

Title (en)
Boring ram.

Title (de)
Rammbohrgerät.

Title (fr)
Mouton de forage.

Publication
EP 0377153 B1 19941214 (DE)

Application
EP 89123180 A 19891214

Priority
DE 3900122 A 19890104

Abstract (en)
[origin: EP0377153A2] In a self-driven boring ram (1) with a tubular housing (2), a percussion tip (5) and a transmitter (9; 11) for monitoring the running direction, the directional stability can be improved in a simple manner by the boring ram being provided with a transmitter (9; 11) arranged at the front as far as possible in the driving direction (7). <IMAGE>

IPC 1-7
E21B 7/26; E21B 47/022; E21B 47/12; E21B 7/06

IPC 8 full level
E21B 11/02 (2006.01); **E21B 7/06** (2006.01); **E21B 7/26** (2006.01); **E21B 47/022** (2012.01); **E21B 47/12** (2012.01); **F16L 1/024** (2006.01)

CPC (source: EP US)
E21B 4/145 (2013.01 - EP); **E21B 7/068** (2013.01 - EP); **E21B 7/267** (2020.05 - EP US); **E21B 47/0232** (2020.05 - EP);
E21B 47/13 (2020.05 - EP)

Designated contracting state (EPC)
BE CH FR GB IT LI NL

DOCDB simple family (publication)
EP 0377153 A2 19900711; EP 0377153 A3 19910116; EP 0377153 B1 19941214; DE 3900122 A1 19900705; DE 3900122 C2 19901108;
DE 3900122 C3 19940224; JP 2707518 B2 19980128; JP H02213585 A 19900824

DOCDB simple family (application)
EP 89123180 A 19891214; DE 3900122 A 19890104; JP 33616989 A 19891225