

Title (en)
Multiple head drilling unit for loose soil drill

Title (de)
Mehrfachbohrkopfeinheit für lockeren Untergrund

Title (fr)
Dispositif de forage à plusieurs têtes dans un sol meuble

Publication
EP 0893570 A1 19990127 (EN)

Application
EP 98830409 A 19980703

Priority
IT AN970037 U 19970711

Abstract (en)
This invention concerns a multiple head drilling unit for loose soil drills characterised in that its drilling heads are mounted parallel and close to each other on a common sliding trolley on a single rail. <IMAGE>

IPC 1-7
E21B 7/00; E21B 7/18; E21D 9/04; E21D 9/10

IPC 8 full level
E21B 7/00 (2006.01); **E21B 7/18** (2006.01); **E21D 9/04** (2006.01); **E21D 9/10** (2006.01)

CPC (source: EP)
E21B 7/002 (2013.01); **E21B 7/18** (2013.01); **E21D 9/04** (2013.01); **E21D 9/1066** (2013.01)

Citation (search report)

- [A] GB 2196276 A 19880427 - MCGREGOR
- [A] DE 826896 C 19520107 - FRIED KRUPP BERGWERKE ESSEN
- [A] US 5575345 A 19961119 - SHIBASAKI MITSUHIRO [JP], et al
- [A] DE 3041666 A1 19820609 - FISCHER ADOLF
- [A] US 4681170 A 19870721 - OHI TOSHIO [JP]
- [A] FR 2623242 A1 19890519 - CONTANT PAUL [FR]
- [A] EP 030803 A2 19890322 - MANCHAK FRANK

Cited by
NL1012505C2; NL1016952C2; NL1016917C2; US6385868B2; WO0102692A1

Designated contracting state (EPC)
BE DE ES FR GB IT NL SE

DOCDB simple family (publication)
EP 0893570 A1 19990127; IT 243298 Y1 20020304; IT AN970037 U1 19990111

DOCDB simple family (application)
EP 98830409 A 19980703; IT AN970037 U 19970711