

Title (en)

Carousel rod loader.

Title (de)

Gestängeladevorrichtung mit Drehgestell.

Title (fr)

Dispositif d'emmagasinage de tiges à carrousel.

Publication

EP 0182500 A1 19860528 (EN)

Application

EP 85307495 A 19851017

Priority

CA 465725 A 19841018

Abstract (en)

A fully self-contained drill rod loader is disclosed. The loader stores drill rod in a carousel (24). A first member (38), includes an arm (40) that is rotatable between a vertical position (as shown) and a horizontal position in which the arm lies alongside a slot (32) in the carousel (24) and can receive a rod from the carousel. The rod is grasped by a clamp (42) on the and the arm is rotated to its vertical position where it hands the rod onto a clamp (62) secured on a second arm (58) which is rotatable about a vertical axis (68) to position the rod on the drill (12). By reversing the movement, drill rods can be taken from the drill (12) and returned to the carousel (24).

IPC 1-7

E21B 19/15; **E21B 19/20**; **E21B 19/10**

IPC 8 full level

E21C 33/00 (2006.01); **E21B 19/10** (2006.01); **E21B 19/14** (2006.01); **E21B 19/15** (2006.01); **E21B 19/20** (2006.01)

CPC (source: EP US)

E21B 19/10 (2013.01 - EP US); **E21B 19/146** (2013.01 - EP); **E21B 19/15** (2013.01 - EP); **E21B 19/20** (2013.01 - EP)

Citation (search report)

- [A] US 4445579 A 19840501 - BELLO PAUL [US]
- [A] US 4335792 A 19820622 - MAHAN MICHAEL S
- [A] US 3177944 A 19650413 - KNIGHTS RICHARD N
- [A] US 3294185 A 19661227 - O'NEILL JOSEPH V, et al
- [A] US 3493061 A 19700203 - GYONGYOSI LASZLO

Cited by

EP2784264A1; US5931238A; CN109057730A; US8425171B2; US9759020B2; US6615932B2; US10641043B2; WO2023068975A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0182500 A1 19860528; AU 4841885 A 19860424; FI 853767 A0 19850930; FI 853767 L 19860419; JP S6198896 A 19860517; NO 854131 L 19860421

DOCDB simple family (application)

EP 85307495 A 19851017; AU 4841885 A 19851009; FI 853767 A 19850930; JP 23089885 A 19851016; NO 854131 A 19851017