

Title (en)

PROCESS AND MANUFACTURE OF LOW-DIMENSIONAL MATERIALS SUPPORTING BOTH SELF-THERMALIZATION AND SELF-LOCALIZATION

Title (de)

VERFAHREN UND HERSTELLUNG VON NIEDRIGDIMENSIONALEN MATERIALIEN MIT UNTERSTÜTZUNG SOWOHL DER SELBSTTHERMALISIERUNG ALS AUCH DER SELBSTLOKALISIERUNG

Title (fr)

TRAITEMENT ET FABRICATION DE MATÉRIAUX DE FAIBLES DIMENSIONS SUPPORTANT À LA FOIS L'AUTO-THERMALISATION ET L'AUTO-LOCALISATION

Publication

**EP 3549155 A2 20191009 (EN)**

Application

**EP 17899703 A 20171130**

Priority

- US 201762471815 P 20170315
- US 201762591848 P 20171129
- US 2017064020 W 20171130

Abstract (en)

[origin: WO2018164746A2] Various articles and devices can be manufactured to take advantage of a what is believed to be a novel thermodynamic cycle in which spontaneity is due to an intrinsic entropy equilibration. The novel thermodynamic cycle exploits the quantum phase transition between quantum thermalization and quantum localization. Preferred devices include a phonovoltaic cell, a rectifier and a conductor for use in an integrated circuit.

IPC 8 full level

**H01L 21/02** (2006.01); **H01L 21/033** (2006.01); **H01L 31/02** (2006.01); **H01L 31/0256** (2006.01); **H01L 31/0264** (2006.01); **H01L 31/036** (2006.01); **H01L 31/0368** (2006.01); **H01L 31/04** (2014.01); **H10N 99/00** (2023.01); **H10N 10/855** (2023.01)

CPC (source: EP IL KR US)

**H01L 29/267** (2013.01 - EP IL KR); **H01L 29/861** (2013.01 - EP IL KR); **H10N 10/855** (2023.02 - IL KR US); **H10N 10/8556** (2023.02 - US); **H10N 99/05** (2023.02 - EP IL KR); **H10N 10/855** (2023.02 - EP); **Y02E 10/50** (2013.01 - IL KR)

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)

**WO 2018164746 A2 20180913**; **WO 2018164746 A3 20181206**; CA 3045318 A1 20180913; CN 110431652 A 20191108; CN 110431652 B 20231229; EP 3549155 A2 20191009; EP 3549155 A4 20200930; IL 266966 A 20190731; IL 266966 B1 20231101; IL 266966 B2 20240301; JP 2020515057 A 20200521; JP 7250340 B2 20230403; KR 102373619 B1 20220315; KR 20190126765 A 20191112

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**US 2017064020 W 20171130**; CA 3045318 A 20171130; CN 201780084888 A 20171130; EP 17899703 A 20171130; IL 26696619 A 20190528; JP 2019548545 A 20171130; KR 20197018946 A 20171130