

Title (en)  
Drilling device and method for creating a vertical borehole

Title (de)  
Bohrgerät und Verfahren zum Erstellen einer vertikalen Bohrung

Title (fr)  
Dispositif et procédé pour créer un forage vertical

Publication  
**EP 2597249 B1 20140910 (DE)**

Application  
**EP 11009332 A 20111124**

Priority  
EP 11009332 A 20111124

Abstract (en)  
[origin: EP2597249A1] The drilling equipment has a base main portion whose rear side is arranged with a lifting mechanism (18) for suspending the equipment in the hole, and an eccentric cam axle (22) rotatably mounted in an application unit mounted on an end face of the base main portion eccentric to the central axis (11) of base main portion and circumferentially about the central axis. A drive unit rotationally drives the application unit about cam axle. The application unit is disc-shaped such that the cam axle is angled at an acute angle to the axis of hole and/or the central axis. An independent claim is included for a method of forming vertical drill hole.

IPC 8 full level  
**E21B 7/20** (2006.01); **E21B 10/32** (2006.01); **E21B 10/66** (2006.01)

CPC (source: EP)  
**E21B 7/208** (2013.01); **E21B 10/66** (2013.01)

Cited by  
US10934779B2; WO2018114230A1; CN115210429A; DE102019120019A1; EP3862528A1; EP3336301A1; CN110062834A; KR20190085034A; WO2021156049A1; WO2021013838A2; WO2021013846A2

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**EP 2597249 A1 20130529**; **EP 2597249 B1 20140910**; CA 2793583 A1 20130524; HK 1180749 A1 20131025; MY 173700 A 20200217; SG 190517 A1 20130628

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**EP 11009332 A 20111124**; CA 2793583 A 20121026; HK 13107771 A 20130703; MY PI2012005038 A 20121122; SG 2012080719 A 20121101