

Title (en)

Monitoring the operation of a subsea hydrocarbon production control system

Title (de)

Betriebsüberwachung eines Unterwasser-Kohlenwasserstoff-Produktionssteuerungssystems

Title (fr)

Surveillance du fonctionnement d'un système sous-marin de production d'hydrocarbures

Publication

EP 2474704 A1 20120711 (EN)

Application

EP 11150315 A 20110106

Priority

EP 11150315 A 20110106

Abstract (en)

A method of monitoring the operation of a subsea hydrocarbon production control system comprises monitoring at least one subsea device of the system and, if the device fails to a fail-safe condition, sending an indication of that by wireless.

IPC 8 full level

E21B 33/035 (2006.01)

CPC (source: EP US)

E21B 33/0355 (2013.01 - EP US)

Citation (applicant)

- WO 2009122168 A1 20091008 - VETCO GRAY CONTROLS LTD [GB], et al
- WO 2005078233 A1 20050825 - FMC KONGSBERG SUBSEA AS [NO], et al
- US 2006159524 A1 20060720 - THOMPSON JAMES N [US], et al
- US 2003098799 A1 20030529 - ZIMMERMAN THOMAS H [US]
- US 2004124994 A1 20040701 - OPPELT JOACHIM [DE]
- US 6798338 B1 20040928 - LAYTON JAMES EDWARD [US]
- GB 2377131 A 20021231 - SCHLUMBERGER HOLDINGS [VG]
- WO 2006134331 A1 20061221 - WIRELESS FIBRE SYSTEMS LTD [GB], et al
- GB 2163029 A 19860212 - RAYNOR PETER JAMES
- RAM SOMARAJU ET AL., FREQUENCY, TEMPERATURE AND SALINITY VARIATION OF THE PERMITTIVITY OF SEAWATER, vol. 54, no. 11, November 2006 (2006-11-01)
- IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, pages 3441 - 3448

Citation (search report)

- [Y] US 3416566 A 19681217 - ANDERSON CLIFFORD E
- [Y] US 2009212969 A1 20090827 - VOSS ROBERT K [GB]
- [AD] WO 2009122168 A1 20091008 - VETCO GRAY CONTROLS LTD [GB], et al

Cited by

CN118275153A; US10221680B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2474704 A1 20120711; EP 2474704 B1 20130904; AU 2011265528 A1 20120726; AU 2011265528 B2 20170202; BR 102012000058 A2 20150602; BR 102012000058 A8 20160412; BR 102012000058 B1 20200331; CN 102591274 A 20120718; MY 152950 A 20141215; SG 182906 A1 20120830

DOCDB simple family (application)

EP 11150315 A 20110106; AU 2011265528 A 20111223; BR 102012000058 A 20120103; CN 201210014169 A 20120106; MY PI2011006200 A 20111221; SG 2012000188 A 20120103