

Title (en)
DOUBLE SHOULDER TOOL JOINT

Title (de)
WERKZEUGVERBINDUNG MIT DOPPELTER SCHULTER

Title (fr)
JOINT D'OUTIL À DOUBLE ÉPAULEMENT

Publication
EP 2964988 A4 20161228 (EN)

Application
EP 13877149 A 20130305

Priority
JP 2013001345 W 20130305

Abstract (en)
[origin: WO2014136139A1] A double shoulder tool joint, whose a sealing surface (including a pin sealing surface and a box sealing surface) is less subject to damages so that the tool joint has excellent liquid sealability when the drill pipes are interlocked and used, is provided. A double shoulder tool joint includes a box having a box access sleeve including a first contact surface perpendicular to a pipe axis, a female threaded portion having a taper relative to the pipe axis, a box backward sleeve including a second contact surface perpendicular to the pipe axis, and a pin having a pin base including a third contact surface to contact the first contact surface, a male threaded portion to be screwed and engaged to the female threaded portion, a pin nose including a fourth contact surface perpendicular to the pipe axis to contact the second contact surface. The double shoulder tool joint further includes a guard portion including a fifth contact surface provided in a tip portion of the box extended forward from the first contact surface or a sixth contact surface provided in a tip portion of the pin extended forward from the fourth contact surface.

IPC 8 full level
F16L 15/04 (2006.01); **E21B 17/042** (2006.01)

CPC (source: CN EP)
E21B 17/042 (2013.01 - CN EP)

Citation (search report)

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- [X] US 5681059 A 19971028 - MACKIE MICHAEL J [US]
- [AD] JP 2007530875 A 20071101
- [A] WO 2005095840 A1 20051013 - NKKTUBES [JP], et al
- [A] JP S59159486 A 19840910 - SUMITOMO METAL IND
- See references of WO 2014136139A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2014136139 A1 20140912; CN 105008785 A 20151028; CN 105008785 B 20180619; EP 2964988 A1 20160113; EP 2964988 A4 20161228; EP 2964988 B1 20181024; JP 2016513214 A 20160512; JP 6151793 B2 20170621

DOCDB simple family (application)
JP 2013001345 W 20130305; CN 201380074327 A 20130305; EP 13877149 A 20130305; JP 2015543181 A 20130305