

Title (en)

Boring ram with path control

Title (de)

Rammborhrgerät mit Laufüberwachung

Title (fr)

Mouton de forage avec surveillance de trajectoire

Publication

EP 0846834 A3 19990804 (DE)

Application

EP 97120987 A 19971128

Priority

DE 19650271 A 19961204

Abstract (en)

[origin: EP0846834A2] The impact driven borer has a reciprocating piston (3) which forces the head (2) of the borer through the ground. The borer is connected to a supply line via a flexible joint which has a ring shaped space for a transmitter (11) for locating the head and steering the borer. The ring shaped space is under a gap between the back of the borer housing and the front of the sheath protecting the supply line. The transmitter is embedded in plastics or silicone rubber. The transmitter components are arranged side by side in the cylindrical space to minimise axial length.

IPC 1-7

E21B 4/14; **E21B 47/01**

IPC 8 full level

E21B 4/14 (2006.01); **E21B 47/01** (2012.01)

CPC (source: EP US)

E21B 4/145 (2013.01 - EP US); **E21B 47/017** (2020.05 - EP US)

Citation (search report)

- [X] EP 0703345 A2 19960327 - TERRA AG TIEFBAUTECHNIK [CH]
- [X] DE 8804347 U1 19880601
- [X] EP 0343800 A2 19891129 - FLOWMOLE CORP [US]
- [X] US 5350254 A 19940927 - FISK ALLAN T [US], et al
- [A] EP 0357314 A2 19900307 - BRITISH GAS PLC [GB]
- [A] WO 9405941 A1 19940317 - FOSTER MILLER INC [US]

Cited by

FR2785945A1; GB2360307A; GB2360307B; WO0029718A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0846834 A2 19980610; **EP 0846834 A3 19990804**; CA 2223311 A1 19980604; DE 19650271 A1 19980610; DE 19650271 C2 19990415; US 6142244 A 20001107

DOCDB simple family (application)

EP 97120987 A 19971128; CA 2223311 A 19971202; DE 19650271 A 19961204; US 98233097 A 19971202