

Title (en)

METHOD AND APPARATUS FOR DRILLING

Publication

**EP 0095134 B1 19870708 (DE)**

Application

**EP 83104876 A 19830518**

Priority

DE 3219362 A 19820522

Abstract (en)

[origin: US4548282A] A method of and apparatus for sinking essentially vertical bores, in particular large-hole bores, shafts or the like, the bore direction being pre-determined for a bore head or the like, rotatable by means of a set of bore rods, using a device which may be fixed with respect to the borehole wall after a bore section has been bored, wherein the device is released, the bore head is moved in a stationary state into a position suspended on the bore rods and then the direction is determined for the next bore section, the diameter of the bore head for determining the direction of the next bore section being changed from a relatively larger to a relatively smaller size.

IPC 1-7

**E21B 7/10**; **E21B 7/28**; **E21B 10/32**

IPC 8 full level

**E21B 7/06** (2006.01); **E21B 7/10** (2006.01); **E21B 7/28** (2006.01); **E21B 10/32** (2006.01); **E21B 10/34** (2006.01); **E21B 17/10** (2006.01)

CPC (source: EP US)

**E21B 7/062** (2013.01 - EP US); **E21B 7/10** (2013.01 - EP US); **E21B 7/28** (2013.01 - EP US); **E21B 17/1014** (2013.01 - EP US); **E21B 10/345** (2013.01 - EP US)

Cited by

EP0459008A3; EP0524042A1; FR2679293A1; US5310012A; WO8902023A1

Designated contracting state (EPC)

CH DE FR GB IT LI SE

DOCDB simple family (publication)

**DE 3219362 C1 19830421**; AU 1468983 A 19831124; AU 559712 B2 19870319; DE 3372391 D1 19870813; EP 0095134 A2 19831130; EP 0095134 A3 19850313; EP 0095134 B1 19870708; JP S58210300 A 19831207; US 4548282 A 19851022; ZA 833620 B 19840725

DOCDB simple family (application)

**DE 3219362 A 19820522**; AU 1468983 A 19830519; DE 3372391 T 19830518; EP 83104876 A 19830518; JP 8776683 A 19830520; US 49550183 A 19830517; ZA 833620 A 19830519