

Title (en)

Device for coupling a drill rod for tapholes of shaft furnaces to the working tool of a drilling machine.

Title (de)

Vorrichtung zum Kuppeln einer Bohrstange für Schachtofenabstichlöcher mit dem Arbeitswerkzeug einer Bohrmaschine.

Title (fr)

Dispositif d'accouplement d'une tige de perçage du trou de coulée d'un four à cuve à l'outil de travail d'une machine de perçage.

Publication

**EP 0405207 B1 19940928 (FR)**

Application

**EP 90110951 A 19900609**

Priority

LU 87546 A 19890630

Abstract (en)

[origin: CA2017415A1] Device for coupling a rod for drilling the taphole of a shaft furnace to the working tool of a drilling machine The device includes a chuck (10) designed to be secured to the working tool and which has a front cavity (12) for receiving the end of the drilling rod (14), a gripping device for fastening the end of the said rod (14) in this cavity (12) and actuated by pneumatic or hydraulic pistons (22), sliding in a cylindrical chamber closed at the rear by a plug (30). In order to avoid rapid wear of this plug, a spring (32) is arranged between the said plug (30) and the adjacent face of the piston (22), this spring (30) being strong enough to keep the piston (22) away from the plug (30).

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); **Y10T 279/17179** (2015.01 - EP US); **Y10T 408/95** (2015.01 - EP US)

Cited by

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**EP 0405207 A2 19910102; EP 0405207 A3 19910911; EP 0405207 B1 19940928**; AT 403379 B 19980126; AT A103490 A 19970615; AU 5576290 A 19910103; AU 621487 B2 19920312; BR 9003153 A 19910827; CA 2017415 A1 19901231; DE 4016035 A1 19910103; ES 2062186 T3 19941216; JP 2805382 B2 19980930; JP H0339409 A 19910220; LU 87546 A1 19910218; US 5056968 A 19911015

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