PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6353819

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
ROGERS CORPORATION	10/16/2020

RECEIVING PARTY DATA

Name:	JPMORGAN CHASE BANK, N.A., AS ADMINISTRATIVE AGENT
Street Address:	IL1-1145/54/63, P.O. BOX 6026
City:	CHICAGO
State/Country:	ILLINOIS
Postal Code:	60680-6026

PROPERTY NUMBERS Total: 87

Property Type	Number
Application Number:	15329072
Application Number:	15417881
Application Number:	15561272
Application Number:	15562713
Application Number:	15726904
Application Number:	15769410
Application Number:	15769437
Application Number:	15850466
Application Number:	15903204
Application Number:	15957043
Application Number:	15957078
Application Number:	15958508
Application Number:	16067181
Application Number:	16095776
Application Number:	16181415
Application Number:	16193339
Application Number:	16233496
Application Number:	16242551
Application Number:	16246880
Application Number:	16246886

Property Type	Number
Application Number:	16246892
Application Number:	16275420
Application Number:	16331211
Application Number:	16342682
Application Number:	16357929
Application Number:	16378676
Application Number:	16396943
Application Number:	16434502
Application Number:	16456092
Application Number:	16456190
Application Number:	16563041
Application Number:	16564626
Application Number:	16589766
Application Number:	16641067
Application Number:	16657054
Application Number:	16663443
Application Number:	16676736
Application Number:	16680610
Application Number:	16680727
Application Number:	16682035
Application Number:	16686442
Application Number:	16690855
Application Number:	16692149
Application Number:	16713538
Application Number:	16801476
Application Number:	16798809
Application Number:	16878855
Application Number:	63000857
Application Number:	62961265
Application Number:	62964749
Application Number:	16903597
Application Number:	16892566
Application Number:	16821446
Application Number:	16866842
Application Number:	16887320
Application Number:	62874567
Application Number:	16930907
Application Number:	62890636

Property Type	Number
Application Number:	62968174
Application Number:	62882681
Application Number:	16941707
Application Number:	62880278
Application Number:	16938396
Application Number:	62893872
Application Number:	17000610
Application Number:	62906206
Application Number:	62916425
Application Number:	62938983
Application Number:	62904903
Application Number:	62927783
Application Number:	62958644
Application Number:	62977904
Application Number:	62988664
Application Number:	62979526
Application Number:	62972116
Application Number:	63055660
Application Number:	62988662
Application Number:	63013652
Application Number:	63006976
Application Number:	63021295
Application Number:	63023303
Application Number:	63015917
Application Number:	63072349
Application Number:	16604732
Application Number:	16800528
Application Number:	63052575
Application Number:	15546891

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 3129932652
Email: heather.poitras@lw.com
Correspondent Name: HEATHER POITRAS
Address Line 1: 330 N WABASH AVENUE
Address Line 2: SUITE 2800
Address Line 4: CHICAGO, ILLINOIS 60611

ATTORNEY DOCKET NUMBER:	049067-0062 HP
NAME OF SUBMITTER:	HEATHER POITRAS
SIGNATURE:	/hp/
DATE SIGNED:	10/16/2020

Total Attachments: 9
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CONFIRMATORY GRANT OF SECURITY INTEREST IN UNITED STATES PATENTS

THIS CONFIRMATORY GRANT OF SECURITY INTEREST IN UNITED STATES PATENTS (as the same may be amended, restated, supplemented or otherwise modified from time to time, the "Confirmatory Grant") is made effective as of October 16, 2020 by and from ROGERS CORPORATION, a Massachusetts corporation ("Grantor") to and in favor of JPMORGAN CHASE BANK, N.A., for itself and as Administrative Agent for the Secured Parties (as defined in the Credit Agreement referenced below) (in such capacities, "Grantee").

WHEREAS, Grantor, the Lenders, Grantee and certain other parties have entered into a Fourth Amended and Restated Credit Agreement dated as of the date hereof (as may be amended, restated, supplemented or otherwise modified from time to time, the "Credit Agreement").

WHEREAS, Grantor and certain Subsidiaries of Grantor have guaranteed the repayment of the Secured Obligations pursuant to a Fourth Amended and Restated Guaranty dated as of the date hereof (as may be amended, restated, supplemented or otherwise modified from time to time).

WHEREAS, Grantor and certain Subsidiaries of Grantor have entered into a Fourth Amended and Restated Pledge and Security Agreement dated as of the date hereof (as may be amended, restated, supplemented or otherwise modified from time to time, the "Security Agreement").

WHEREAS, Grantor owns the patents listed on Exhibit A attached hereto (the "Patents"), which Patents are pending or registered with the United States Patent and Trademark Office.

WHEREAS, this Confirmatory Grant has been granted in conjunction with the security interest granted under the Security Agreement to Grantee for the benefit of the Secured Parties. The rights and remedies of Grantee with respect to the security interest granted herein are without prejudice to and are in addition to those set forth in the Security Agreement and the other Loan Documents, all terms and provisions of which are incorporated herein by reference. In the event that any provisions of this Confirmatory Grant are deemed to conflict with the Security Agreement, the provisions of the Security Agreement shall govern.

NOW, THEREFORE, in consideration of the mutual covenants and agreements set forth herein and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, it is hereby agreed that:

1) Definitions. All capitalized terms not defined herein shall have the respective meaning given to them in the Credit Agreement.

2) The Security Interest.

(a) This Confirmatory Grant is made to secure the satisfactory performance and payment of (i) all the Secured Obligations and (ii) all of the obligations and liabilities of the Subsidiary Guarantors under the Credit Agreement. Upon the payment in full of all Secured Obligations, Grantee shall promptly, upon such satisfaction, execute, acknowledge, and deliver to the Grantor all reasonably requested instruments in writing releasing the security interest in the Patents acquired under the Security Agreement and this Confirmatory Grant.

(b) Grantor hereby grants to Grantee a security interest in (1) all of Grantor's right, title and interest in and to the Patents now owned or from time to time after the date hereof owned or acquired by Grantor, together with (2) all proceeds of such Patents, (3) the goodwill associated with such Patents and (4) all causes of action arising prior to or after the date hereof for infringement of such Patents or unfair competition regarding the same.

3) Affirmation of Existing Security Interest. Grantor affirms its grant to Grantee of security interest in certain patents pursuant to the Existing Confirmatory Grants and agrees that such grants remain in full force and effect and are hereby ratified, reaffirmed and confirmed.

4) Counterparts. This Confirmatory Grant may be executed in any number of counterparts and by different parties in separate counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute one and the same agreement. Signature pages may be detached from multiple separate counterparts and attached to a single counterpart.

5) Governing Law. This Confirmatory Grant and the rights and obligations of the parties hereto shall be governed by, and construed and interpreted in accordance with, the law of the State of New York.

****

IN WITNESS WHEREOF, Grantor has executed this Confirmatory Grant effective as of the date first written above.

ROGERS CORPORATION

By: _____
Name: Michael M. Ludwig
Title: Senior Vice President, Chief Financial Officer and Treasurer

CONFIRMATORY GRANT OF SECURITY INTEREST
IN UNITED STATES PATENTS

Exhibit A – SCHEDULE OF PATENTS

Title	Application Number Application Date	Publication Number Publication Date	Owner
Co2 Z-type ferrite composite material for use in ultra-high frequency antennas	15329072 1/25/2017	US10468169 11/5/2019	ROGERS CORPORATION
Fluoropolymer composite film wrapped wires and cables	15417881 1/27/2017	US10259202 4/16/2019	ROGERS CORPORATION
DUAL TEMPERATURE CURABLE SILICONE COMPOSITIONS, METHODS OF MANUFACTURE, AND ARTICLES PREPARED THEREFROM	15561272 9/26/2017	US20180118939 5/3/2018	ROGERS CORPORATION
SUBSTRATES, LAMINATES, AND ASSEMBLIES FOR FLEXIBLE HEATERS, FLEXIBLE HEATERS, AND METHODS OF MANUFACTURE	15562713 9/28/2017	US20180093455 4/5/2018	ROGERS CORPORATION
Dielectric resonator antenna and method of making the same	15726904 10/6/2017	US10355361 7/16/2019	ROGERS CORPORATION
Broadband multiple layer dielectric resonator antenna and method of making the same	15769410 4/19/2018	US10522917 12/31/2019	ROGERS CORPORATION
Broadband multiple layer dielectric resonator antenna and method of making the same	15769437 4/19/2018	US10587039 3/10/2020	ROGERS CORPORATION
MULTI-LAYER MAGNETO-DIELECTRIC MATERIAL	15850466 12/21/2017	US20180182525 6/28/2018	ROGERS CORPORATION
LAYERED SENSOR APPARATUS AND METHOD OF MAKING SAME	15903204 2/23/2018	US20180254405 9/6/2018	ROGERS CORPORATION
CONNECTED DIELECTRIC RESONATOR ANTENNA ARRAY AND METHOD OF MAKING THE SAME	15957043 4/19/2018	US20180323514 11/8/2018	ROGERS CORPORATION
ELECTROMAGNETIC REFLECTOR FOR USE IN A DIELECTRIC RESONATOR ANTENNA SYSTEM	15957078 4/19/2018	US20190123448 4/25/2019	ROGERS CORPORATION
Array apparatus comprising a dielectric resonator array disposed on a ground layer and individually fed by corresponding signal feeds, thereby providing a corresponding magnetic dipole vector	15958508 4/20/2018	US10665947 5/26/2020	ROGERS CORPORATION

Title	Application Number Application Date	Publication Number Publication Date	Owner
MAGNETO-DIELECTRIC MATERIAL COMPRISING HEXAFERRITE FIBERS, METHODS OF MAKING, AND USES THEREOF	16067181 6/29/2018	US20190013128 1/10/2019	ROGERS CORPORATION
COMPOSITES, METHODS OF MANUFACTURE THEREOF, AND ARTICLES CONTAINING THE COMPOSITES	16095776 10/23/2018	US20190127620 5/2/2019	ROGERS CORPORATION
DIELECTRIC LAYER WITH IMPROVED THERMALLY CONDUCTIVITY	16181415 11/6/2018	US20190136109 5/9/2019	ROGERS CORPORATION
POLYIMIDE COMPOSITION HAVING A LOW COEFFICIENT OF THERMAL EXPANSION	16193339 11/16/2018	US20190153225 5/23/2019	ROGERS CORPORATION
MAGNETO-DIELECTRIC ANTENNA	16233496 12/27/2018	US20190260119 8/22/2019	ROGERS CORPORATION
CORE-SHELL PARTICLES, MAGNETO-DIELECTRIC MATERIALS, METHODS OF MAKING, AND USES THEREOF	16242551 1/8/2019	US20190221343 7/18/2019	ROGERS CORPORATION
DIELECTRIC RESONATOR ANTENNA HAVING FIRST AND SECOND DIELECTRIC PORTIONS	16246880 1/14/2019	US20190221926 7/18/2019	ROGERS CORPORATION
DIELECTRIC RESONATOR ANTENNA HAVING FIRST AND SECOND DIELECTRIC PORTIONS	16246886 1/14/2019	US20190221939 7/18/2019	ROGERS CORPORATION
DIELECTRIC RESONATOR ANTENNA HAVING FIRST AND SECOND DIELECTRIC PORTIONS	16246892 1/14/2019	US20190221940 7/18/2019	ROGERS CORPORATION
POLYTETRAFLUOROETHYLENE HEXAFERRITE COMPOSITES	16275420 2/14/2019	US20190264005 8/29/2019	ROGERS CORPORATION
COMPRESSIBLE THERMALLY CONDUCTIVE ARTICLES	16331211 3/7/2019	US20190281726 9/12/2019	ROGERS CORPORATION
METHOD FOR DELAYING CURING IN POLYURETHANE AND COMPOSITIONS AND ARTICLES MADE THEREFROM	16342682 4/17/2019	US20190292298 9/26/2019	ROGERS CORPORATION
MELT PROCESSABLE THERMOPLASTIC COMPOSITE COMPRISING A MULTIMODAL DIELECTRIC FILLER	16357929 3/19/2019	US20190291364 9/26/2019	ROGERS CORPORATION
TEXTURED PLANAR M-TYPE HEXAGONAL FERRITES AND METHODS OF USE THEREOF	16378676 4/9/2019	US20190318858 10/17/2019	ROGERS CORPORATION
ELECTROMAGNETIC DIELECTRIC STRUCTURE ADHERED TO A SUBSTRATE AND METHODS OF MAKING THE SAME	16396943 4/29/2019	US20190341696 11/7/2019	ROGERS CORPORATION

Title	Application Number Application Date	Publication Number Publication Date	Owner
THERMAL MANAGEMENT PHASE-CHANGE COMPOSITION, METHODS OF MANUFACTURE THEREOF, AND ARTICLES CONTAINING THE COMPOSITION	16434502 6/7/2019	US20190375939 12/12/2019	ROGERS CORPORATION
DIELECTRIC RESONATOR ANTENNA AND METHOD OF MAKING THE SAME	16456092 6/28/2019	US20190319357 10/17/2019	ROGERS CORPORATION
BROADBAND MULTIPLE LAYER DIELECTRIC RESONATOR ANTENNA AND METHOD OF MAKING THE SAME	16456190 6/28/2019	US20190319358 10/17/2019	ROGERS CORPORATION
BROADBAND MULTIPLE LAYER DIELECTRIC RESONATOR ANTENNA AND METHOD OF MAKING THE SAME	16563041 9/6/2019	US20190393607 12/26/2019	ROGERS CORPORATION
DIELECTRIC RESONATOR ANTENNA SYSTEM	16564626 9/9/2019	US20200083602 3/12/2020	ROGERS CORPORATION
POLYURETHANE PHASE-CHANGE COMPOSITIONS AND METHODS OF MANUFACTURE THEREOF	16589766 10/1/2019	US20200131363 4/30/2020	ROGERS CORPORATION
FUSIBLE PHASE-CHANGE POWDERS FOR THERMAL MANAGEMENT, METHODS OF MANUFACTURE THEREOF, AND ARTICLES CONTAINING THE POWDERS	16641067 2/21/2020	US20200172783 6/4/2020	ROGERS CORPORATION
METHOD FOR THE MANUFACTURE OF A SPATIALLY VARYING DIELECTRIC MATERIAL, ARTICLES MADE BY THE METHOD, AND USES THEREOF	16657054 102780/18/2019	US20200122387 4/23/2020	ROGERS CORPORATION
MILLIMETER-WAVE-RADAR-BASED ELECTROMAGNETIC APPARATUS	16663443 10/25/2019	US20200133398 4/30/2020	ROGERS CORPORATION
HIGH FREQUENCY MAGNETIC FILMS, METHOD OF MANUFACTURE, AND USES THEREOF	16676736 11/7/2019	US20200161034 5/21/2020	ROGERS CORPORATION
ELECTROMAGNETIC DEVICE	16680610 11/12/2019	US20200176876 6/4/2020	ROGERS CORPORATION
Broadband multiple layer dielectric resonator antenna and method of making the same	16680727 11/12/2019	US10700434 6/30/2020	ROGERS CORPORATION
DIELECTRIC RESONATOR ANTENNA SYSTEM	16682035 11/13/2019	US20200083610 3/12/2020	ROGERS CORPORATION
Broadband multiple layer dielectric resonator antenna and array thereof	16686442 11/18/2019	US10700435 6/30/2020	ROGERS CORPORATION

Title	Application Number Application Date	Publication Number Publication Date	Owner
MULTI-LAYER EXERCISE MAT	16690855 11/21/2019	US20200164611 5/28/2020	ROGERS CORPORATION
BROADBAND MULTIPLE LAYER DIELECTRIC RESONATOR ANTENNA AND METHOD OF MAKING THE SAME	16692149 11/22/2019	US20200099136 3/26/2020	ROGERS CORPORATION
SINGLE-SIDED PRESSURE-SENSITIVE ADHESIVE TAPE	16713538 12/13/2019	US20200199412 6/25/2020	ROGERS CORPORATION
BROADBAND MULTIPLE LAYER DIELECTRIC RESONATOR ANTENNA	16801476 2/26/2020	US20200194881 6/18/2020	ROGERS CORPORATION
LOW LOSS DIELECTRIC COMPOSITE COMPRISING A HYDROPHOBIZED FUSED SILICA	16/798809 2/24/2020	2020-0270413-A1 8/27/2020	ROGERS CORPORATION
LOW LOSS, COMPOSITE LAYER AND A COMPOSITION FOR FORMING THE SAME	16/878855 5/20/2020	--	ROGERS CORPORATION
FLEXIBLE DIELECTRIC MATERIAL COMPRISING A BIAXIALLY-ORIENTED POLYTETRAFLUOROETHYLENE REINFORCING LAYER	63/000857 3/27/2020	--	ROGERS CORPORATION
THERMOSETTING THERMALLY CONDUCTIVE DIELECTRIC COMPOSITE	62/961265 1/15/2020	--	ROGERS CORPORATION
COATED SEPARATOR, ELECTROCHEMICAL CELL COMPRISING A COATED SEPARATOR, AND METHOD OF MAKING A COATED SEPARATOR	62/964749 1/23/2020	--	ROGERS CORPORATION
PROTECTIVE LAYER FOR AN ANODE OF A LEAD ACID BATTERY	16/903597 6/17/2020	--	ROGERS CORPORATION
INTUMESCENT BATTERY PAD	16/892566 6/4/2020	--	ROGERS CORPORATION
ION EXCHANGE MEMBRANE, METHOD OF MAKING THE ION EXCHANGE MEMBRANE, AND FLOW BATTERY COMPRISING THE ION EXCHANGE MEMBRANE	16/821446 3/17/2020	--	ROGERS CORPORATION
BATTERY PACKAGING MATERIALS, METHODS OF MANUFACTURE, AND USES THEREOF	16/866842 5/5/2020	--	ROGERS CORPORATION
PHOTOCURABLE COMPOSITIONS FOR STEREOLITHOGRAPHY, METHOD OF FORMING THE COMPOSITIONS, STEREOLITHOGRAPHY METHODS USING THE COMPOSITIONS, POLYMER COMPONENTS FORMED BY THE STEREOLITHOGRAPHY METHODS, AND A DEVICE INCLUDING THE POYMER COMPONENTS	16/887320 5/29/2020	--	ROGERS CORPORATION
MAGNETO-DIELECTRIC MATERIALS, METHODS OF MAKING, AND USES THEREOF	62/874567 7/16/2019	--	ROGERS CORPORATION
MAGNETO-DIELECTRIC MATERIALS, METHODS OF MAKING, AND USES THEREOF	16/930907 7/16/2020	--	ROGERS CORPORATION
COAXIAL FERRITE FIBERS, MAGNETO-DIELECTRIC MATERIALS, METHODS OF MAKING, AND USES THEREOF	62/890636 8/23/2019	--	ROGERS CORPORATION
POLARIZED ELECTROMAGNETIC DEVICE	62/968174 1/31/2020	--	ROGERS CORPORATION
RUTHENIUM DOPED Z-TYPE HEXAFERRITE	62/882681 8/5/2019	--	ROGERS CORPORATION

Title	Application Number Application Date	Publication Number Publication Date	Owner
RUTHENIUM DOPED Z-TYPE HEXAFERRITE	16/941707 7/29/2020	--	ROGERS CORPORATION
MULTIPHASE FERRITES AND COMPOSITES COMPRISING THE SAME	62/880278 7/30/2019	--	ROGERS CORPORATION
MULTIPHASE FERRITES AND COMPOSITES COMPRISING THE SAME	16/938396 7/24/2020	--	ROGERS CORPORATION
MAGNETIC PARTICLES, METHODS OF MAKING, AND USES THEREOF	62/893872 8/30/2019	--	ROGERS CORPORATION
MAGNETIC PARTICLES, METHODS OF MAKING, AND USES THEREOF	17/000610 8/4/2020	--	ROGERS CORPORATION
RADAR-ENABLED MULTI-VEHICLE SYSTEMS	62/906206 9/26/2019	--	ROGERS CORPORATION
NANOCRYSTALLINE COBALT DOPED NICKEL FERRITE PARTICLES, METHOD OF MANUFACTURE, AND USES THEREOF	62/916425 10/17/2019	--	ROGERS CORPORATION
SHAPED DIELECTRIC COMPONENT CROSS-LINKED VIA IRRADIATION AND METHOD OF MAKING THEREOF	62/938983 11/22/2019	--	ROGERS CORPORATION
BISMUTH RUTHENIUM M-TYPE HEXAFERRITE	62/904903 9/24/2019	--	ROGERS CORPORATION
M-TYPE HEXAFERRITE COMPRISING ANTIMONY	62/927783 10/30/2019	--	ROGERS CORPORATION
HIGH THERMAL CONDUCTIVITY PHASE CHANGE COMPOSITE	62/958644 1/8/2020	--	ROGERS CORPORATION
COMPOSITE MATERIALS FOR THERMAL RUNAWAY PROTECTION	62/977904 2/18/2020	--	ROGERS CORPORATION
COMPOSITE MATERIALS FOR THERMAL RUNAWAY PROTECTION	62/988664 3/12/2020	--	ROGERS CORPORATION
Z-TYPE HEXAFERRITE HAVING A NANOCRYSTALLINE STRUCTURE	62/979526 2/21/2020	--	ROGERS CORPORATION
POLYCRYSTALLINE 18H HEXAFERRITE, METHOD OF MANUFACTURE, AND USES THEREOF	62/972116 2/10/2020	--	ROGERS CORPORATION
LEAD ACID AND LEAD CARBON BATTERY	63/055660 7/23/2020	--	ROGERS CORPORATION
COMPOSITE MATERIALS FOR THERMAL RUNAWAY PROTECTION	62/988662 3/12/2020	--	ROGERS CORPORATION
FREESTANDING LAMINATE, METHOD FOR THE MANUFACTURE THEREOF, AND METHOD OF MAKING A LEAD CARBON BATTERY	63/013652 4/22/2020	--	ROGERS CORPORATION
DIELECTRIC LENS AND ELECTROMAGNETIC DEVICE WITH SAME	63/006976 4/8/2020	--	ROGERS CORPORATION
DUAL-PHASE M-TYPE HEXAFERRITE HAVING A PLANAR ANISOTROPY	63/021295 5/7/2020	--	ROGERS CORPORATION
M-TYPE HEXAFERRITE COMPRISING A LOW DIELECTRIC LOSS CERAMIC	63/023303 5/12/2020	--	ROGERS CORPORATION
REINFORCING CIRCUIT MATERIAL COMPONENTS, METHODS OF MANUFACTURE, AND ARTICLES INCLUDING THE SAME	63/015917 4/27/2020	--	ROGERS CORPORATION
NOVEL MULTIFERROIC R-TYPE HEXAFERRITE	63/072349 8/31/2020	--	ROGERS CORPORATION
MODULAR PROTECTIVE SYSTEM FOR JOINTS, METHOD, AND KIT	16/604732 10/11/2019	--	ROGERS CORPORATION
CAP LINER COMPRISING A SINTERED FLUOROPOLYMER LAYER	16/800528 2/25/2020	--	ROGERS CORPORATION
THERMAL CONDUCTIVE PHASE-CHANGE COMPOSITION, METHODS OF MANUFACTURE THEREOF, AND ARTICLES CONTAINING THE COMPOSITION	63/052575 7/16/2020	--	ROGERS CORPORATION

Title	Application Number Application Date	Publication Number Publication Date	Owner
MO-DOPED COZZ-TYPE FERRITE COMPOSITE MATERIAL FOR USE ULTRA-HIGH FREQUENCY	15/546891 7/27/2017	2018-0016157-A1 1/18/2018	ROGERS CORPORATION