

Title (en)

Drilling rig with a tool cartridge

Title (de)

Bohrgestell mit Bohrwerkzeugmagazin

Title (fr)

Plate-forme de forage avec un magasin d'outils

Publication

**EP 1640557 B1 20090318 (DE)**

Application

**EP 05015710 A 20050720**

Priority

DE 102004045404 A 20040918

Abstract (en)

[origin: EP1640557A1] An oil drilling rig is fitted with a swiveling magazine on which different types of bit, e.g. tricone bits or hammer bits (27), are stored. The bits are fitted with threaded adapters which allow them to be attached to the drill string and held by a clamp system (29, 30).

IPC 8 full level

**E21B 19/14** (2006.01); **E21B 19/08** (2006.01); **E21B 19/18** (2006.01)

CPC (source: EP US)

**E21B 19/146** (2013.01 - EP US); **E21B 19/18** (2013.01 - EP US)

Citation (examination)

US 3994350 A 19761130 - SMITH JACK D, et al

Cited by

EP2093373A1; CN106223875A; CN107905745A

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DOCDB simple family (publication)

**EP 1640557 A1 20060329**; **EP 1640557 B1 20090318**; AT E426083 T1 20090415; CN 1749526 A 20060322; CN 1749526 B 20111123; DE 102004045404 A1 20060330; DE 502005006865 D1 20090430; US 2006162963 A1 20060727; US 7631704 B2 20091215

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**EP 05015710 A 20050720**; AT 05015710 T 20050720; CN 200510103884 A 20050916; DE 102004045404 A 20040918; DE 502005006865 T 20050720; US 35327806 A 20060215