

Title (en)  
Self-propelled boring ram

Title (de)  
Selbstgetriebenes Rammbohrgerät

Title (fr)  
Mouton de forage autopropulsé

Publication  
**EP 0789129 A3 19990714 (DE)**

Application  
**EP 96113139 A 19960816**

Priority  
DE 19530972 A 19950823

Abstract (en)  
[origin: US5960892A] The invention relates to an automatically driven pile-driver drilling device for drilling into the earth with a percussion piston moving axially inside a casing, driven by a pressure medium and changeable from a forward stroke to a backstroke, with a working space having radial control openings, a guide pipe with radial control openings extending into the working space and forming a rigid part of the housing, and a control box guided into an annular chamber of the guide tube and axially adjustable in a spring-pneumatic manner.

IPC 1-7  
**E21B 4/14**

IPC 8 full level  
**E21B 4/14** (2006.01)

CPC (source: EP US)  
**E21B 4/145** (2013.01 - EP US)

Citation (search report)

- [X] US 4683960 A 19870804 - KOSTYLEV ALEXANDR D [SU], et al
- [A] US 3744576 A 19730710 - SUDNISHNIKOV B, et al
- [A] US 4295533 A 19811020 - SCHMIDT PAUL
- [AD] EP 0484839 A2 19920513 - CHARLES MACHINE WORKS [US]

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

DOCDB simple family (publication)  
**US 5960892 A 19991005**; AT E227803 T1 20021115; DE 19530972 A1 19970227; DE 19530972 C2 19991202; DE 59609869 D1 20021219; EP 0789129 A2 19970813; EP 0789129 A3 19990714; EP 0789129 B1 20021113; JP H09165986 A 19970624

DOCDB simple family (application)  
**US 69741096 A 19960823**; AT 96113139 T 19960816; DE 19530972 A 19950823; DE 59609869 T 19960816; EP 96113139 A 19960816; JP 24103496 A 19960823