

Title (en)

HIGH PRESSURE LARGE BORE WELL CONDUIT SYSTEM

Title (de)

HOCHDRUCK-LEITUNGSSYSTEM FÜR GROSSES BOHRLOCH

Title (fr)

SYSTÈME DE CONDUITS DE PUITS À ALÉSAGE DE GROS CALIBRE HAUTE PRESSION

Publication

EP 2820338 A1 20150107 (EN)

Application

EP 13793591 A 20130301

Priority

- GB 201203649 A 20120301
- US 2013000057 W 20130301

Abstract (en)

[origin: WO2013176705A1] Well conduit system and methods using a first outer conduit wall and at least one second inner conduit wall positioned through a wellhead to define an annulus with radial loading surfaces extending across the annulus and radially between at least two of the conduit walls to form passageways through subterranean strata concentrically, wherein an inner pipe body of greater outer diameter is inserted into an outer pipe body of lesser inner diameter by elastically expanding the circumference of the outer pipe body and elastically compressing the circumference of the inner pipe body, using a hoop force exerted therebetween. Releasing the hoop force after insertion will release the elastic expansion and compression of the pipe bodies to abut the radial loading surfaces within the annulus for sharing elastic hoop stress resistance and thereby forming a greater effective wall thickness, capable of containing higher pressures than the conduit walls could otherwise bear.

IPC 8 full level

E21B 43/10 (2006.01); **E21B 17/00** (2006.01); **E21B 17/18** (2006.01); **E21B 23/12** (2006.01); **E21B 41/00** (2006.01); **E21B 43/14** (2006.01)

CPC (source: CN EP)

E21B 17/00 (2013.01 - EP); **E21B 17/18** (2013.01 - CN EP); **E21B 23/12** (2020.05 - CN EP); **E21B 33/047** (2013.01 - EP); **E21B 41/0035** (2013.01 - CN EP); **E21B 43/10** (2013.01 - EP); **E21B 43/14** (2013.01 - CN EP); **E21B 2200/01** (2020.05 - EP)

Cited by

US11460330B2; US11187044B2

Designated contracting state (EPC)

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2013176705 A1 20131128; CN 104271999 A 20150107; CN 104271999 B 20180202; EP 2820338 A1 20150107; EP 2820338 A4 20160803; EP 2820338 B1 20190911

DOCDB simple family (application)

US 2013000057 W 20130301; CN 201380023115 A 20130301; EP 13793591 A 20130301