

Title (en)

Hammer bearing structure with exchange apparatus for hydraulic tools

Title (de)

Mätkler mit Wechsellvorrichtung für hydraulische Arbeitsgeräte

Title (fr)

Sonnette de battage équipée d'un dispositif de remplacement d'outils hydrauliques

Publication

EP 1193349 B2 20090128 (DE)

Application

EP 01118086 A 20010726

Priority

DE 10048257 A 20000929

Abstract (en)

[origin: EP1193349A2] The adapter has main and guide carriage, connected by a coupling device and moving on a guide rail. The main carriage has a panel with pref. several hydraulically charged coupling plugs on the side facing the guide carriage. On the other side, the plugs are connected to hydraulic feed lines on the main carriage. The guide carriage has a coupling block with coupling sleeves for the plugs, on the side facing the main carriage. On the side of the coupling block facing the working appliance, the sleeves are connected to hydraulic hoses for the appliance.

IPC 8 full level

E02D 7/00 (2006.01); **E02D 7/10** (2006.01); **E21B 15/00** (2006.01); **E21B 19/08** (2006.01)

CPC (source: EP US)

E02D 7/10 (2013.01 - EP); **E02F 3/3654** (2013.01 - EP); **E21B 15/00** (2013.01 - EP); **E21B 19/08** (2013.01 - EP US)

Citation (opposition)

Opponent :

- US 4371041 A 19830201 - BECKER FLOYD W [CA], et al
- US 35766218 A
- DE 4222193 A1 19930114 - FASTER SRL [IT]
- US 4993564 A 19910219 - BLATT JOHN A [US]
- DE 69000781 A
- DE 69717080 A
- US 4742470 A 19880503 - JUENGEL RICHARD O [US]
- DE 19804740 A

Cited by

DE102014119748A1; US9873998B2; EP2902582B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1193349 A2 20020403; **EP 1193349 A3 20030319**; **EP 1193349 B1 20040929**; **EP 1193349 B2 20090128**; AT E278070 T1 20041015; DE 10048257 A1 20020411; DE 50103848 D1 20041104; ES 2230220 T3 20050501; ES 2230220 T5 20090619

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