

Title (en)  
BOREHOLE CROSS-SECTION STEERING

Title (de)  
LENKUNG EINES BOHRLOCHQUERSCHNITTS

Title (fr)  
PILOTAGE PAR SECTION TRANSVERSALE DE TROU DE FORAGE

Publication  
**EP 3775467 A1 20210217 (EN)**

Application  
**EP 19777204 A 20190326**

Priority

- US 201815935316 A 20180326
- US 201815944605 A 20180403
- US 201816216966 A 20181211
- US 201816216999 A 20181211
- US 201816217019 A 20181211
- US 201916279168 A 20190219
- US 201916284275 A 20190225
- US 2019023954 W 20190326

Abstract (en)  
[origin: WO2019191013A1] A drill bit forming a borehole in the earth may be urged sideways, creating a curve in the borehole, by a cross-sectional shape of the borehole. For example, a borehole with a cross-sectional shape comprising two circular arcs of distinct radii, one larger and one smaller than a gauge of the drill bit, may push the drill bit away from the smaller circular arc and into the larger circular arc. Forming a borehole with such circular arcs may be accomplished by extending a cutting element from a side of the drill bit for only a portion of a full rotation of the drill bit. The radii and angular ranges occupied by these circular arcs may be adjusted by altering the timing of extension and retraction of the extendable cutting element.

IPC 8 full level  
**E21B 10/62** (2006.01); **E21B 10/32** (2006.01); **E21B 10/55** (2006.01)

CPC (source: EP RU US)  
**E21B 7/04** (2013.01 - RU); **E21B 7/064** (2013.01 - EP US); **E21B 10/62** (2013.01 - EP RU); **E21B 10/32** (2013.01 - EP RU US)

Designated contracting state (EPC)  
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Designated extension state (EPC)  
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DOCDB simple family (publication)  
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