- (74) **Agents:** **CONLEY ROSE, P.C.** et al.; 5601 Granite Parkway, Suite 750, Plano, Texas 75024 (US).
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(54) **Title:** MAGNETIC FIELD DOWNHOLE TOOL ATTACHMENT

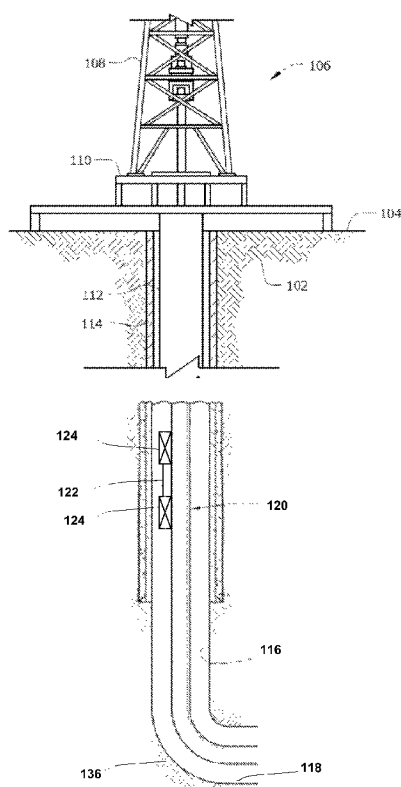


FIG. 1

(57) **Abstract:** A magnetic attachment mechanism for use with a downhole tool comprising a plurality of permanent magnets, wherein each permanent magnet of the plurality of permanent magnets has a magnetic field; a demagnetizer configured to at least partially cancel one or more magnetic fields in an activated state; an actuator configured to transition the demagnetizer between the activated state and a deactivated state, or the deactivated state and the activated state; and at least one downhole tool coupled to the plurality of permanent magnets.



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