

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
19 January 2006 (19.01.2006)

PCT

(10) International Publication Number
WO 2006/007552 A1

(51) International Patent Classification⁷: **E21B 19/22**

(21) International Application Number:
PCT/US2005/023498

(22) International Filing Date: 1 July 2005 (01.07.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/584,616 1 July 2004 (01.07.2004) US

(71) Applicants and

(72) Inventors: **BORST, Terence** [GB/OM]; P.O. Box 795,
Postcode 116, Mina Al Fahal (OM). **PERIO, Dudley, J., Jr.** [US/US]; 3613 Apache Forest Drive, Austin, TX 78739
(US).

(74) Agent: **DEAVER, Albert, B., Jr.**; Locke Liddell & Sapp
LLP, 600 Travis, Suite 3400, Houston, TX 77002 (US).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ,
OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL,
SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
VN, YU, ZA, ZM, ZW.

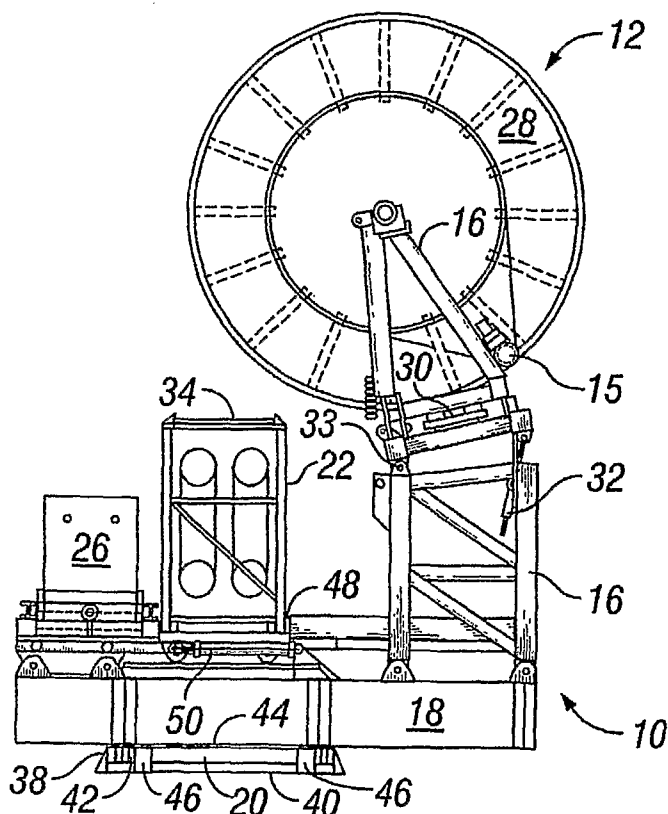
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT,
RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND APPARATUS FOR DRILLING AND SERVICING SUBTERRANEAN WELLS WITH ROTATING
COILED TUBING



(57) Abstract: A system is provided for drilling and/or
servicing a well bore using continuous lengths of coiled
tubing (14) in which a turntable assembly (18) rotates a
coiled tubing reel (28) assembly and a counter balance
system (26) about the well bore such that the coiled tub-
ing is rotated while in the wellbore. A coiled tubing in-
jector (22) may be provided on a separate turntable as-
sembly or on the same turntable assembly as the reel as-
sembly.