Title (en)

METHODS AND APPARATUS FOR A SUBSEA TIE BACK

Title (de)

VERFAHREN UND VORRICHTUNG FÜR EINE UNTERWASSER-R CKHALTUNG

Title (fr)

PROCEDES ET DISPOSITIF POUR RACCORDEMENT SOUS-MARIN

Publication

EP 1558834 A1 20050803 (EN)

Application

EP 02807989 A 20021010

Priority

US 0232513 W 20021010

Abstract (en)

[origin: CA2501315A1] A flow assurance system includes an inner pipe (70) disposed within an outer pipe (50) to assure flow through the outer pipe (50). During installation an d relative axial movement with the outer pipe (50), the inner pipe (70) is nearly neutrally buoyant or fully neutrally buoyant in the fluids of the out er pipe (50) and may extend partially or completely through the outer pipe (50) . The inner pipe (70) may be anchored at one end within the outer pipe (50). T he inner pipe (70) is preferably composite coiled tubing that is installed usin g a propulsion system. The system may allow fluids to flow through the inner pipe (70) and commingle with the fluids in the outer pipe (50) or may flow fluids through the inner pipe (70) to the exterior of the outer pipe (50). H ot fluids may pass through the inner pipe (70) to maintain the temperature of t he fluids flowing through the outer pipe (50) and chemicals may flow through th e inner pipe (70) to condition the fluids in the outer pipe (50). Tools may be attached to the end of the inner pipe (70) for conducting flow assurance operations within the outer pipe (50).

IPC 1-7

E21B 36/00; E21B 19/22

IPC 8 full level

E21B 36/00 (2006.01); **E21B 17/18** (2006.01); **E21B 19/22** (2006.01); **E21B 37/00** (2006.01); **E21B 43/017** (2006.01); **E21B 43/16** (2006.01)

IPC 8 main group level

E21B (2006.01)

CPC (source: EP US)

E21B 17/18 (2013.01 - EP); **E21B 37/00** (2013.01 - EP); **E21B 43/017** (2013.01 - EP US)

Designated contracting state (EPC)

DK FR GB IT NL

DOCDB simple family (publication)

AU 2002356558 A1 20040504; BR 0215902 A 20050809; CA 2501315 A1 20040422; EP 1558834 A1 20050803; EP 1558834 A4 20060628; MX PA05003789 A 20050818; NO 20052257 D0 20050509; NO 20052257 L 20050711

DOCDB simple family (application)

AU 2002356558 A 20021010; BR 0215902 A 20021010; CA 2501315 A 20021010; EP 02807989 A 20021010; MX PA05003789 A 20021010; NO 20052257 A 20050509