

Title (en)
DRILLS STRING COMPONENTS HAVING MULTIPLE-THREAD JOINTS

Title (de)
BOHRSTRANGKOMPONENTEN MIT MULTIGEWINDEVERBINDUNGEN

Title (fr)
COMPOSANTS DE TRAIN DE TIGES DE FORAGE PRÉSENTANT DES JOINTS À FILETAGES MULTIPLES

Publication
EP 2895679 A4 20160601 (EN)

Application
EP 13837637 A 20130913

Priority
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Abstract (en)
[origin: WO2014043505A1] Implementations of the present invention comprise drill string components having at least one thread extending around a body. The leading end of the thread can have a configuration having increased strength and resistance to jamming and cross-threading. In particular, the leading end of the thread can comprise a planar surface normal to the body. The leading end of the thread can provide an abrupt transition to full thread depth that helps reduce or eliminate cross-threading and can be oriented at an angle relative to the axis of the drill string component. The thread can further provide at least one of a variable thread width and a variable thread pitch configured to create an axial progressive fit. The thread can also provide a cylindrical thread root and a thread crest that circumscribes a frusta-cone over at least a portion of the axial length of the threads configured to create a radial progressive fit.

IPC 8 full level
E21B 17/042 (2006.01); **E21B 19/16** (2006.01)

CPC (source: CN EP RU)
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Citation (search report)
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WO 2014043505 A1 20140320; AU 2013315186 A1 20150409; AU 2013315186 B2 20161201; AU 2017201366 A1 20170316; AU 2017201366 B2 20181206; AU 2017201366 C1 20190725; AU 2019201562 A1 20190328; AU 2019201562 B2 20201001; BR 112015005576 A2 20170808; BR 112015005576 B1 20210302; CA 2884798 A1 20140320; CA 2884798 C 20170815; CA 2973262 A1 20140320; CA 2973262 C 20200630; CL 2015000632 A1 20150703; CN 104769210 A 20150708; CN 104769210 B 20180921; EP 2895679 A1 20150722; EP 2895679 A4 20160601; EP 2895679 B1 20200805; EP 3767068 A1 20210120; IN 2778DEN2015 A 20150904; PE 20150586 A1 20150506; PE 20200332 A1 20200213; RU 2015113367 A 20161110; RU 2016149672 A 20181102; RU 2016149672 A3 20200402; RU 2020117937 A 20211201; RU 2607560 C2 20170110; RU 2723056 C2 20200608; ZA 201502415 B 20190731; ZA 201806700 B 20200129

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