

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT6048501

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
TSUKASA TORIMOTO	03/17/2020
TATSUYA KAMEYAMA	03/17/2020
YUKI MORI	03/25/2020
HIROKI YAMAUCHI	03/22/2020
SUSUMU KUWABATA	03/25/2020
TARO UEMATSU	03/25/2020
DAISUKE OYAMATSU	03/19/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NATIONAL UNIVERSITY CORPORATION NAGOYA UNIVERSITY
<b>Street Address:</b>	1, FURO-CHO, CHIKUSA-KU
<b>City:</b>	NAGOYA-SHI, AICHI-KEN
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	464-8601
<b>Name:</b>	OSAKA UNIVERSITY
<b>Street Address:</b>	1-1, YAMADAOKA, SUITA-SHI,
<b>City:</b>	OSAKA
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	565-0871
<b>Name:</b>	NICHIA CORPORATION
<b>Street Address:</b>	491-100, OKA, KAMINAKA-CHO,
<b>City:</b>	ANAN-SHI, TOKUSHIMA
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	774-8601
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16733633
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(202)662-2739

***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:** 2026622700  
**Email:** coparaugo@huntonak.com  
**Correspondent Name:** HUNTON ANDREWS KURTH LLP  
**Address Line 1:** 2200 PENNSYLVANIA AVE. NW,  
**Address Line 4:** WASHINGTON, D.C. 20037

<b>ATTORNEY DOCKET NUMBER:</b>	119084.0000026
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<b>NAME OF SUBMITTER:</b>	CHARISMA OPARAUGO
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<b>SIGNATURE:</b>	/Charisma Oparaugo/
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<b>DATE SIGNED:</b>	04/06/2020
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**Total Attachments: 20**

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## ASSIGNMENT

WHEREAS, I/WE,

**Tsukasa TORIMOTO,**  
c/o NATIONAL UNIVERSITY CORPORATION NAGOYA UNIVERSITY,  
1, Furo-cho, Chikusa-ku, Nagoya-shi, Aichi-ken 464-8601 Japan

**Tatsuya KAMEYAMA,**  
c/o NATIONAL UNIVERSITY CORPORATION NAGOYA UNIVERSITY,  
1, Furo-cho, Chikusa-ku, Nagoya-shi, Aichi-ken 464-8601 Japan

**Yuki MORI,**  
c/o NATIONAL UNIVERSITY CORPORATION NAGOYA UNIVERSITY,  
1, Furo-cho, Chikusa-ku, Nagoya-shi, Aichi-ken 464-8601 Japan

**Hiroki YAMAUCHI,**  
c/o NATIONAL UNIVERSITY CORPORATION NAGOYA UNIVERSITY,  
1, Furo-cho, Chikusa-ku, Nagoya-shi, Aichi-ken 464-8601 Japan

**Susumu KUWABATA,**  
c/o OSAKA UNIVERSITY,  
1-1, Yamadaoka, Suita-shi, Osaka 565-0871 Japan

**Taro UEMATSU,**  
c/o OSAKA UNIVERSITY,  
1-1, Yamadaoka, Suita-shi, Osaka 565-0871 Japan

and

**Daisuke OYAMATSU,**  
c/o NICHIA CORPORATION,  
491-100, Oka, Kaminaka-cho, Anan-shi, Tokushima 774-8601 Japan

have made one or more new and useful inventions and/or discoveries as described and/or claimed in a United States non-provisional patent application entitled **SEMICONDUCTOR NANOPARTICLE, METHOD FOR MANUFACTURING SAME, AND LIGHT EMITTING DEVICE**, filed as application number 16/815359 on March 11, 2020 (hereinafter referred to as "the Application");<sup>1</sup>

---

<sup>1</sup> In the event the Application is not identified in the spaces above by application number and filing date, I hereby authorize and request Andrews Kurth Kenyon LLP to insert the application number and filing date of the Application in the spaces above when known.

WHEREAS, NATIONAL UNIVERSITY CORPORATION NAGOYA UNIVERSITY, a corporation organized under the laws of JAPAN, with a place of business at **1, Furo-cho, Chikusa-ku, Nagoya-shi, Aichi-ken 464-8601 Japan**, and OSAKA UNIVERSITY, a corporation organized under the laws of JAPAN, with a place of business at **1-1, Yamadaoka, Suita-shi, Osaka 565-0871 Japan** and Nichia Corporation, a company organized under the laws of JAPAN, with a place of business at **491-100, Oka, Kaminaka-cho, Anan-shi, Tokushima 774-8601 Japan** (hereinafter referred to as "the Assignee"), is desirous of acquiring the title, rights, interests, benefits and privileges herein recited;

NOW, THEREFORE, for valuable consideration furnished by Assignee to me/us, the receipt and sufficiency of which is hereby acknowledged, I/we hereby, without reservations:

1. Assign, transfer, and convey to Assignee the entire right, title, and interest in and to the Application, any and all inventions and discoveries therein described and/or claimed, and any and all Letters Patent that may be issued upon the Application, or for the inventions or discoveries therein contained, or upon any application based upon or claiming priority to the Application, in any and all countries, including all non-provisional, divisional, continuation, renewal, substitute, reissue, reexamination, international (including under the Patent Cooperation Treaty) and Convention applications, and any and all reissues and extensions of Letters Patent granted based upon the Application, for said inventions and discoveries, or upon any application based upon or claiming priority to the Application, and every priority right that is or may be predicated upon or arise from the Application, said inventions and discoveries, or any application based upon or claiming priority to the Application.

2. Authorize Assignee to file patent applications in any or all countries for any or all of said inventions and discoveries in my/our name(s) or in the name of Assignee or otherwise as Assignee may deem advisable.

3. Authorize and request the Commissioner for Patents of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title, and interest therein or otherwise as Assignee may direct.

4. Warrant that I/we have not knowingly conveyed to others any right, title or interest in said inventions, discoveries, applications, or patents or any license to use the same or to make, use, or sell anything embodying or utilizing any of said inventions or discoveries; that I/we have good right to assign the same to Assignee without encumbrance; and that I/we are aware of no claim to the contrary.

5. Bind my/our heirs, legal representatives, and assigns, as well as myself/ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to me/us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications, and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by me/us, my/our heirs, legal representatives, and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and

oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to me/us relating to said inventions and discoveries or the history thereof; to furnish Assignee with any and all documents, photographs, models, samples, and other physical exhibits in my/our control or in the control of my/our heirs, legal representatives, or assigns which may be useful for establishing the facts of my/our conceptions, disclosures, and reduction to practice of said inventions and discoveries; and to testify, upon Assignee's request, to the same in any interference, arbitration, litigation or other proceeding pertaining to the said inventions and discoveries, the said patent applications, and/or the said Letters Patent.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 17<sup>th</sup>  
day of March, 2020

Tsukasa Torimoto  
Tsukasa TORIMOTO

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 17<sup>th</sup>  
day of March, 2020

Tatsuya Kameyama  
Tatsuya KAMEYAMA

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 25<sup>th</sup>  
day of March, 2020

Yuki MORI  
Yuki MORI

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this \_\_\_\_  
day of \_\_\_\_\_, 2020

\_\_\_\_\_  
Hiroki YAMAUCHI

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this \_\_\_\_  
day of \_\_\_\_\_, 2020

\_\_\_\_\_  
**Susumu KUWABATA**

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this \_\_\_\_  
day of \_\_\_\_\_, 2020

\_\_\_\_\_  
**Taro UEMATSU**

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this \_\_\_\_  
day of \_\_\_\_\_, 2020

\_\_\_\_\_  
**Daisuke OYAMATSU**

## ASSIGNMENT

WHEREAS, I/WE,

**Tsukasa TORIMOTO,**  
c/o NATIONAL UNIVERSITY CORPORATION NAGOYA UNIVERSITY,  
1, Furo-cho, Chikusa-ku, Nagoya-shi, Aichi-ken 464-8601 Japan

**Tatsuya KAMEYAMA,**  
c/o NATIONAL UNIVERSITY CORPORATION NAGOYA UNIVERSITY,  
1, Furo-cho, Chikusa-ku, Nagoya-shi, Aichi-ken 464-8601 Japan

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1, Furo-cho, Chikusa-ku, Nagoya-shi, Aichi-ken 464-8601 Japan

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1-1, Yamadaoka, Suita-shi, Osaka 565-0871 Japan

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c/o OSAKA UNIVERSITY,  
1-1, Yamadaoka, Suita-shi, Osaka 565-0871 Japan

and

**Daisuke OYAMATSU,**  
c/o NICHIA CORPORATION,  
491-100, Oka, Kaminaka-cho, Anan-shi, Tokushima 774-8601 Japan

have made one or more new and useful inventions and/or discoveries as described and/or claimed in a United States non-provisional patent application entitled **SEMICONDUCTOR NANOPARTICLE, METHOD FOR MANUFACTURING SAME, AND LIGHT EMITTING DEVICE**, filed as application number 16/815359 on March 11, 2020 (hereinafter referred to as "the Application");<sup>1</sup>

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IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this \_\_\_\_  
day of \_\_\_\_\_, 2020

\_\_\_\_\_  
**Tsukasa TORIMOTO**

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this \_\_\_\_  
day of \_\_\_\_\_, 2020

\_\_\_\_\_  
**Tatsuya KAMEYAMA**

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this \_\_\_\_  
day of \_\_\_\_\_, 2020

\_\_\_\_\_  
**Yuki MORI**

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 22<sup>nd</sup>  
day of March, 2020

Hiroki Yamauchi  
**Hiroki YAMAUCHI**

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this \_\_\_\_  
day of \_\_\_\_\_, 2020

\_\_\_\_\_  
**Susumu KUWABATA**

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this \_\_\_\_  
day of \_\_\_\_\_, 2020

\_\_\_\_\_  
**Taro UEMATSU**

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this \_\_\_\_  
day of \_\_\_\_\_, 2020

\_\_\_\_\_  
**Daisuke OYAMATSU**

## ASSIGNMENT

WHEREAS, I/WE,

**Tsukasa TORIMOTO,**  
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**Tatsuya KAMEYAMA,**  
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1, Furo-cho, Chikusa-ku, Nagoya-shi, Aichi-ken 464-8601 Japan

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have made one or more new and useful inventions and/or discoveries as described and/or claimed in a United States non-provisional patent application entitled **SEMICONDUCTOR NANOPARTICLE, METHOD FOR MANUFACTURING SAME, AND LIGHT EMITTING DEVICE**, filed as application number 16/815359 on March 11, 2020 (hereinafter referred to as "the Application");<sup>1</sup>

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IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this \_\_\_\_  
day of \_\_\_\_\_, 2020

\_\_\_\_\_  
**Tsukasa TORIMOTO**

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this \_\_\_\_  
day of \_\_\_\_\_, 2020

\_\_\_\_\_  
**Tatsuya KAMEYAMA**

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this \_\_\_\_  
day of \_\_\_\_\_, 2020

\_\_\_\_\_  
**Yuki MORI**

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this \_\_\_\_  
day of \_\_\_\_\_, 2020

\_\_\_\_\_  
**Hiroki YAMAUCHI**



IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this \_\_\_\_  
day of \_\_\_\_\_, 2020

\_\_\_\_\_  
**Susumu KUWABATA**

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this \_\_\_\_  
day of \_\_\_\_\_, 2020

\_\_\_\_\_  
**Taro UEMATSU**

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 19<sup>th</sup>  
day of March, 2020

*Daisuke Oyamatsu*  
\_\_\_\_\_  
**Daisuke OYAMATSU**

## ASSIGNMENT

WHEREAS, I/WE,

**Tsukasa TORIMOTO,**

c/o NATIONAL UNIVERSITY CORPORATION NAGOYA UNIVERSITY,  
1, Furo-cho, Chikusa-ku, Nagoya-shi, Aichi-ken 464-8601 Japan

**Tatsuya KAMEYAMA,**

c/o NATIONAL UNIVERSITY CORPORATION NAGOYA UNIVERSITY,  
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**Yuki MORI,**

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**Hiroki YAMAUCHI,**

c/o NATIONAL UNIVERSITY CORPORATION NAGOYA UNIVERSITY,  
1, Furo-cho, Chikusa-ku, Nagoya-shi, Aichi-ken 464-8601 Japan

**Susumu KUWABATA,**

c/o OSAKA UNIVERSITY,  
1-1, Yamadaoka, Suita-shi, Osaka 565-0871 Japan

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1-1, Yamadaoka, Suita-shi, Osaka 565-0871 Japan

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WHEREAS, NATIONAL UNIVERSITY CORPORATION NAGOYA UNIVERSITY, a corporation organized under the laws of JAPAN, with a place of business at 1, Furo-cho, Chikusa-ku, Nagoya-shi, Aichi-ken 464-8601 Japan, and OSAKA UNIVERSITY, a corporation organized under the laws of JAPAN, with a place of business at 1-1, Yamadaoka, Suita-shi, Osaka 565-0871 Japan and Nichia Corporation, a company organized under the laws of JAPAN, with a place of business at 491-100, Oka, Kaminaka-cho, Anan-shi, Tokushima 774-8601 Japan (hereinafter referred to as "the Assignee"), is desirous of acquiring the title, rights, interests, benefits and privileges herein recited;

NOW, THEREFORE, for valuable consideration furnished by Assignee to me/us, the receipt and sufficiency of which is hereby acknowledged, I/we hereby, without reservations:

1. Assign, transfer, and convey to Assignee the entire right, title, and interest in and to the Application, any and all inventions and discoveries therein described and/or claimed, and any and all Letters Patent that may be issued upon the Application, or for the inventions or discoveries therein contained, or upon any application based upon or claiming priority to the Application, in any and all countries, including all non-provisional, divisional, continuation, renewal, substitute, reissue, reexamination, international (including under the Patent Cooperation Treaty) and Convention applications, and any and all reissues and extensions of Letters Patent granted based upon the Application, for said inventions and discoveries, or upon any application based upon or claiming priority to the Application, and every priority right that is or may be predicated upon or arise from the Application, said inventions and discoveries, or any application based upon or claiming priority to the Application.

2. Authorize Assignee to file patent applications in any or all countries for any or all of said inventions and discoveries in my/our name(s) or in the name of Assignee or otherwise as Assignee may deem advisable.

3. Authorize and request the Commissioner for Patents of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title, and interest therein or otherwise as Assignee may direct.

4. Warrant that I/we have not knowingly conveyed to others any right, title or interest in said inventions, discoveries, applications, or patents or any license to use the same or to make, use, or sell anything embodying or utilizing any of said inventions or discoveries; that I/we have good right to assign the same to Assignee without encumbrance; and that I/we are aware of no claim to the contrary.

5. Bind my/our heirs, legal representatives, and assigns, as well as myself/ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to me/us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications, and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by me/us, my/our heirs, legal representatives, and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and

oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to me/us relating to said inventions and discoveries or the history thereof; to furnish Assignee with any and all documents, photographs, models, samples, and other physical exhibits in my/our control or in the control of my/our heirs, legal representatives, or assigns which may be useful for establishing the facts of my/our conceptions, disclosures, and reduction to practice of said inventions and discoveries; and to testify, upon Assignee's request, to the same in any interference, arbitration, litigation or other proceeding pertaining to the said inventions and discoveries, the said patent applications, and/or the said Letters Patent.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this \_\_\_\_\_  
day of \_\_\_\_\_, 2020

\_\_\_\_\_  
**Tsukasa TORIMOTO**

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this \_\_\_\_\_  
day of \_\_\_\_\_, 2020

\_\_\_\_\_  
**Tatsuya KAMEYAMA**

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this \_\_\_\_\_  
day of \_\_\_\_\_, 2020

\_\_\_\_\_  
**Yuki MORI**

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this \_\_\_\_\_  
day of \_\_\_\_\_, 2020

\_\_\_\_\_  
**Hiroki YAMAUCHI**

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 25<sup>th</sup>  
day of March, 2020

  
Susumu KUWABATA

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 25<sup>th</sup>  
day of March, 2020

  
Taro UEMATSU

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this \_\_\_\_\_  
day of \_\_\_\_\_, 2020

\_\_\_\_\_  
Daisuke OYAMATSU