

Title (en)

Method and apparatus for filling a drill string with a drilling fluid

Title (de)

Verfahren und Fülleinrichtung zum Auffüllen von Bohrzügen mit Bohrflüssigkeit

Title (fr)

Procédé et dispositif de remplissage d'un train de tiges de forage avec un fluide de forage

Publication

**EP 1632640 A1 20060308 (DE)**

Application

**EP 05006234 A 20050322**

Priority

DE 102004042956 A 20040902

Abstract (en)

An oil or gas drilling rig has a filling assembly to feed a drilling lubricant/coolant to a drill tip and comprising a cylinder (1) with a valve-controlled fluid inlet (3) and a piston chamber (5). The cylinder has an end-piece (2) with a link fitting to a drill rod drive. The cylinder further has a hollow cylindrical filling piston (9) delivering fluid to the drill string inside the chamber (5). The filling piston moves back and forth axially and has an outlet that is opened and closed by a piston valve (4) and regulates discharge of the drill fluid.

IPC 8 full level

**E21B 21/10** (2006.01)

CPC (source: EP)

**E21B 21/106** (2013.01)

Citation (search report)

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- [A] US 4962819 A 19901016 - BAILEY THOMAS F [US], et al

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