

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| JEDIDIAH LONG | 01/27/2023 |
| AUSTIN STAUB | 01/27/2023 |
| NICHOLAS CIPARRO | 01/27/2023 |
| RECEIVING PARTY DATA | |
| Name: | CR NANO, INC. |
| Street Address: | 2409 SYCAMORE DR. |
| City: | KNOXVILLE |
| State/Country: | TENNESSEE |
| Postal Code: | 37921 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 18167604 |
| CORRESPONDENCE DATA | |
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| ATTORNEY DOCKET NUMBER: | 30650_00 / 22003 |
| NAME OF SUBMITTER: | STEPHEN D. ADAMS |
| SIGNATURE: | /StephenDAdams/ |
| DATE SIGNED: | 02/10/2023 |
| Total Attachments: 4 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif | |

ASSIGNMENT

We, the following inventor(s): **Jedidiah LONG; Austin STAUB; and Nicholas CIPARRO**, (hereinafter, collectively, the "**Inventors**") have made a new and useful invention and embodiments of that invention are described in a Non-Provisional Patent Application entitled:

MECHANOCHEMICAL PRODUCTION OF TUNABLE PLANAR MATERIALS

that has been or is intended to be filed in the United States Patent & Trademark Office ("**USPTO**").

In consideration of one dollar and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and intending to be legally bound, the Inventors do hereby sell, assign and transfer to:

CR Nano, Inc.,

a company organized and existing under the laws of the State of Tennessee and that has a principal place of business located in Knoxville, Tennessee, its successors, assigns and legal representatives (collectively, the "**Assignee**"), the entire right, title and interest, for all countries, in and to any and all inventions, discoveries and improvements (collectively, the "**Inventions**") which have been disclosed and claimed or not claimed in the aforementioned patent applications and also in all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed on any of said Inventions, and in and to all original and reissue patents which shall be issued by the United States or any other country on any of said Inventions. This assignment includes the right to file and prosecute any and all such applications, and the right to sue and recover for any and all infringements of any of said patents.

The Inventors hereby authorize and request the Director of the USPTO to issue to said Assignee, any and all United States Letters Patent on said Inventions, or any of them, disclosed in the aforementioned U.S. Patent Application, in accordance with this assignment. We also authorize and request the patent office of each country in which a corresponding patent application is filed to issue to said Assignee, any and all patents on said Inventions, or any of them, disclosed in the aforementioned U.S. Patent Application, in accordance with this assignment.

We agree that, when requested, without charge but at the expense of said Assignee, to carry out in good faith the intent and purpose of this assignment, we will, for all countries, (1) execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on any and all of said Inventions, (2) execute all rightful oaths, declarations and other papers, (3) communicate to said Assignee, all facts known to us relating to said Inventions and the history thereof, (4) testify in all legal proceedings relating to said Inventions and/or said patent applications and/or patents, and (5) generally do everything reasonably necessary, as required by said Assignee to aid in securing, maintaining and enforcing proper patent protection for said Inventions, and for vesting title to the same, as well as to patent applications and patents covering said Inventions, in said Assignee.

We do hereby covenant with said Assignee, for ourselves and our heirs, legal representatives and assigns, that we (1) have not and will not execute any instrument or perform any act in conflict herewith, and (2) will at all times do such acts and execute such papers, without expense to us, as may be necessary or desirable (a) in order to fully protect said Inventions and said patent applications and patents pertaining thereto, for the benefit of said Assignee and (b) to give full force and effect to this assignment. We furthermore agree and affirm that have the unrestricted right to make the conveyance set forth herein.

Executed this 27th day of January, 2023.

By: Jedidiah LONG
Jedidiah LONG

State of Tennessee)

County of Knox)

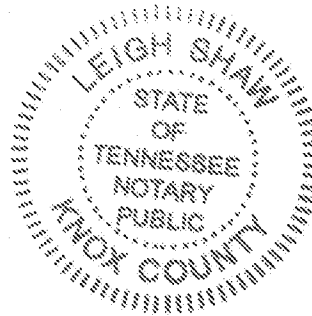
Personally appeared before me, a notary public in and for said county, appeared on this 27th day of January 2023, **Jedidiah LONG**, who is personally know to me to be the person who is described in and who executed the above instrument, and he acknowledged that he executed the same of his own free will for the purposes set for therein.

State of TN County of Knox

Sworn to and subscribed before me this 27th day

of January, 20 23

Leigh Shaw 10/3/26
Notary's Signature and Seal My commission expires:



Executed this 27 day of January, 2023.

By: [Signature]
Austin STAUB

State of Tennessee)

County of Knox)

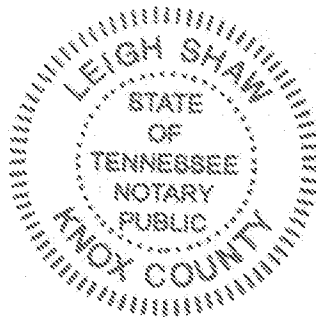
Personally appeared before me, a notary public in and for said county, appeared on this 27th day of January 2023, Austin STAUB, who is personally know to me to be the person who is described in and who executed the above instrument, and he acknowledged that he executed the same of his own free will for the purposes set for therein.

State of TN County of Knox

Sworn to and subscribed before me this 27 day

of January, 20 23

[Signature] 10/3/26
Notary's Signature and Seal My commission expires:



Executed this 27 day of January, 2023.

By: _____

Nicholas CIPARRO

State of Tennessee)

County of Knox)

Personally appeared before me, a notary public in and for said county, appeared on this 27 day of January 2023, **Nicholas CIPARRO**, who is personally know to me to be the person who is described in and who executed the above instrument, and he acknowledged that he executed the same of his own free will for the purposes set for therein.

State of TN County of Knox

Sworn to and subscribed before me this 27th day

of January, 20 23

Leigh Shaw 10/3/26
Notary's Signature and Seal My commission expires:

