

Title (en)

GRANULAR PARTICLE GRIPPING SURFACE

Title (de)

GREIFOBERFLÄCHE MIT KÖRNIGEN TEILCHEN

Title (fr)

SURFACE DE PREHENSION A PARTICULES GRANULEUSES

Publication

EP 1015184 B1 20031112 (EN)

Application

EP 97941657 A 19970915

Priority

- US 9716443 W 19970915
- US 71344496 A 19960913

Abstract (en)

[origin: WO9810899A1] This invention provides an improved apparatus for gripping oil field tubular members (10). The apparatus has a gripping surface (53) which comprises a backing surface (5) adapted to contact an oil field tubular member (10) where the backing surface (5) is attachable to the apparatus for gripping oil field tubular members (10). The apparatus further has a granulated particle coating (7) formed on this backing surface (5). In a preferred embodiment, the gripping surface (4) will include a refractory metal carbide selected from the group consisting of the carbides of silicon, tungsten, molybdenum, chromium, tantalum, niobium, vanadium, titanium, zirconium, and boron.

IPC 1-7

E21B 19/16; **B25B 13/50**; **E21B 33/129**; **E21B 23/01**; **B25B 1/24**

IPC 8 full level

B25B 1/24 (2006.01); **B25B 13/50** (2006.01); **E21B 19/16** (2006.01); **E21B 23/01** (2006.01); **E21B 33/129** (2006.01)

CPC (source: EP)

B25B 1/241 (2013.01); **B25B 13/5016** (2013.01); **B25B 13/5083** (2013.01); **E21B 19/164** (2013.01); **E21B 23/01** (2013.01); **E21B 33/1293** (2013.01)

Cited by

WO2012010466A1

Designated contracting state (EPC)

DE GB

DOCDB simple family (publication)

WO 9810899 A1 19980319; CA 2266367 A1 19980319; CA 2266367 C 20081104; DE 69726196 D1 20031218; EP 1015184 A1 20000705; EP 1015184 A4 20000809; EP 1015184 B1 20031112

DOCDB simple family (application)

US 9716443 W 19970915; CA 2266367 A 19970915; DE 69726196 T 19970915; EP 97941657 A 19970915