

Title (en)  
SYSTEMS AND METHODS FOR STARTING, RESTARTING, MONITORING AND INCREASING PERFORMANCE OF A PRODUCTION AND/OR INJECTION SYSTEM

Title (de)  
SYSTEME UND VERFAHREN ZUM STARTEN, ERNEUTEN STARTEN, ÜBERWACHEN UND STEIGERN DER LEISTUNG EINES HERSTELLUNGS- UND/ODER INJEKTIONSSYSTEMS

Title (fr)  
SYSTÈMES ET PROCÉDÉS DE DÉMARRAGE, REDÉMARRAGE, DE SURVEILLANCE ET D'AMÉLIORATION DES PERFORMANCES DE PRODUCTION ET/OU SYSTÈME D'INJECTION

Publication  
**EP 3336303 A2 20180620 (EN)**

Application  
**EP 17207246 A 20171214**

Priority  
US 201615381368 A 20161216

Abstract (en)  
A system (10) includes a distributed control system (20) and a subsea tree (56) that includes subsea tree chokes (136) and a subsea control module (38) communicatively coupled to flow control valves (126). The distributed control system (20) communicatively couples to the subsea control module (38), is located at a surface level, and includes processors (27) that send a first instruction to the flow control valves (126) to adjust hydrocarbon production flow when water or gas cut is above a threshold. The processors (27) also send a second instruction to the subsea tree chokes to adjust the flow of the production when a quality of commingling of the production flow with additional production flows is less than a threshold, an arrival pressure is less than a threshold, or an arrival flow rate is less than a threshold. The processors further continue the production of the fluids with current settings when a production rate is above a production rate threshold.

IPC 8 full level  
**E21B 33/035** (2006.01)

CPC (source: EP US)  
**E21B 33/0355** (2013.01 - EP US); **E21B 34/025** (2020.05 - EP US); **E21B 34/04** (2013.01 - EP US); **E21B 34/06** (2013.01 - US); **E21B 41/0007** (2013.01 - US); **E21B 43/01** (2013.01 - EP US); **E21B 43/12** (2013.01 - EP US); **E21B 43/168** (2013.01 - EP US); **E21B 47/06** (2013.01 - US); **E21B 47/07** (2020.05 - US); **E21B 47/10** (2013.01 - EP US); **E21B 49/08** (2013.01 - US); **E21B 43/14** (2013.01 - US); **E21B 43/20** (2013.01 - US); **E21B 43/24** (2013.01 - US)

Cited by  
CN109240186A; CN111075411A; US2020295545A1; US11220905B2; US11333010B2; US12015254B2; WO2019064008A1; US11414954B2; WO2021231756A1

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 3336303 A2 20180620; EP 3336303 A3 20180912; US 2018171759 A1 20180621**

DOCDB simple family (application)  
**EP 17207246 A 20171214; US 201615381368 A 20161216**