

Title (en)
Mast element for a drill

Title (de)
Mastelement für ein Bohrgerät

Title (fr)
Élément de mât pour un appareil de forage

Publication
EP 2520756 A1 20121107 (DE)

Application
EP 11003710 A 20110505

Priority
EP 11003710 A 20110505

Abstract (en)
The tower comprises two tower elements (30), in which one of the tower elements has a tower core (32) and a longitudinal guide (34), which is arranged for guiding a carriage along the tower element at the tower core. The tower core comprises a tubular body, which is made of a fiber composite material, particularly carbon fiber reinforced plastic. The other tower element is made of metal material and comprises another longitudinal guide. The tubular body comprises a circular ring shaped or rectangular cross-sectional profile. An independent claim is included for a drilling tool comprising a carrier vehicle.

Abstract (de)
Die Erfindung betrifft ein Mastelement für ein Bohrgerät mit einem Mastkern und mindestens einer Längsführung, welche zum Führen eines Schlittens entlang des Mastelementes an dem Mastkern angeordnet ist. Zur Verringerung der Kippgefahr ist es nach der Erfindung vorgesehen, dass der Mastkern einen Rohrkörper aufweist, welcher aus einem Faserverbundwerkstoff gebildet ist.

IPC 8 full level
E21B 15/00 (2006.01)

CPC (source: EP)
E21B 15/00 (2013.01)

Citation (search report)
• [X] US 2004151552 A1 20040805 - BARATTA ANTHONY [US]
• [A] WO 2007004969 A1 20070111 - ATLAS COPCO ROCK DRILLS AB [SE], et al
• [A] C.J. TANNER: "THE APPLICATION OF ADVANCED COMPOSITE MATERIALS TO PETROLEUM DRILLING STRUCTURE", IADC DRILLING TECHNOLOGY CONFERENCE, 16 March 1977 (1977-03-16) - 18 March 1977 (1977-03-18), New Orleans U.S.A., pages 1 - 11, XP009156731

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EP4092199A1; WO2022243002A1; CN111927329A; EP4092195A1; WO2022243001A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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