

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM630197

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	Short Form Intellectual Property Security Agreement		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
C3 NANO, Inc.		02/22/2021	Corporation: DELAWARE
RECEIVING PARTY DATA			
Name:	Newlight Capital LLC		
Street Address:	525 Middlefield Road, Suite 250		
City:	Menlo Park		
State/Country:	CALIFORNIA		
Postal Code:	94025		
Entity Type:	Limited Liability Company: NORTH CAROLINA		
PROPERTY NUMBERS Total: 3			
Property Type	Number	Word Mark	
Registration Number:	5533463	C3 NANO	
Registration Number:	5723953	NANOGLUE	
Registration Number:	6073924	ACTIVEGRID	
CORRESPONDENCE DATA			
Fax Number:	6173417701		
<i>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.</i>			
Phone:	617-951-8132		
Email:	linda.salera@morganlewis.com		
Correspondent Name:	Linda A. Salera, Senior Paralegal		
Address Line 1:	One Federal Street		
Address Line 2:	c/o Morgan, Lewis & Bockius LLP		
Address Line 4:	Boston, MASSACHUSETTS 02110		
NAME OF SUBMITTER:	Linda A. Salera		
SIGNATURE:	/Linda A. Salera/		
DATE SIGNED:	03/05/2021		
Total Attachments: 21			
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SHORT FORM INTELLECTUAL PROPERTY SECURITY AGREEMENT

This SHORT FORM INTELLECTUAL PROPERTY SECURITY AGREEMENT (the "Short Form Agreement") is made by **C3 NANO, INC.**, a Delaware corporation ("Grantor"), and dated as of February 22, 2021, in favor of **NEWLIGHT CAPITAL LLC**, a North Carolina limited liability company, as servicer ("Servicer"), (i) for itself and for the benefit of **UMB BANK, NATIONAL ASSOCIATION**, as Trustee, solely in its capacity as disbursing agent ("Disbursing Agent"), and (ii) as collateral agent for the benefit of the Trustee under the Trust Indenture.

WITNESSETH:

WHEREAS, the Grantor, Servicer and Disbursing Agent entered into an Intellectual Property Security Agreement dated as of February 22, 2021 (as amended, restated, modified or supplemented from time to time, the "Intellectual Property Security Agreement"), and this Short Form Agreement is a supplement to the Intellectual Property Security Agreement; and

WHEREAS, this Short Form Agreement is executed for the purpose of filing a short form intellectual property security agreement with the United States Patent and Trademark Office (the "USPTO") and the United States Copyright Office (the "USCO"), which sets forth the Grantor's pledge of its intellectual property as a first priority security interest for certain indebtedness and other obligations of Grantor;

NOW, THEREFORE, in consideration of the premises, and for other good and valuable consideration as set forth in the Intellectual Property Security Agreement, the receipt and sufficiency of which are hereby acknowledged, the Grantor and Servicer hereby agree as follows:

1. GRANT OF SECURITY INTEREST.

Grantor hereby pledges, assigns and grants to Servicer (and its successors and assigns), (x)(i) for the benefit of itself, (ii) as representative and for the benefit of the Insurer and (iii) as representative and for the benefit of Disbursing Agent, in order to secure prompt repayment and performance of any and all Obligations and in order to secure prompt performance by Grantor and each other Co-Obligor of each of its agreements, covenants and duties under the Disbursement Documents, and (y) as collateral agent for the benefit of the Trustee under the Trust Indenture in order to secure prompt repayment of any and all obligations of Grantor and each other Co-Obligor under the Trust Transaction Documents and in order to secure prompt performance by Grantor and each other Co-Obligor of each of its agreements, covenants and duties under the Trust Transaction Documents, a continuing security interest in and a lien upon, and a collateral assignment of, all of the following (being collectively referred to herein as the "IP Collateral):

- a. all of its now existing or hereafter acquired right, title and interest in and to all patents, trademarks, copyrights, inventions, invention disclosures and improvements, and all applications, registrations and recordings relating to the foregoing, and any reissues, divisions, continuations, continuations-in-part, renewals, extensions, and/or reexaminations of any of the foregoing, as may at any time be filed in the USPTO or in any similar office or agency of the United States, any State thereof, any political subdivision thereof, or in any other country, including, without limitation, those set forth on Schedule A; provided, however, such security interest shall not extend to any "intent-to-use" trademark application filed pursuant to Section 1(b) of the Lanham Act, 15 U.S.C. § 1051, prior to the filing of a "Statement of Use" pursuant to Section 1(d) of the Lanham Act or an "Amendment to Allege Use" pursuant to Section 1(c) of the Lanham Act with respect thereto, to the extent that, and solely during the period, if any, in which, the grant of a security interest therein would impair the validity or enforceability of any registration that issues from such intent-to-use application under applicable federal law (it

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being understood that after such period such intent-to-use application shall be automatically subject to the security interest granted herein);

- b. all rights of any kind whatsoever accruing under any of the foregoing throughout the world, including, without limitation, all rights under and interests in any and all patent, copyright or trademark licenses, whether written or oral, with any other party, and whether Grantor is a licensee or licensor under any such license (all of the foregoing are referred to, collectively, as the "Licenses");
- c. all income, fees, royalties and other payments at any time due or payable with respect thereto, including, without limitation payments under any and all Licenses at any time entered into in connection therewith; and
- d. any and all claims and/or causes of actions with respect to any of the foregoing, whether occurring before, on, or after the date hereof, including without limitation all rights to and claims for damages, restitution and injunctive and other legal and equitable relief for past, present, and/or future infringement, violation, misuse, breach, or default, with the right but not the obligation to sue for such legal and equitable relief and to collect, or otherwise recover, any such damages.

2. MISCELLANEOUS

- a. To the extent that Grantor creates or acquires any items of the type described in Section 1 after the date hereof, the same shall immediately constitute IP Collateral for purposes hereof from and after the date of such creation or acquisition and shall immediately be subject to the security interest and assignment set forth herein. Grantor shall promptly give Servicer not less than fifteen (15) days prior written notice of any such creation or acquisition. Upon the request of Servicer, Grantor shall promptly execute any and all assignments, agreements, instruments, documents and other papers as may be reasonably requested by Servicer to evidence and/or perfect the security interest in and collateral assignment of such items in favor of Servicer, including, without limitation, in Servicer's discretion, a modification, amendment or supplement hereof or a new short form intellectual property security agreement with respect thereto.
- b. Grantor authorizes the Commissioner for Patents, the Commissioner for Trademarks and any other government officials to record this Short Form Agreement upon request of Servicer.
- c. This Short Form Agreement has been entered into pursuant to, and in conjunction with, the Intellectual Property Security Agreement, and the terms and provisions thereof are incorporated by reference herein. The rights and remedies of Servicer with respect to the security interests described herein are as provided by the Intellectual Property Security Agreement and nothing in this Short Form Agreement shall be deemed to limit such rights and remedies.
- d. This Short Form Agreement is binding on and shall inure to the benefit of the parties hereto, and their respective successors and assigns.
- e. All capitalized terms not expressly defined herein shall have the definitions ascribed to them in the Intellectual Property Security Agreement and are incorporated herein by reference. If there is a conflict between the definitions, terms, and/or provisions of this

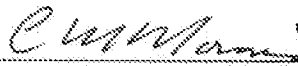
Short Form Agreement and the Intellectual Property Security Agreement, the definitions, terms, and/or provisions of the Intellectual Property Security Agreement shall control.

- f. This Short Form Agreement may be executed in any number of counterparts and by different parties on separate counterparts, each of which, when executed and delivered, shall be deemed to be an original, and all of which, when taken together, shall constitute but one and the same agreement. Delivery of an executed signature page or counterpart (or electronic image or scan transmission (such as a "pdf" file) thereof), whether by facsimile transmission, email, similar form of electronic transmission or otherwise (and whether executed manually, electronically or digitally), shall be effective as delivery of a manually executed counterpart of this Short Form Agreement and shall create a valid and binding obligation of the party executing the same or on whose behalf such signature page or counterpart is executed.
- g. THIS SHORT FORM AGREEMENT SHALL BE GOVERNED BY NEW YORK LAW, WITHOUT REGARD TO PRINCIPLES OF CONFLICTS OF LAW THAT WOULD RESULT IN THE APPLICATION OF THE LAW OF A STATE OTHER THAN NEW YORK.

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IN WITNESS WHEREOF, the undersigned have duly executed this Short Form Agreement as of the date first above written.

C3 NANO, INC., as Grantor


By: 
Name: Clifford M. Morris
Title: Chief Executive Officer

[Signature Page to Short Form IP Agreement]

TRADEMARK
REEL: 007213 FRAME: 0414

ACCEPTED AND AGREED:

NEWLIGHT CAPITAL LLC, as Servicer

By:  _____
Name: Alexis Coyle
Title: Sr. Managing Director

[Signature Page to Short Form IP Agreement]

TRADEMARK
REEL: 007213 FRAME: 0415

SCHEDULE A
TO
SHORT FORM INTELLECTUAL PROPERTY SECURITY AGREEMENT

Registered Patents & Patent Applications

Grantor	Inventors	Jurisdiction	Patent	App. No. / Publication No.	App. Date / Publ'n Date	Patent No.	Issued Date
C3 Nano, Inc.	Ajay Virkar, Ying-Syi Li, Melburne C. LeMieux	USA	Metal Nanowire Networks and Transparent Conductive Material	13/530,822 2013/0341074	06-22-2012 12-26-13	10,029,916	07-24-2018
C3 Nano, Inc.	Ajay Virkar, Ying-Syi Li, Melburne C. LeMieux	USA	Metal Nanowire Networks and Transparent Conductive Material (Div)	16/018,889 2018/0297840	06-26-2018 10-18-2018		
C3 Nano, Inc.	Ajay Virkar; Ying-Syi Li; Xiqiang Yang; Melburne C. Lemieux	Taiwan	Metal Nanostructured Networks and Transparent Conductive Material	102122029 201405583	6/20/2013 2/1/2014	I627640	06-21-2018
C3 Nano, Inc.	Ajay Virkar; Ying-Syi Li; Xiqiang Yang; Melburne C. Lemieux	USA	Metal Nanostructured Networks and Transparent Conductive Material	13/664,159 2013/0342221	10-30-2012 12/26/2013	9,920,207	03-20-2018
C3 Nano, Inc.	Ajay Virkar; Ying-Syi Li; Xiqiang Yang; Melburne C. Lemieux	USA	Metal Nanostructured Networks and Transparent Conductive Material	15/886,201 2018-0155558	02-01-2018 06-07-2018	10,781,324	09-22-2020
C3 Nano, Inc.	Ajay Virkar; Ying-Syi Li; Xiqiang Yang; Melburne C. Lemieux	USA	Metal Nanostructured Networks and Transparent Conductive Material	16/994,519 2020-0377744	08-14-2020 12-03-2020		
C3 Nano, Inc.	Ajay Virkar; Ying-Syi Li; Xiqiang Yang; Melburne C. Lemieux	China	Metal Nanostructured Networks and Transparent Conductive Material	201380033141. 7 CN104685577A	6/20/2013 6/3/2015	ZL201380033 141.7	01/16/2018
C3 Nano, Inc.	Ajay Virkar; Ying-Syi Li; Xiqiang Yang; Melburne C. Lemieux	EPO	Metal Nanostructured Networks and Transparent Conductive Material	13806288.0 2 864 990	6/20/2013 04/29/2015	2864990	10-02-2019
C3 Nano, Inc.	Ajay Virkar; Ying-Syi Li; Xiqiang Yang; Melburne C. Lemieux	EPO	Metal Nanostructured Networks and Transparent Conductive Material	19200682.3 3611231	10-01-2019 02-19-2020		

C3 Nano, Inc.	Ajay Virkar; Ying-Syi Li; Xiqiang Yang; Melburne C. Lemieux	Hong Kong	Metal Nanostructured Networks and Transparent Conductive Material	42020013168.8 40023116	08-04-2020 11-27-2020		
C3 Nano, Inc.	Ajay Virkar; Ying-Syi Li; Xiqiang Yang; Melburne C. Lemieux	Japan	Metal Nanostructured Networks and Transparent Conductive Material	2015-518580 2015-530693	6/20/2013 10/15/2015	6392213	08/31/2018
C3 Nano, Inc.	Ajay Virkar; Ying-Syi Li; Xiqiang Yang; Melburne C. Lemieux	Korea	Metal Nanostructured Networks and Transparent Conductive Material	10-2015- 7001771 KR2015004086 5A	6/20/2013 04-15-2015	10-2027623	09-25-2019
C3 Nano, Inc.	Ajay Virkar; Ying-Syi Li; Xiqiang Yang; Melburne C. Lemieux	Korea	Metal Nanostructured Networks and Transparent Conductive Material	10-2019- 7028001	09-24-2019	10-2143963	08-06-2020
C3 Nano, Inc.	Ajay Virkar; Ying-Syi Li; Xiqiang Yang; Melburne C. Lemieux	Korea	Metal Nanostructured Networks and Transparent Conductive Material	10-2020- 7022803	08-06-2020		
C3 Nano, Inc.	Ajay Virkar; Xiqiang Yang; Ying-Syi Li; Dennis McKean; Melburne C. LeMieux	Taiwan	Fused Metal Nanostructured Networks, Fusing Solutions with Reducing Agents and Methods for Forming Metal Networks	103106126 TW201446491 A	2/24/2014 12-16-2014	I624357	05-21-2018
C3 Nano, Inc.	Ajay Virkar; Xiqiang Yang; Ying-Syi Li; Dennis McKean; Melburne C. LeMieux	USA	Fused Metal Nanostructured Networks, Fusing Solutions with Reducing Agents and Methods for Forming Metal Networks	13/777,802 2014/0238833	02-26-2013 08/28/2014	10,020,807	07-10-2018
C3 Nano, Inc.	Ajay Virkar; Xiqiang Yang; Ying-Syi Li; Dennis McKean; Melburne C. LeMieux	USA	Fused Metal Nanostructured Networks, Fusing Solutions with Reducing Agents and Methods for Forming Metal Networks (Div)	16/001,472 2018-0287608	06-06-2018 10-04-2018		
C3 Nano, Inc.	Ajay Virkar; Xiqiang Yang; Ying-Syi Li; Dennis McKean; Melburne C. LeMieux	China	Fused Metal Nanostructured Networks and Fusing Solutions with Reducing Agents	201480018734. 0 CN105102555A	2/21/2014 11/25/2015	ZL 20148001873 4.0	02-16-2018
C3 Nano, Inc.	Ajay Virkar; Xiqiang Yang; Ying-Syi Li; Dennis McKean; Melburne C. LeMieux	China	Fused Metal Nanostructured Networks and Fusing Solutions with Reducing Agents	201810047475. 4 CN108357168A	01-18-2018 08-03-2018		

C3 Nano, Inc.	Ajay Virkar; Xiqiang Yang; Ying-Syi Li; Dennis McKean; Melburne C. LeMieux	EPO	Fused Metal Nanostructured Networks and Fusing Solutions with Reducing Agents	14757422.2 2961801	2/21/2014 1/6/2016		
C3 Nano, Inc.	Ajay Virkar; Xiqiang Yang; Ying-Syi Li; Dennis McKean; Melburne C. LeMieux	Japan	Fused Metal Nanostructured Networks and Fusing Solutions with Reducing Agents	2015-558993 JP2016519206 A	2/21/2014 06-30-2016	6387021	8/17/2018
C3 Nano, Inc.	Ajay Virkar; Xiqiang Yang; Ying-Syi Li; Dennis McKean; Melburne C. LeMieux	Japan	Fused Metal Nanostructured Networks and Fusing Solutions with Reducing Agents	2018-151356 2019-007085	08-10-2018 01-17-2019	6657336	02/07/2020
C3 Nano, Inc.	Ajay Virkar; Xiqiang Yang; Ying-Syi Li; Dennis McKean; Melburne C. LeMieux	Korea	Fused Metal Nanostructured Networks and Fusing Solutions with Reducing Agents	10-2015- 7026866 KR2016001040 6A	2/21/2014 01-27-2016	10-1888734	08/08/2018
C3 Nano, Inc.	Xiqiang Yang, Ying-Syi Li, Yung-Yu Huang, Christopher Scully, Clifford M. Morris, Ajay Virkar	Taiwan	Transparent Conductive Coatings Based on Metal Nanowires and Polymer Binders, Solution Processing Thereof, and Patterning Approaches	103140507 201525086	11/21/2014 7-1-2015	I553069	10-11-2016
C3 Nano, Inc.	Xiqiang Yang, Ying-Syi Li, Yung-Yu Huang, Christopher S. Scully, Clifford M. Morris, Ajay Virkar	USA	Transparent Conductive Coatings Based on Metal Nanowires and Polymer Binders, Solution Processing Thereof, and Patterning Approaches	14/087,669 2015/0144380	11/22/2013 5/28/2015		
C3 Nano, Inc.	Xiqiang Yang, Ying-Syi Li, Yung-Yu Huang, Christopher S. Scully, Clifford M. Morris, Ajay Virkar	China	Transparent Conductive Coatings Based on Metal Nanowires	201480071606. 2 CN105874889A	11/14/2014 08/17/2016	ZL201480071 606.2	07/16/2019
C3 Nano, Inc.	Xiqiang Yang, Ying-Syi Li, Yung-Yu Huang, Christopher S. Scully, Clifford M. Morris, Ajay Virkar	China	Transparent Conductive Coatings Based on Metal Nanowires	201910542227. 1 CN110204950A	06-21-2019 09-06-2019		
C3 Nano, Inc.	Xiqiang Yang, Ying-Syi Li, Yung-Yu Huang, Christopher S. Scully, Clifford M. Morris, Ajay Virkar	Hong Kong	Transparent Conductive Coatings Based on Metal Nanowires	42020003270.4 40013166A	02-25-2020 08-07-2020		

C3 Nano, Inc.	Xiqiang Yang, Ying-Syi Li, Yung-Yu Huang, Christopher S. Scully, Clifford M. Morris, Ajay Virkar	EPO	Transparent Conductive Coatings Based on Metal Nanowires	14863676.4 3072373	11/14/2014 09/28/2016		
C3 Nano, Inc.	Xiqiang Yang, Ying-Syi Li, Yung-Yu Huang, Christopher S. Scully, Clifford M. Morris, Ajay Virkar	Japan	Transparent Conductive Coatings Based on Metal Nanowires	2016-533161 2017-505509	11-14-2014 02-16-2017	6644684	01-10-2020
C3 Nano, Inc.	Xiqiang Yang, Ying-Syi Li, Yung-Yu Huang, Christopher S. Scully, Clifford M. Morris, Ajay Virkar	Japan	Transparent Conductive Coatings Based on Metal Nanowires	2020-001550 2020-074310	01-08-2020 05-14-2020		
C3 Nano, Inc.	Xiqiang Yang, Ying-Syi Li, Yung-Yu Huang, Christopher S. Scully, Clifford M. Morris, Ajay Virkar	Korea	Transparent Conductive Coatings Based on Metal Nanowires	10-2016- 7016609	11-14-2014		
C3 Nano, Inc.	Yu Kambe, Yung-Yu Huang, Christopher S. Scully, Xiqiang Yang, Ajay Virkar	USA	Formable Transparent Conductive Films with Metal Nanowires	14/680,390	04-07-2015		
C3 Nano, Inc.	Ying-Syi Li, Xiqiang Yang, Yu Kambe, Xiaofeng Chen, Hua Gu, Steven Michael Lam, Melanie Mariko Inouye, Arthur Yung-Chi Cheng, Alex Da Zhang Tan, Christopher S. Scully, Ajay Virkar	Taiwan	Metal Nanowire Inks for the Formation of Transparent Conductive Films with Fused Networks	104124429 201610006	07-28-2015 03-16-2016	I577752	04-11-2017

C3 Nano, Inc.	Ying-Syi Li, Xiqiang Yang, Yu Kambe, Xiaofeng Chen, Hua Gu, Steven Michael Lam, Melanie Mariko Inouye, Arthur Yung-Chi Cheng, Alex Da Zhang Tan, Christopher S. Scully, Ajay Virkar	Taiwan	Metal Nanowire Inks for the Formation of Transparent Conductive Films with Fused Networks	105143754 201713735	12-28-2016 04-16-2017	I621669	04-21-2018
C3 Nano, Inc.	Ying-Syi Li, Xiqiang Yang, Yu Kambe, Xiaofeng Chen, Hua Gu, Steven Michael Lam, Melanie Mariko Inouye, Arthur Yung-Chi Cheng, Alex Da Zhang Tan, Christopher S. Scully, Ajay Virkar	USA	Metal Nanowire Inks for the Formation of Transparent Conductive Films with Fused Networks	14/448,504	07-31-2014	9,183,968	11/10/2015
C3 Nano, Inc.	Ying-Syi Li, Xiqiang Yang, Yu Kambe, Xiaofeng Chen, Hua Gu, Steven Michael Lam, Melanie Mariko Inouye, Arthur Yung-Chi Cheng, Alex Da Zhang Tan, Christopher S. Scully, Ajay Virkar	USA	Metal Nanowire Inks for the Formation of Transparent Conductive Films with Fused Networks (Continuation)	14/464,332	08-20-2014	9,150,746	10/06/2015
C3 Nano, Inc.	Ying-Syi Li, Xiqiang Yang, Yu Kambe, Xiaofeng Chen, Hua Gu, Steven Michael Lam, Melanie Mariko Inouye, Arthur Yung-Chi Cheng, Alex Da Zhang Tan, Christopher S. Scully, Ajay Virkar	USA	Metal Nanowire Inks for the Formation of Transparent Conductive Films with Fused Networks	14/848,697 2016-0032127	09-09-2015 02-04-2016	9,447,301	09/20/2016

C3 Nano, Inc.	Ying-Syi Li, Xiqiang Yang, Yu Kambe, Xiaofeng Chen, Hua Gu, Steven Michael Lam, Melanie Mariko Inouye, Arthur Yung-Chi Cheng, Alex Da Zhang Tan, Christopher S. Scully, Ajay Virkar	USA	Metal Nanowire Inks for the Formation of Transparent Conductive Films with Fused Networks (Cont)	15/247,533 2016-0369118	08-25-2016 12-22-2016	10,100,213	10/16/2018
C3 Nano, Inc.	Ying-Syi Li, Xiqiang Yang, Yu Kambe, Xiaofeng Chen, Hua Gu, Steven Michael Lam, Melanie Mariko Inouye, Arthur Yung-Chi Cheng, Alex Da Zhang Tan, Christopher S. Scully, Ajay Virkar	USA	Transparent Conductive Films With Fused Networks (Cont.)	16/127,462 2019-0010347	09-11-2018 01-10-2019	10,870,772	12-22-2020
C3 Nano, Inc.	Ying-Syi Li, Xiqiang Yang, Yu Kambe, Xiaofeng Chen, Hua Gu, Steven Michael Lam, Melanie Mariko Inouye, Arthur Yung-Chi Cheng, Alex Da Zhang Tan, Christopher S. Scully, Ajay Virkar	USA	Transparent Conductive Films With Fused Networks (Cont.)	16/952,372	11-19-2020		
C3 Nano, Inc.	Ying-Syi Li, Xiqiang Yang, Yu Kambe, Xiaofeng Chen, Hua Gu, Steven Michael Lam, Melanie Mariko Inouye, Arthur Yung-Chi Cheng, Alex Da Zhang Tan, Christopher S. Scully, Ajay Virkar	China	Metal Nanowire Inks For The Formation Of Transparent Conductive Films With Fused Networks	201580041760. X CN106575541A	7-27-2015 04-19-2017	ZL201580041 760.X	07-07-2020

C3 Nano, Inc.	Ying-Syi Li, Xiqiang Yang, Yu Kambe, Xiaofeng Chen, Hua Gu, Steven Michael Lam, Melanie Mariko Inouye, Arthur Yung-Chi Cheng, Alex Da Zhang Tan, Christopher S. Scully, Ajay Virkar	China	Metal Nanowire Inks For The Formation Of Transparent Conductive Films With Fused Networks	202010573983.3 CN 111621201 A	06-22-2020 09-04-2020		
C3 Nano, Inc.	Ying-Syi Li, Xiqiang Yang, Yu Kambe, Xiaofeng Chen, Hua Gu, Steven Michael Lam, Melanie Mariko Inouye, Arthur Yung-Chi Cheng, Alex Da Zhang Tan, Christopher S. Scully, Ajay Virkar	EPO	Metal Nanowire Inks For The Formation Of Transparent Conductive Films With Fused Networks	15827431.6 3180792	7-27-2015 06-21-2017	3180792	12-30-2020
C3 Nano, Inc.	Ying-Syi Li, Xiqiang Yang, Yu Kambe, Xiaofeng Chen, Hua Gu, Steven Michael Lam, Melanie Mariko Inouye, Arthur Yung-Chi Cheng, Alex Da Zhang Tan, Christopher S. Scully, Ajay Virkar	Japan	Metal Nanowire Inks For The Formation Of Transparent Conductive Films With Fused Networks	2017-505219 2017-529419	07-27-2015 10-05-2017	6577018	08-30-2019
C3 Nano, Inc.	Ying-Syi Li, Xiqiang Yang, Yu Kambe, Xiaofeng Chen, Hua Gu, Steven Michael Lam, Melanie Mariko Inouye, Arthur Yung-Chi Cheng, Alex Da Zhang Tan, Christopher S. Scully, Ajay Virkar	Japan	Metal Nanowire Inks For The Formation Of Transparent Conductive Films With Fused Networks	2019-151031 2020-073628	08-21-2019 05-14-2020		

C3 Nano, Inc.	Ying-Syi Li, Xiqiang Yang, Yu Kambe, Xiaofeng Chen, Hua Gu, Steven Michael Lam, Melanie Mariko Inouye, Arthur Yung-Chi Cheng, Alex Da Zhang Tan, Christopher S. Scully, Ajay Virkar	Korea	Metal Nanowire Inks For The Formation Of Transparent Conductive Films With Fused Networks	10-2017-7005587 KR2017003925 3A	7-27-2015 04-10-2017	10-2056146	12-10-2019
C3 Nano, Inc.	Ying-Syi Li, Xiqiang Yang, Yu Kambe, Xiaofeng Chen, Hua Gu, Steven Michael Lam, Melanie Mariko Inouye, Arthur Yung-Chi Cheng, Alex Da Zhang Tan, Christopher S. Scully, Ajay Virkar	Korea	Metal Nanowire Inks For The Formation Of Transparent Conductive Films With Fused Networks	10-2019-7036371	12-09-2019		
C3 Nano, Inc.	Ajay Virkar, Faraz Azadi Manzour, Xiqiang Yang, Hua Gu	Taiwan	Property Enhancing Fillers for Transparent Coatings and Transparent Conductive Films	104132624 201627428	10-2-2015 8-1-2016	I620802	04-11-2018
C3 Nano, Inc.	Ajay Virkar, Faraz Azadi Manzour, Xiqiang Yang, Hua Gu	USA	Property Enhancing Fillers for Coatings and Transparent Conductive Films	62/059,376	10-03-2014		
C3 Nano, Inc.	Ajay Virkar, Faraz Azadi Manzour, Xiqiang Yang, Hua Gu	USA	Property Enhancing Fillers for Transparent Coatings and Transparent Conductive Films	14/577,669 2016-0096967 A1	12-19-2014 04-07-2016		
C3 Nano, Inc.	Ajay Virkar, Faraz Azadi Manzour, Xiqiang Yang, Hua Gu	USA	Property Enhancing Fillers for Transparent Coatings and Transparent Conductive Films (Div.)	15/889,594 2018-0179410 A1	02-06-2018 06-28-2018	10,738,212	08-11-2020
C3 Nano, Inc.	Ajay Virkar, Faraz Azadi Manzour, Xiqiang Yang, Hua Gu	China	Property Enhancing Fillers for Transparent Coatings and Transparent Conductive Films	201580060974. 1 CN107112302A	10-02-2015 08-29-2017	ZL201580060 974.1	05-26-2020
C3 Nano, Inc.	Ajay Virkar, Faraz Azadi Manzour, Xiqiang Yang, Hua Gu	Hong Kong	Property Enhancing Fillers for Transparent Coatings and Transparent Conductive Films	18101954.2 1242838A	02-08-2018 06-29-2018		

C3 Nano, Inc.	Ajay Virkar, Faraz Azadi Manzour, Xiqiang Yang, Hua Gu	China	Property Enhancing Fillers for Transparent Coatings and Transparent Conductive Films	202010371396.6 CN111378309A	05-06-2020 07-07-2020		
C3 Nano, Inc.	Ajay Virkar, Faraz Azadi Manzour, Xiqiang Yang, Hua Gu	Japan	Property Enhancing Fillers for Transparent Coatings and Transparent Conductive Films	2017-517776 2018-500194	10-02-2015 01-11-2018	6823591	01-13-2021
C3 Nano, Inc.	Ajay Virkar, Faraz Azadi Manzour, Xiqiang Yang, Hua Gu	Korea	Property Enhancing Fillers for Transparent Coatings and Transparent Conductive Films	10-2017-7012065	10-02-2015		
C3 Nano, Inc.	Xiqiang Yang, Yadong Cao, Yongxing Hu, Hua Gu, Ying-Syi Li, and Ajay Virkar	Taiwan	Transparent Films With Control Of Light Hue Using Nanoscale Colorants	104134114 201621923	10-16-2015 6-16-2016	1595514	08-11-2017
C3 Nano, Inc.	Xiqiang Yang, Yadong Cao, Yongxing Hu, Hua Gu, Ying-Syi Li, and Ajay Virkar	USA	Transparent Films with Control of Light Hue Using Nanoscale Colorants	14/627,400 2016/0108256	02/20/2015 04-21-2016		
C3 Nano, Inc.	Xiqiang Yang, Yadong Cao, Yongxing Hu, Hua Gu, Ying-Syi Li, and Ajay Virkar	China	Transparent Films With Control Of Light Hue Using Nanoscale Colorants	201580062938.9 CN107075280A	10-15-15 08-18-2017		
C3 Nano, Inc.	Xiqiang Yang, Yadong Cao, Yongxing Hu, Hua Gu, Ying-Syi Li, and Ajay Virkar	Hong Kong	Transparent Films With Control Of Light Hue Using Nanoscale Colorants	18101955.1 1242722A	02-08-2018 06-29-2018		
C3 Nano, Inc.	Xiqiang Yang, Yadong Cao, Yongxing Hu, Hua Gu, Ying-Syi Li, and Ajay Virkar	Japan	Transparent Films With Control Of Light Hue Using Nanoscale Colorants	2017-520512 2017-539047	10-15-15 12-28-2017	6755244	08-27-2020
C3 Nano, Inc.	Xiqiang Yang, Yadong Cao, Yongxing Hu, Hua Gu, Ying-Syi Li, and Ajay Virkar	Japan	Transparent Films With Control Of Light Hue Using Nanoscale Colorants	2020-072935 2020-125483	04-15-2020 08-20-2020		
C3 Nano, Inc.	Xiqiang Yang, Yadong Cao, Yongxing Hu, Hua Gu, Ying-Syi Li, and Ajay Virkar	Korea	Transparent Films With Control Of Light Hue Using Nanoscale Colorants	10-2017-7013238	10-15-15		

C3 Nano, Inc.	Yongxing Hu, Xiqiang Yang, Ying-Syi Li, Alexander Seung-il Hong, Melanie Mariko Inouye, Yadong Cao, Ajay Virkar	USA	Transparent Conductive Film	62/142,870	04-03-2015		
C3 Nano, Inc.	Yongxing Hu, Xiqiang Yang, Ying-Syi Li, Alexander Seung-il Hong, Melanie Mariko Inouye, Yadong Cao, Ajay Virkar	USA	Transparent Conductive Film	14/823,001 2016-0293288 A1	08/11/2015 10/06/2016	9,530,534	12/27/2016
C3 Nano, Inc.	Yongxing Hu, Xiqiang Yang, Ying-Syi Li, Alexander Seung-il Hong, Melanie Mariko Inouye, Yadong Cao, Ajay Virkar	USA	Noble Metal Coated Silver Nanowires, Methods For Performing The Coating (DIV)	15/354,733 2017-0067166 A1	11/17/2016 03/09/2017		
C3 Nano, Inc.	Yongxing Hu, Xiqiang Yang, Ying-Syi Li, Alexander Seung-il Hong, Melanie Mariko Inouye, Yadong Cao, Ajay Virkar	Taiwan	Noble Metal Coated Silver Nanowires, Methods for Performing the Coating and Stabilized Transparent Conductive Films	105110634 201642280	4/1/2016 12-1-2016		
C3 Nano, Inc.	Yongxing Hu, Xiqiang Yang, Ying-Syi Li, Alexander Seung-il Hong, Melanie Mariko Inouye, Yadong Cao, Ajay Virkar	China	Noble Metal Coated Silver Nanowires, Methods for Performing the Coating and Stabilized Transparent Conductive Films	201680027045. 5 CN107851973A	03/29/2016 03/27/2018		
C3 Nano, Inc.	Yongxing Hu, Xiqiang Yang, Ying-Syi Li, Alexander Seung-il Hong, Melanie Mariko Inouye, Yadong Cao, Ajay Virkar	Japan	Noble Metal Coated Silver Nanowires, Methods for Performing the Coating and Stabilized Transparent Conductive Films	2017-551648 2018-514060	03/29/2016 05-31-2018	6752217	08-20-2020
C3 Nano, Inc.	Yongxing Hu, Xiqiang Yang, Ying-Syi Li, Alexander Seung-il Hong, Melanie Mariko Inouye, Yadong Cao, Ajay Virkar	Japan	Noble Metal Coated Silver Nanowires, Methods for Performing the Coating and Stabilized Transparent Conductive Films	2020-138079 2020-190034	08-18-2020 11-26-2020		

C3 Nano, Inc.	Yongxing Hu, Xiqiang Yang, Ying-Syi Li, Alexander Seung-il Hong, Melanie Mariko Inouye, Yadong Cao, Ajay Virkar	Korea	Noble Metal Coated Silver Nanowires, Methods for Performing the Coating and Stabilized Transparent Conductive Films	10-2017-7031916	03/29/2016		
C3 Nano, Inc.	Yongxing Hu, Alexander Seung-il Hong, Ying-Syi Li, Xiqiang Yang, Yadong Cao, Ajay Virkar	Taiwan	Methods For Synthesizing Silver Nanoplates And Nobel Metal Coated Silver Nanoplates And Their Use In Transparent Films For Control Of Light Hue	105140805 201730374	12-09-2016 09-01-2017		
C3 Nano, Inc.	Yongxing Hu, Alexander Seung-il Hong, Ying-Syi Li, Xiqiang Yang, Yadong Cao, Ajay Virkar	USA	Methods For Synthesizing Silver Nanoplates And Nobel Metal Coated Silver Nanoplates And Their Use In Transparent Films For Control Of Light Hue	14/963,974 2017/0169911 A1	12/9/2015 06-15-2017	10,147,512	12-04-2018
C3 Nano, Inc.	Yongxing Hu, Alexander Seung-il Hong, Ying-Syi Li, Xiqiang Yang, Yadong Cao, Ajay Virkar	USA	Methods For Synthesizing Silver Nanoplates And Nobel Metal Coated Silver Nanoplates And Their Use In Transparent Films For Control Of Light Hue	16/174,433 2019-0066863 A1	10-30-2018 02-28-2019	10,902,965	01-26-2021
C3 Nano, Inc.	Yongxing Hu, Alexander Seung-il Hong, Ying-Syi Li, Xiqiang Yang, Yadong Cao, Ajay Virkar	USA	Methods For Synthesizing Silver Nanoplates And Nobel Metal Coated Silver Nanoplates And Their Use In Transparent Films For Control Of Light Hue	17/132,327	12-23-2020		
C3 Nano, Inc.	Yongxing Hu, Alexander Seung-il Hong, Ying-Syi Li, Xiqiang Yang, Yadong Cao, Ajay Virkar	China	Methods For Synthesizing Silver Nanoplates And Nobel Metal Coated Silver Nanoplates And Their Use In Transparent Films For Control Of Light Hue	201680077547. 9 CN108699284A	12/02/2016 10/23/2018		

C3 Nano, Inc.	Yongxing Hu, Alexander Seung-il Hong, Ying-Syi Li, Xiqiang Yang, Yadong Cao, Ajay Virkar	Japan	Methods For Synthesizing Silver Nanoplates And Nobel Metal Coated Silver Nanoplates And Their Use In Transparent Films For Control Of Light Hue	2018-530051	12/02/2016		
C3 Nano, Inc.	Yongxing Hu, Alexander Seung-il Hong, Ying-Syi Li, Xiqiang Yang, Yadong Cao, Ajay Virkar	Korea	Methods For Synthesizing Silver Nanoplates And Nobel Metal Coated Silver Nanoplates And Their Use In Transparent Films For Control Of Light Hue	10-2018-7019511	12/02/2016		
C3 Nano, Inc.	Xiqiang Yang, Yongxing Hu, Ajay Virkar, Arthur Yung-Chi Cheng, Faraz Azadi Manzour, Ying-Syi Li	Taiwan	Stabilized Sparse Metal Conductive Films And Solutions For Delivery Of Stabilizing Compounds	106134739	10/11/2017		
C3 Nano, Inc.	Xiqiang Yang, Yongxing Hu, Ajay Virkar, Arthur Yung-Chi Cheng, Faraz Azadi Manzour, Ying-Syi Li	USA	Stabilized Sparse Metal Conductive Films And Solutions For Delivery Of Stabilizing Compounds	15/730,053 2018-0105704 A1	10-11-2017 04-19-2018		
C3 Nano, Inc.	Xiqiang Yang, Yongxing Hu, Ajay Virkar, Arthur Yung-Chi Cheng, Faraz Azadi Manzour, Ying-Syi Li	PCT	Stabilized Sparse Metal Conductive Films And Solutions For Delivery Of Stabilizing Compounds	PCT/US2017/0 56134 WO2018/07153 8	10-11-2017 04-19-2018		
C3 Nano, Inc.	Xiqiang Yang, Yongxing Hu, Ajay Virkar, Arthur Yung-Chi Cheng, Faraz Azadi Manzour, Ying-Syi Li	China	Stabilized Sparse Metal Conductive Films And Solutions For Delivery Of Stabilizing Compounds	201780063445. 6 CN109804439	10-11-2017 05-24-2019		
C3 Nano, Inc.	Xiqiang Yang, Yongxing Hu, Ajay Virkar, Arthur Yung-Chi Cheng, Faraz Azadi Manzour, Ying-Syi Li	Hong Kong	Stabilized Sparse Metal Conductive Films And Solutions For Delivery Of Stabilizing Compounds	19132270.0 HK40008989	11-15-2019 06-19-2020		
C3 Nano, Inc.	Xiqiang Yang, Yongxing Hu, Ajay Virkar, Arthur Yung-Chi Cheng, Faraz Azadi Manzour, Ying-Syi Li	EPO	Stabilized Sparse Metal Conductive Films And Solutions For Delivery Of Stabilizing Compounds	17861111.7 3526801	10-11-2017 08-21-2019		

C3 Nano, Inc.	Xiqiang Yang, Yongxing Hu, Ajay Virkar, Arthur Yung-Chi Cheng, Faraz Azadi Manzour, Ying-Syi Li	Japan	Stabilized Sparse Metal Conductive Films And Solutions For Delivery Of Stabilizing Compounds	2019-520156 2019-537820	10-11-2017 12-26-2019		
C3 Nano, Inc.	Xiqiang Yang, Yongxing Hu, Ajay Virkar, Arthur Yung-Chi Cheng, Faraz Azadi Manzour, Ying-Syi Li	Korea	Stabilized Sparse Metal Conductive Films And Solutions For Delivery Of Stabilizing Compounds	10-2019-7011179	10-11-2017		
C3 Nano, Inc.	Yongxing Hu, Ying-Syi Li, Xiqiang Yang, Jinh Shun Ang, Ajay Virkar	USA	Thin And Uniform Silver Nanowires, Method Of Synthesis And Transparent Conductive Films Formed From The Nanowires (claims benefit)	15/951,758 2019-0172600	04-12-2018 06-06-2019	10,714,230	07-14-2020
C3 Nano, Inc.	Yongxing Hu, Ying-Syi Li, Xiqiang Yang, Jinh Shun Ang, Ajay Virkar	USA	Thin And Uniform Silver Nanowires, Method Of Synthesis And Transparent Conductive Films Formed From The Nanowires (Div.)	16/249,249 2019-0172602	01-16-2019 06-06-2019	10,438,714	10-08-2019
C3 Nano, Inc.	Yongxing Hu, Ying-Syi Li, Xiqiang Yang, Jinh Shun Ang, Ajay Virkar	USA	Thin And Uniform Silver Nanowires, Method Of Synthesis And Transparent Conductive Films Formed From The Nanowires (Cont.)	16/549,204 2019-0378633	08-23-2019 12-12-2019		
C3 Nano, Inc.	Yongxing Hu, Ying-Syi Li, Xiqiang Yang, Jinh Shun Ang, Ajay Virkar	Taiwan	Thin And Uniform Silver Nanowires, Method Of Synthesis And Transparent Conductive Films Formed From The Nanowires	107143804 TW201925487 A	12-06-2018 07-01-2019	I686487	03-1-2020
C3 Nano, Inc.	Yongxing Hu, Ying-Syi Li, Xiqiang Yang, Jinh Shun Ang, Ajay Virkar	Taiwan	Thin And Uniform Silver Nanowires, Method Of Synthesis And Transparent Conductive Films Formed From The Nanowires	108136063	10-04-2019		
C3 Nano, Inc.	Yongxing Hu, Ying-Syi Li, Xiqiang Yang, Jinh Shun Ang, Ajay Virkar	China	Thin And Uniform Silver Nanowires, Method Of Synthesis And Transparent Conductive Films Formed From The Nanowires	201880086347. 9 CN111602209A	12-05-2018 08-28-2020		

C3 Nano, Inc.	Yongxing Hu, Ying-Syi Li, Xiqiang Yang, Jinh Shun Ang, Ajay Virkar	EPO	Thin And Uniform Silver Nanowires, Method Of Synthesis And Transparent Conductive Films Formed From The Nanowires	18886188.4.	12-05-2018		
C3 Nano, Inc.	Yongxing Hu, Ying-Syi Li, Xiqiang Yang, Jinh Shun Ang, Ajay Virkar	Japan	Thin And Uniform Silver Nanowires, Method Of Synthesis And Transparent Conductive Films Formed From The Nanowires	2020-531147	12-05-2018		
C3 Nano, Inc.	Yongxing Hu, Ying-Syi Li, Xiqiang Yang, Jinh Shun Ang, Ajay Virkar	Korea	Thin And Uniform Silver Nanowires, Method Of Synthesis And Transparent Conductive Films Formed From The Nanowires	10-2020-7019236 10-2020-0090899A	12-05-2018 07-29-2020		
C3 Nano, Inc.	Xiqiang Yang, Yadong Cao, Ajay Virkar	USA	Silver-Based Transparent Conductive Layers Interfaced With Copper Traces and Methods For Forming The Structures	16/417,692 2019-0364665	05-21-2019 11-28-2019		
C3 Nano, Inc.	Xiaofeng Chen, Byunghwan Kang, Jackie Chen, Yadong Cao, Vicki Luo, Arthur Yung-Chi Cheng, Andrew Hyeongjoo Moon, Xiqiang Yang, Ajay Virkar	USA	Thin Flexible Structure With Surfaces With Transparent Conductive Films And Processes For Forming The Structures	16/259,302 2020-0245457	01-28-2019 07-30-2020		
C3 Nano, Inc.	Xiaofeng Chen, Byunghwan Kang, Jackie Chen, Yadong Cao, Vicki Luo, Arthur Yung-Chi Cheng, Andrew Hyeongjoo Moon, Xiqiang Yang, Ajay Virkar	Taiwan	Thin Flexible Structure With Surfaces With Transparent Conductive Films And Processes For Forming The Structures	109102669	01-22-2020		

C3 Nano, Inc.	Xiaofeng Chen, Byunghwan Kang, Jackie Chen, Yadong Cao, Vicki Luo, Arthur Yung-Chi Cheng, Andrew Hyeongjoo Moon, Xiqiang Yang, Ajay Virkar	PCT	Thin Flexible Structure With Surfaces With Transparent Conductive Films And Processes For Forming The Structures	PCT/US2020/015218 WO 2020/159874	01-27-2020 08-06-2020		
C3 Nano, Inc.	Xiqiang Yang, Ajay Virkar	USA	Coatings And Processing Of Transparent Conductive Films For Stabilization Of Sparse Metal Conductive Layers	16/950,246	11-17-2020		
C3 Nano, Inc.	Xiqiang Yang, Ajay Virkar	Taiwan	Coatings And Processing Of Transparent Conductive Films For Stabilization Of Sparse Metal Conductive Layers	109140374	11-18-2020		
C3 Nano, Inc.	Xiqiang Yang, Ajay Virkar	PCT	Coatings And Processing Of Transparent Conductive Films For Stabilization Of Sparse Metal Conductive Layers	PCT/US2020/060876	11-17-2020		
C3 Nano, Inc.	Faraz Azadi Manzour, Alexander Seung-il Hong, Salman Mansoor Farooqui, Xiqiang Yang, Ajay Virkar	USA	Transparent Polymer Hardcoats With Antimicrobial Efficacy (Prov)	63/059,564	07-31-2020		

Trademark Registrations & Trademark Applications

<u>Grantor</u>	<u>Jurisdiction</u>	<u>Trademark</u>	<u>App. No.</u>	<u>App. Date</u>	<u>Reg. No.</u>	<u>Reg. Date</u>
C3 Nano, Inc.	USA	C3Nano®	N/A	N/A	5,533,463	August 7, 2018
C3 Nano, Inc.	USA	Nanoglue®	N/A	N/A	5,723,953	April 9, 2019
C3 Nano, Inc.	USA	Activegrid®	N/A	N/A	6,073,924	June 9, 2020

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