

Title (en)

Thermal buffering of downhole equipment with phase change material

Title (de)

Wärmpufferung von Bohrlochausrüstung mit Speicherstoff

Title (fr)

Mise en mémoire tampon thermique d'équipement de trou de forage avec matériau de changement de phase

Publication

EP 2607620 A1 20130626 (EN)

Application

EP 11290600 A 20111222

Priority

EP 11290600 A 20111222

Abstract (en)

A downhole assembly may include a housing containing a heat-producing component in thermal communication with a thermal buffering component. The thermal buffering component includes a container having a phase change material disposed therein that is selected to have a phase change at or below a selected temperature.

IPC 8 full level

E21B 47/01 (2012.01)

CPC (source: EP US)

E21B 36/001 (2013.01 - EP US); **E21B 47/0175** (2020.05 - EP US)

Citation (search report)

- [X] US 2003085039 A1 20030508 - DIFOGGIO ROCCO [US]
- [X] US 6341498 B1 20020129 - DIFOGGIO ROCCO [US]
- [X] US 7440283 B1 20081021 - RAFIE SAEED [US]
- [X] WO 2006065559 A1 20060622 - HALLIBURTON ENERGY SERV INC [US], et al
- [X] US 2005005624 A1 20050113 - DIFOGGIO ROCCO [US], et al
- [X] US 2007095096 A1 20070503 - DIFOGGIO ROCCO [US], et al
- [X] EP 0129954 A1 19850102 - MOBIL OIL CORP [US]

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 2607620 A1 20130626; MX 2014007773 A 20140915; US 2015000913 A1 20150101; WO 2013096550 A1 20130627

DOCDB simple family (application)

EP 11290600 A 20111222; MX 2014007773 A 20121220; US 2012070806 W 20121220; US 201214366678 A 20121220