

Title (en)
Tophole drill apparatus

Title (de)
Stichloch-Bohrmaschine

Title (fr)
Dispositif de perçage d'un trou de coulée

Publication
EP 0791661 A3 19971210 (DE)

Application
EP 97102777 A 19970220

Priority
LU 88718 A 19960221

Abstract (en)
[origin: EP0791661A2] The machine incorporates a carriage with a protective shield (26) at its front end, and a separate guide mechanism for the drill (16), as well as drive means for moving the guide mechanism between working and rest positions. With the drill at rest, the guide mechanism is in a protected position. The machine comprises a) the drill guide mechanism and the drive means are accommodated in a compact, detachable cassette (34) suspended at the front end of the carriage; b) the protective shield (26) is suspended in front of the cassette (34), and is provided with an opening (32) for the drill (16).

IPC 1-7
C21B 7/12

IPC 8 full level
C21B 7/12 (2006.01)

CPC (source: EP US)
C21B 7/12 (2013.01 - EP US)

Citation (search report)

- [AD] EP 0519397 A1 19921223 - NIPPON STEEL CORP [JP], et al
- [A] US 4431171 A 19840214 - FOSTER DAVID W [US]
- [A] US 3190629 A 19650622

Designated contracting state (EPC)
DE GB IT

DOCDB simple family (publication)
EP 0791661 A2 19970827; EP 0791661 A3 19971210; EP 0791661 B1 20011031; DE 59705123 D1 20011206; LU 88718 A1 19970821; US 5888448 A 19990330

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EP 97102777 A 19970220; DE 59705123 T 19970220; LU 88718 A 19960221; US 80042497 A 19970214