

Title (en)
DEVICE FOR HANDLING WELL CASINGS

Publication
EP 0171144 B1 19891018 (EN)

Application
EP 85304072 A 19850610

Priority
US 63493484 A 19840727

Abstract (en)
[origin: EP0171144A1] A device (1) for use in handling casing (20) in a rotary drilling rig configuration comprises a first member (30) attachable to a lifting block (10), a second member (31) to which the casing (20) can be connected and a bellows (40) which is disposed between the first member (30) and the second member (31) and can be inflated via an air line (41). The casing (20) is positioned directly above the assembled casing string (21). In operation the bellows (40) is pressurized until the maximum pressure permitted by a relief valve (not shown) is attained. The rig hand may then manually adjust the pressure downward until the preferred pressure is reached. Because of the <<lift>> provided by the bellows (40), that preferred pressure will be characterized by the seemingly weightless suspension of the casing (20) above the box (22) and the relative ease with which the casing (20) may be manually lowered by the rig hand under the increased control provided by the device, so that the threads of the pin (23) and box (22) may be properly aligned and connected with damage to neither. If the weight of each casing (20) is substantially the same weight as the prior casing, the rig hand may simply adjust the adjustable pressure relief valve to vent at a pressure corresponding to the bellows being nearly fully extended with the load applied.

IPC 1-7
B66C 13/04; **E21B 19/06**; **E21B 19/15**

IPC 8 full level
B66C 13/04 (2006.01); **E21B 19/06** (2006.01); **E21B 19/08** (2006.01); **E21B 19/15** (2006.01); **E21B 19/16** (2006.01)

CPC (source: EP)
B66C 13/04 (2013.01); **E21B 19/06** (2013.01); **E21B 19/155** (2013.01); **E21B 19/16** (2013.01)

Cited by
WO9807954A1; US6073699A; US6056060A; US6000472A; US6070670A; AU741280B2; US6039118A; US5850877A; AU727203B2; US6981547B2; US7225523B2; US10138690B2; US6705405B1; US6622796B1; WO0011309A1; WO9934088A1; WO9945230A1; US6976298B1; US8100187B2; US6722443B1; US6896057B2; US7140446B2; US6527047B1; US6688398B2; US7021374B2; US7107663B2; US6725938B1; US8327928B2; WO0039430A1; WO9958810A3; US7240928B2; US6742596B2; US8136216B2

Designated contracting state (EPC)
DE FR GB IT NL

DOCDB simple family (publication)
EP 0171144 A1 19860212; **EP 0171144 B1 19891018**; CA 1239634 A 19880726; DE 3573820 D1 19891123; JP S6138089 A 19860224; NO 176287 B 19941128; NO 176287 C 19950308; NO 852336 L 19860128

DOCDB simple family (application)
EP 85304072 A 19850610; CA 478177 A 19850402; DE 3573820 T 19850610; JP 10807885 A 19850520; NO 852336 A 19850610