

Title (en)

A CASING PIPE, A CASING PIPE ARRANGEMENT, A CASING SHOE, A TOOL ARRANGEMENT HAVING A CASING SHOE, AND A DRILL ARRANGEMENT

Title (de)

BOHRROHR, BOHRROHRANORDNUNG,BOHRROHRSCHUH, WERKZEUGANORDNUNG MIT EINEM BOHRROHRSCHUH UND BOHRANORDNUNG

Title (fr)

TUBE DE GAINAGE, ENSEMBLE DE TUBE DE GAINAGE, SABOT DE TUBAGE, AGENCEMENT D'OUTIL AYANT UN SABOT DE TUBAGE ET SYSTÈME DE FORAGE

Publication

**EP 3203009 A1 20170809 (EN)**

Application

**EP 16206335 A 20161222**

Priority

FI 20156016 A 20151229

Abstract (en)

The disclosure relates to a casing pipe with a first and a second attachment means being friction welded to the rest of the casing pipe. An outermost groove element (2a) of the first attachment co-operates with an innermost shoulder (3a) element of the second attachment means, while an innermost groove element (2c) of the first attachment means co-operates with an outermost shoulder (3c) element of the second attachment means. The groove elements (2a, 2b, 2c) on a first end portion have effective dimensions (Da, Db, Dc) which decrease towards the respective side end. The shoulder elements (3a, 3b, 3c) on a second end portion have effective dimensions (Da, Db, Dc) which increase towards respective side end. The grooves and shoulders may be provided as an opposite arrangement. A casing pipe with two first or second attachment means, and a drill arrangement are also disclosed.

IPC 8 full level

**E21B 17/046** (2006.01); **F16L 47/00** (2006.01)

CPC (source: EP US)

**E21B 17/046** (2013.01 - EP US)

Citation (applicant)

US 4779902 A 19881025 - LEE LEONARD E [US]

Citation (search report)

- [XA] US 2010308577 A1 20101209 - CHIN DAVID [US]
- [XA] GB 1421530 A 19760121 - PRYOR T G
- [A] WO 9943974 A1 19990902 - GRANT PRIDECO INC [US]

Cited by

CN109426754A; CN109426748A; CN109426752A; CN109426749A; CN109426751A

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3203009 A1 20170809**

DOCDB simple family (application)

**EP 16206335 A 20161222**