

Title (en)
METHODS OF MAKING A DRILLING TOOL WITH LOW FRICTION COATINGS TO REDUCE BALLING AND FRICTION

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES BOHRWERKZEUGS MIT BESCHICHTUNGEN MIT GERINGER REIBUNG ZUR VERRINGERUNG DER ZUSAMMENBALLUNG UND REIBUNG

Title (fr)
PROCÉDÉ DE FABRICATION D'UN OUTIL DE FORAGE COMPORTANT DES ENDUITS À FAIBLE FRICTION DESTINÉS À RÉDUIRE LA FORMATION DE BOULETTES ET LA FRICTION

Publication
EP 2935652 A1 20151028 (EN)

Application
EP 13826685 A 20131220

Priority
• US 201213724403 A 20121221
• US 201314133902 A 20131219
• US 2013076970 W 20131220

Abstract (en)
[origin: US2014173995A1] Provided are methods to make a drilling tool with low friction coatings to reduce balling and friction. In one form, the method includes providing one or more drilling tool components with specified locations for fitting cutters, inserts, bearings, rollers, additional non-coated components, or combinations thereof; cleaning the one or more drilling tool components; applying masking for fitting cutters, inserts, bearings, rollers, additional non-coated components or combinations thereof; applying a multi-layer low friction coating to the cleaned specified locations; removing the masking from the cleaned and coated specified locations of the one or more drilling components; inserting cutters and inserts and assembling moving parts to the cleaned and coated specified locations of the one or more drilling tool components; and assembling the one or more drilling tool components to form a drilling tool.

IPC 8 full level
C23C 28/04 (2006.01); **C23C 28/00** (2006.01); **E21B 10/00** (2006.01); **E21B 17/00** (2006.01); **E21B 17/10** (2006.01)

CPC (source: EP US)
B24D 18/0027 (2013.01 - US); **C23C 14/024** (2013.01 - EP US); **C23C 16/0272** (2013.01 - EP US); **C23C 28/044** (2013.01 - EP US); **C23C 28/046** (2013.01 - EP US); **C23C 28/322** (2013.01 - EP US); **C23C 28/343** (2013.01 - EP US); **C23C 28/347** (2013.01 - EP US); **C23C 28/42** (2013.01 - EP US); **E21B 10/00** (2013.01 - EP US); **E21B 17/10** (2013.01 - EP US)

Citation (search report)
See references of WO 2014100608A1

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Designated extension state (EPC)
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