

Title (en)

Cooling system and method for a downhole tool

Title (de)

Kühlsystem und Verfahren für ein Bohrlochwerkzeug

Title (fr)

Système de refroidissement et procédé pour un outil de fond de trou

Publication

**EP 2740890 A1 20140611 (EN)**

Application

**EP 12306533 A 20121206**

Priority

EP 12306533 A 20121206

Abstract (en)

Present embodiments relate to systems and methods for providing cooling to temperature sensitive components 52 of a downhole tool with an intermittent power supply. To provide one example, a downhole tool may include a temperature sensitive component 52, an enclosure 54, a cooling unit 56, and a heat exchanger 58. The heat exchanger 58 may also disable heat transfer between the temperature sensitive component 52 and the cooling unit 56 when the cooling unit is not providing the active cooling.

IPC 8 full level

**E21B 47/01** (2012.01)

CPC (source: EP US)

**E21B 36/001** (2013.01 - US); **E21B 44/005** (2013.01 - US); **E21B 47/0175** (2020.05 - EP US)

Citation (search report)

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- [A] GB 2396203 A 20040616 - SCHLUMBERGER HOLDINGS [VG]
- [A] US 2008314638 A1 20081225 - KAUL ANMOL [US], et al
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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 2740890 A1 20140611**; **EP 2740890 B1 20170201**; US 2014158429 A1 20140612

DOCDB simple family (application)

**EP 12306533 A 20121206**; US 201314098437 A 20131205