PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3258585

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YUKIO KASHIMA	02/03/2015
ERIKO MATSUURA	02/03/2015
MITSUNORI KOKUBO	01/27/2015
TAKAHARU TASHIRO	01/26/2015
TAKAFUMI OOKAWA	01/22/2015
HIDEKI HIRAYAMA	01/26/2015
RYUICHIRO KAMIMURA	01/22/2015
YAMATO OSADA	01/22/2015
SATOSHI SHIMATANI	02/02/2015

RECEIVING PARTY DATA

Γ.,	LAARURUN CORRORATION
Name:	MARUBUN CORPORATION
Street Address:	8-1, NIHONBASHI ODENMACHO, CHUO-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	103-8577
Name:	TOSHIBA KIKAI KABUSHIKI KAISHA
Street Address:	2-2, UCHISAIWAICHO 2-CHOME, CHIYODA-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	100-8503
Name:	RIKEN
Street Address:	2-1, HIROSAWA
City:	WAKO-SHI, SAITAMA
State/Country:	JAPAN
Postal Code:	351-0198
Name:	ULVAC, INC.
Street Address:	2500, HAGISONO,
City:	CHIGASAKI-SHI, KANAGAWA
State/Country:	JAPAN
Postal Code:	253-8543

PATENT REEL: 035127 FRAME: 0646

503211968

Name:	TOKYO OHKA KOGYO CO., LTD.
Street Address:	150, NAKAMARUKO, NAKAHARA-KU,
City:	KAWASAKI-SHI, KANAGAWA
State/Country:	JAPAN
Postal Code:	211-0012

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14426328

CORRESPONDENCE DATA

Fax Number: (612)455-3801

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: 6124553800 **Email:** adoyle@hsml.com

Correspondent Name: HAMRE, SCHUMANN, MUELLER & LARSON, P.C.

Address Line 1: P.O. BOX 2902

Address Line 4: MINNEAPOLIS, MINNESOTA 55402

ATTORNEY DOCKET NUMBER:	20219.0017USWO
NAME OF SUBMITTER:	DOUGLAS P. MUELLER
SIGNATURE:	/Douglas P. Mueller/
DATE SIGNED:	03/10/2015

Total Attachments: 15

source=Assignment_0017#page1.tif
source=Assignment_0017#page2.tif
source=Assignment_0017#page3.tif
source=Assignment_0017#page4.tif
source=Assignment_0017#page5.tif
source=Assignment_0017#page6.tif
source=Assignment_0017#page7.tif
source=Assignment_0017#page8.tif
source=Assignment_0017#page9.tif
source=Assignment_0017#page10.tif
source=Assignment_0017#page11.tif

source=Assignment_0017#page12.tif source=Assignment_0017#page13.tif source=Assignment_0017#page14.tif

source=Assignment 0017#page15.tif

ASSIGNMENT OF PATENT APPLICATION

WHEREAS,

- 1. Yukio KASHIMA having an address of c/o Marubun Corporation, 8-1, Nihonbashi Odenmacho, Chuo-ku, Tokyo 103-8577 Japan and a citizen of Japan
- 2. Eriko MATSUURA having an address of c/o Marubun Corporation, 8-1, Nihonbashi Odenmacho, Chuo-ku, Tokyo 103-8577 Japan and a citizen of Japan
- 3. Mitsunori KOKUBO having an address of c/o Toshiba Kikai Kabushiki Kaisha, 2068-3, Ooka, Numazu-shi, Shizuoka 410-8510 Japan and a citizen of Japan
- 4. Takaharu TASHIRO having an address of c/o Toshiba Kikai Kabushiki Kaisha, 2068-3, Ooka, Numazu-shi, Shizuoka 410-8510 Japan and a citizen of Japan
- 5. Takafumi OOKAWA having an address of c/o Toshiba Kikai Kabushiki Kaisha, 2068-3, Ooka, Numazu-shi, Shizuoka 410-8510 Japan and a citizen of Japan
- 6. Hideki HIRAYAMA having an address of c/o RIKEN, 2-1, Hirosawa, Wako-shi, Saitama 351-0198 Japan and a citizen of Japan
- 7. Ryuichiro KAMIMURA having an address of c/o ULVAC, INC., Institute of Semiconductor & Electronics Technologies, 1220-1, Suyama, Susono-shi, Shizuoka 410-1231 Japan and a citizen of Japan
- 8. Yamato OSADA having an address of c/o ULVAC, INC., Institute of Semiconductor & Electronics Technologies, 1220-1, Suyama, Susono-shi, Shizuoka 410-1231 Japan and a citizen of Japan
- 9. Satoshi SHIMATANI having an address of c/o Tokyo Ohka Kogyo Co., Ltd., 150, Nakamaruko, Nakahara-ku, Kawasaki-shi, Kanagawa 211-0012 Japan and a citizen of Japan

(hereinafter called "THE UNDERSIGNED") have made an invention and have executed an application for Letters Patent of the United States for this invention which was filed on October 24, 2014, entitled

DEEP ULTRAVIOLET LED AND METHOD FOR MANUFACTURING THE SAME, and which has been given application serial number PCT/JP2014/078308;

and

WHEREAS, (1) MARUBUN CORPORATION; (2) TOSHIBA KIKAI KABUSHIKI KAISHA; (3) RIKEN; (4) ULVAC, INC.; and (5) TOKYO OHKA KOGYO CO., LTD. (hereinafter "ASSIGNEE") a corporation organized under the laws of Japan and having an office and place of business at (1) 8-1, Nihonbashi Odenmacho, Chuo-ku, Tokyo 103-8577 Japan; (2) 2-2, Uchisaiwaicho 2-chome, Chiyoda-ku, Tokyo 100-8503 Japan; (3) 2-1, Hirosawa, Wako-shi, Saitama 351-0198 Japan; (4) 2500, Hagisono, Chigasaki-shi, Kanagawa 253-8543 Japan; and (5) 150, Nakamaruko, Nakahara-ku, Kawasaki-shi, Kanagawa 211-0012 Japan

wishes to acquire the entire right, title and interest in and to said invention and patent application and any Letters Patent to be obtained therefor;

THE UNDERSIGNED hereby agree that THE UNDERSIGNED, their executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEE, its successors and representatives all facts known to the UNDERSIGNED relating to said invention and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE, it successors or assigns, the entire right, title and interest in and to the said invention, patent applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned and conveyed, or intended so to be.

THE UNDERSIGNED represent and agree with said ASSIGNEE, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by the UNDERSIGNED.

IN TESTIMONY WHEREOF, THE UNDERSIGNED have hereunto set their hand on the dates indicated below.

Yukio Kashima	Feb, 3, 2015
1. Signature: Yukio KASHIMA	Date
Eriko Matsuura 2. Signature: Eriko MATSUURA	Feb. 3, 2015 Date
3. Signature: Mitsunori KOKUBO	Date
4. Signature: Takaharu TASHIRO	Date
5. Signature: Takafumi OOKAWA	Date

6. Signature: Hideki HIRAYAMA	Date
7. Signature: Ryuichiro KAMIMURA	Date
8. Signature: Yamato OSADA	Date
9. Signature: Satoshi SHIMATANI	Date

ASSIGNMENT OF PATENT APPLICATION

WHEREAS,

- 1. Yukio KASHIMA having an address of c/o Marubun Corporation, 8-1, Nihonbashi Odenmacho, Chuo-ku, Tokyo 103-8577 Japan and a citizen of Japan
- 2. Eriko MATSUURA having an address of c/o Marubun Corporation, 8-1, Nihonbashi Odenmacho, Chuo-ku, Tokyo 103-8577 Japan and a citizen of Japan
- 3. Mitsunori KOKUBO having an address of c/o Toshiba Kikai Kabushiki Kaisha, 2068-3, Ooka, Numazu-shi, Shizuoka 410-8510 Japan and a citizen of Japan
- 4. Takaharu TASHIRO having an address of c/o Toshiba Kikai Kabushiki Kaisha, 2068-3, Ooka, Numazu-shi, Shizuoka 410-8510 Japan and a citizen of Japan
- 5. Takafumi OOKAWA having an address of c/o Toshiba Kikai Kabushiki Kaisha, 2068-3, Ooka, Numazu-shi, Shizuoka 410-8510 Japan and a citizen of Japan
- 6. Hideki HIRAYAMA having an address of c/o RIKEN, 2-1, Hirosawa, Wako-shi, Saitama 351-0198 Japan and a citizen of Japan
- 7. Ryuichiro KAMIMURA having an address of c/o ULVAC, INC., Institute of Semiconductor & Electronics Technologies, 1220-1, Suyama, Susono-shi, Shizuoka 410-1231 Japan and a citizen of Japan
- 8. Yamato OSADA having an address of c/o ULVAC, INC., Institute of Semiconductor & Electronics Technologies, 1220-1, Suyama, Susono-shi, Shizuoka 410-1231 Japan and a citizen of Japan
- 9. Satoshi SHIMATANI having an address of c/o Tokyo Ohka Kogyo Co., Ltd., 150, Nakamaruko, Nakahara-ku, Kawasaki-shi, Kanagawa 211-0012 Japan and a citizen of Japan

(hereinafter called "THE UNDERSIGNED") have made an invention and have executed an application for Letters Patent of the United States for this invention which was filed on October 24, 2014, entitled

DEEP ULTRAVIOLET LED AND METHOD FOR MANUFACTURING THE SAME, and which has been given application serial number PCT/JP2014/078308;

and

WHEREAS, (1) MARUBUN CORPORATION; (2) TOSHIBA KIKAI KABUSHIKI KAISHA; (3) RIKEN; (4) ULVAC, INC.; and (5) TOKYO OHKA KOGYO CO., LTD. (hereinafter "ASSIGNEE") a corporation organized under the laws of Japan and having an office and place of business at (1) 8-1, Nihonbashi Odenmacho, Chuo-ku, Tokyo 103-8577 Japan; (2) 2-2, Uchisaiwaicho 2-chome, Chiyoda-ku, Tokyo 100-8503 Japan; (3) 2-1, Hirosawa, Wako-shi, Saitama 351-0198 Japan; (4) 2500, Hagisono, Chigasaki-shi, Kanagawa 253-8543 Japan; and (5) 150, Nakamaruko, Nakahara-ku, Kawasaki-shi, Kanagawa 211-0012 Japan

wishes to acquire the entire right, title and interest in and to said invention and patent application and any Letters Patent to be obtained therefor;

THE UNDERSIGNED hereby agree that THE UNDERSIGNED, their executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEE, its successors and representatives all facts known to the UNDERSIGNED relating to said invention and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE, it successors or assigns, the entire right, title and interest in and to the said invention, patent applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned and conveyed, or intended so to be.

THE UNDERSIGNED represent and agree with said ASSIGNEE, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by the UNDERSIGNED.

IN TESTIMONY WHEREOF, THE UNDERSIGNED have hereunto set their hand on the dates indicated below.

1. Signature: Yukio KASHIMA	Date
2.6	-
2. Signature: Eriko MATSUURA	Date
Mitsunovi (Colculso	January 27, 2015
3. Signature: Mitsunori KOKUBO	Date ∮
Takaharu Tashiro	Jan. 26. 2015
4. Signature: Takaharu TASHIRO	Date
Tapafumi Orpawa. 5. Signature: Takafumi OOKAWA	Jan, 22, 20/5
5. Signature: Takafumi OOKAWA	Date

6. Signature: Hideki HIRAYAMA	Date
7. Signature: Ryuichiro KAMIMURA	Date
8. Signature: Yamato OSADA	Date
9 Signature: Satoshi SHIMATANI	Date

ASSIGNMENT OF PATENT APPLICATION

WHEREAS,

- 1. Yukio KASHIMA having an address of c/o Marubun Corporation, 8-1, Nihonbashi Odenmacho, Chuo-ku, Tokyo 103-8577 Japan and a citizen of Japan
- 2. Eriko MATSUURA having an address of c/o Marubun Corporation, 8-1, Nihonbashi Odenmacho, Chuo-ku, Tokyo 103-8577 Japan and a citizen of Japan
- 3. Mitsunori KOKUBO having an address of c/o Toshiba Kikai Kabushiki Kaisha, 2068-3, Ooka, Numazu-shi, Shizuoka 410-8510 Japan and a citizen of Japan
- 4. Takaharu TASHIRO having an address of c/o Toshiba Kikai Kabushiki Kaisha, 2068-3, Ooka, Numazu-shi, Shizuoka 410-8510 Japan and a citizen of Japan
- 5. Takafumi OOKAWA having an address of c/o Toshiba Kikai Kabushiki Kaisha, 2068-3, Ooka, Numazu-shi, Shizuoka 410-8510 Japan and a citizen of Japan
- 6. Hideki HIRAYAMA having an address of c/o RIKEN, 2-1, Hirosawa, Wako-shi, Saitama 351-0198 Japan and a citizen of Japan
- 7. Ryuichiro KAMIMURA having an address of c/o ULVAC, INC., Institute of Semiconductor & Electronics Technologies, 1220-1, Suyama, Susono-shi, Shizuoka 410-1231 Japan and a citizen of Japan
- 8. Yamato OSADA having an address of c/o ULVAC, INC., Institute of Semiconductor & Electronics Technologies, 1220-1, Suyama, Susono-shi, Shizuoka 410-1231 Japan and a citizen of Japan
- 9. Satoshi SHIMATANI having an address of c/o Tokyo Ohka Kogyo Co., Ltd., 150, Nakamaruko, Nakahara-ku, Kawasaki-shi, Kanagawa 211-0012 Japan and a citizen of Japan

(hereinafter called "THE UNDERSIGNED") have made an invention and have executed an application for Letters Patent of the United States for this invention which was filed on October 24, 2014, entitled

DEEP ULTRAVIOLET LED AND METHOD FOR MANUFACTURING THE SAME, and which has been given application serial number PCT/JP2014/078308;

and

WHEREAS, (1) MARUBUN CORPORATION; (2) TOSHIBA KIKAI KABUSHIKI KAISHA; (3) RIKEN; (4) ULVAC, INC.; and (5) TOKYO OHKA KOGYO CO., LTD. (hereinafter "ASSIGNEE") a corporation organized under the laws of Japan and having an office and place of business at (1) 8-1, Nihonbashi Odenmacho, Chuo-ku, Tokyo 103-8577 Japan; (2) 2-2, Uchisaiwaicho 2-chome, Chiyoda-ku, Tokyo 100-8503 Japan; (3) 2-1, Hirosawa, Wako-shi, Saitama 351-0198 Japan; (4) 2500, Hagisono, Chigasaki-shi, Kanagawa 253-8543 Japan; and (5) 150, Nakamaruko, Nakahara-ku, Kawasaki-shi, Kanagawa 211-0012 Japan

wishes to acquire the entire right, title and interest in and to said invention and patent application and any Letters Patent to be obtained therefor;

THE UNDERSIGNED hereby agree that THE UNDERSIGNED, their executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEE, its successors and representatives all facts known to the UNDERSIGNED relating to said invention and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE, it successors or assigns, the entire right, title and interest in and to the said invention, patent applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned and conveyed, or intended so to be.

THE UNDERSIGNED represent and agree with said ASSIGNEE, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by the UNDERSIGNED.

IN TESTIMONY WHEREOF, THE UNDERSIGNED have hereunto set their hand on the dates indicated below.

1. Signature: Yukio KASHIMA	Date
2. Signature: Eriko MATSUURA	Date
3. Signature: Mitsunori KOKUBO	Date
4. Signature: Takaharu TASHIRO	Date
5. Signature: Takafumi OOKAWA	Date

Hideki Hirayamo	Jan. 26, 2015
6. Signature: Hideki HIRAYAMA	Date
7. Signature: Ryuichiro KAMIMURA	Date
8. Signature: Yamato OSADA	Date
9. Signature: Satoshi SHIMATANI	Date

ASSIGNMENT OF PATENT APPLICATION

WHEREAS,

- 1. Yukio KASHIMA having an address of c/o Marubun Corporation, 8-1, Nihonbashi Odenmacho, Chuo-ku, Tokyo 103-8577 Japan and a citizen of Japan
- 2. Eriko MATSUURA having an address of c/o Marubun Corporation, 8-1, Nihonbashi Odenmacho, Chuo-ku, Tokyo 103-8577 Japan and a citizen of Japan
- 3. Mitsunori KOKUBO having an address of c/o Toshiba Kikai Kabushiki Kaisha, 2068-3, Ooka, Numazu-shi, Shizuoka 410-8510 Japan and a citizen of Japan
- 4. Takaharu TASHIRO having an address of c/o Toshiba Kikai Kabushiki Kaisha, 2068-3, Ooka, Numazu-shi, Shizuoka 410-8510 Japan and a citizen of Japan
- 5. Takafumi OOKAWA having an address of c/o Toshiba Kikai Kabushiki Kaisha, 2068-3, Ooka, Numazu-shi, Shizuoka 410-8510 Japan and a citizen of Japan
- 6. Hideki HIRAYAMA having an address of c/o RIKEN, 2-1, Hirosawa, Wako-shi, Saitama 351-0198 Japan and a citizen of Japan
- 7. Ryuichiro KAMIMURA having an address of c/o ULVAC, INC., Institute of Semiconductor & Electronics Technologies, 1220-1, Suyama, Susono-shi, Shizuoka 410-1231 Japan and a citizen of Japan
- 8. Yamato OSADA having an address of c/o ULVAC, INC., Institute of Semiconductor & Electronics Technologies, 1220-1, Suyama, Susono-shi, Shizuoka 410-1231 Japan and a citizen of Japan
- 9. Satoshi SHIMATANI having an address of c/o Tokyo Ohka Kogyo Co., Ltd., 150, Nakamaruko, Nakahara-ku, Kawasaki-shi, Kanagawa 211-0012 Japan and a citizen of Japan

(hereinafter called "THE UNDERSIGNED") have made an invention and have executed an application for Letters Patent of the United States for this invention which was filed on October 24, 2014, entitled

DEEP ULTRAVIOLET LED AND METHOD FOR MANUFACTURING THE SAME, and which has been given application serial number PCT/JP2014/078308;

and

WHEREAS, (1) MARUBUN CORPORATION; (2) TOSHIBA KIKAI KABUSHIKI KAISHA; (3) RIKEN; (4) ULVAC, INC.; and (5) TOKYO OHKA KOGYO CO., LTD. (hereinafter "ASSIGNEE") a corporation organized under the laws of Japan and having an office and place of business at (1) 8-1, Nihonbashi Odenmacho, Chuo-ku, Tokyo 103-8577 Japan; (2) 2-2, Uchisaiwaicho 2-chome, Chiyoda-ku, Tokyo 100-8503 Japan; (3) 2-1, Hirosawa, Wako-shi, Saitama 351-0198 Japan; (4) 2500, Hagisono, Chigasaki-shi, Kanagawa 253-8543 Japan; and (5) 150, Nakamaruko, Nakahara-ku, Kawasaki-shi, Kanagawa 211-0012 Japan

wishes to acquire the entire right, title and interest in and to said invention and patent application and any Letters Patent to be obtained therefor;

THE UNDERSIGNED hereby agree that THE UNDERSIGNED, their executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEE, its successors and representatives all facts known to the UNDERSIGNED relating to said invention and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE, it successors or assigns, the entire right, title and interest in and to the said invention, patent applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned and conveyed, or intended so to be.

THE UNDERSIGNED represent and agree with said ASSIGNEE, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by the UNDERSIGNED.

IN TESTIMONY WHEREOF, THE UNDERSIGNED have hereunto set their hand on the dates indicated below.

1. Signature: Yukio KASHIMA	Date
2. Signature: Eriko MATSUURA	Date
3. Signature: Mitsunori KOKUBO	Date
4. Signature: Takaharu TASHIRO	Date
5. Signature: Takafumi OOKAWA	Date

6. Signature: Hideki HIRAYAMA	Date
Ryuichiro Kamimura 7. Signature: Ryuichiro KAMIMURA	<u>Jan, 22, 2015</u> Date
Yamato Dsada 8. Signature: Yamato OSADA	Jan. 22, 2015 Date
o. Signature. Tamato OSADA	Date
9. Signature: Satoshi SHIMATANI	Date

ASSIGNMENT OF PATENT APPLICATION

WHEREAS,

- 1. Yukio KASHIMA having an address of c/o Marubun Corporation, 8-1, Nihonbashi Odenmacho, Chuo-ku, Tokyo 103-8577 Japan and a citizen of Japan
- 2. Eriko MATSUURA having an address of c/o Marubun Corporation, 8-1, Nihonbashi Odenmacho, Chuo-ku, Tokyo 103-8577 Japan and a citizen of Japan
- 3. Mitsunori KOKUBO having an address of c/o Toshiba Kikai Kabushiki Kaisha, 2068-3, Ooka, Numazu-shi, Shizuoka 410-8510 Japan and a citizen of Japan
- 4. Takaharu TASHIRO having an address of c/o Toshiba Kikai Kabushiki Kaisha, 2068-3, Ooka, Numazu-shi, Shizuoka 410-8510 Japan and a citizen of Japan
- 5. Takafumi OOKAWA having an address of c/o Toshiba Kikai Kabushiki Kaisha, 2068-3, Ooka, Numazu-shi, Shizuoka 410-8510 Japan and a citizen of Japan
- 6. Hideki HIRAYAMA having an address of c/o RIKEN, 2-1, Hirosawa, Wako-shi, Saitama 351-0198 Japan and a citizen of Japan
- 7. Ryuichiro KAMIMURA having an address of c/o ULVAC, INC., Institute of Semiconductor & Electronics Technologies, 1220-1, Suyama, Susono-shi, Shizuoka 410-1231 Japan and a citizen of Japan
- 8. Yamato OSADA having an address of c/o ULVAC, INC., Institute of Semiconductor & Electronics Technologies, 1220-1, Suyama, Susono-shi, Shizuoka 410-1231 Japan and a citizen of Japan
- 9. Satoshi SHIMATANI having an address of c/o Tokyo Ohka Kogyo Co., Ltd., 150, Nakamaruko, Nakahara-ku, Kawasaki-shi, Kanagawa 211-0012 Japan and a citizen of Japan

(hereinafter called "THE UNDERSIGNED") have made an invention and have executed an application for Letters Patent of the United States for this invention which was filed on October 24, 2014, entitled

DEEP ULTRAVIOLET LED AND METHOD FOR MANUFACTURING THE SAME, and which has been given application serial number PCT/JP2014/078308;

and

WHEREAS, (1) MARUBUN CORPORATION; (2) TOSHIBA KIKAI KABUSHIKI KAISHA; (3) RIKEN; (4) ULVAC, INC.; and (5) TOKYO OHKA KOGYO CO., LTD. (hereinafter "ASSIGNEE") a corporation organized under the laws of Japan and having an office and place of business at (1) 8-1, Nihonbashi Odenmacho, Chuo-ku, Tokyo 103-8577 Japan; (2) 2-2, Uchisaiwaicho 2-chome, Chiyoda-ku, Tokyo 100-8503 Japan; (3) 2-1, Hirosawa, Wako-shi, Saitama 351-0198 Japan; (4) 2500, Hagisono, Chigasaki-shi, Kanagawa 253-8543 Japan; and (5) 150, Nakamaruko, Nakahara-ku, Kawasaki-shi, Kanagawa 211-0012 Japan

wishes to acquire the entire right, title and interest in and to said invention and patent application and any Letters Patent to be obtained therefor;

THE UNDERSIGNED hereby agree that THE UNDERSIGNED, their executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEE, its successors and representatives all facts known to the UNDERSIGNED relating to said invention and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE, it successors or assigns, the entire right, title and interest in and to the said invention, patent applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned and conveyed, or intended so to be.

THE UNDERSIGNED represent and agree with said ASSIGNEE, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by the UNDERSIGNED.

IN TESTIMONY WHEREOF, THE UNDERSIGNED have hereunto set their hand on the dates indicated below.

1. Signature: Yukio KASHIMA	Date	
2. Signature: Eriko MATSUURA	Date	
3. Signature: Mitsunori KOKUBO	Date	
4. Signature: Takaharu TASHIRO	Date	 ,
5. Signature: Takafumi OOKAWA	Date	

6. Signature: Hideki HIRAYAMA	Date
7. Signature: Ryuichiro KAMIMURA	Date
8. Signature: Yamato OSADA	Date
Satoshi SHIMATAUI 9. Signature: Satoshi SHIMATANI	2/2/2015 Date

RECORDED: 03/10/2015