

Title (en)  
Flexible Drill Shaft

Title (de)  
Flexible Bohrwelle

Title (fr)  
Tige de foret flexible

Publication  
**EP 1983148 B1 20110406 (EN)**

Application  
**EP 07106674 A 20070420**

Priority  
EP 07106674 A 20070420

Abstract (en)  
[origin: EP1983148A1] A flexible drill shaft for drilling lateral boreholes comprising: a helical outer wire coil spring; and at least one inner helical wire coil spring residing concentrically within the outer coil spring, with the coils of adjacent springs having an opposite pitch; wherein the wire forming each helical spring has a cross section such that when the drill shaft is in a straight alignment there is planar contact between adjacent coils of the spring. There may be grooves (3) and ridges (2) on the contact surface of the coils.

IPC 8 full level  
**E21B 7/06** (2006.01); **E21B 17/20** (2006.01); **E21B 17/22** (2006.01)

CPC (source: EP US)  
**E21B 7/06** (2013.01 - EP US); **E21B 17/20** (2013.01 - EP US); **E21B 17/22** (2013.01 - EP US)

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