505115233 09/27/2018

PATENT ASSIGNMENT COVER SHEET

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 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------|----------------|
| TOMOHIKO OGATA | 08/27/2018 |
| MASAKI HASEGAWA | 08/27/2018 |
| HISAYA MURAKOSHI | 08/27/2018 |
| KATSUNORI ONUKI | 08/27/2018 |
| NORIYUKI KANEOKA | 08/27/2018 |

RECEIVING PARTY DATA

| Name: | HITACHI HIGH-TECHNOLOGIES CORPORATION |
|-----------------|---------------------------------------|
| Street Address: | 24-14, NISHI-SHIMBASHI 1-CHOME |
| City: | MINATO-KU, TOKYO |
| State/Country: | JAPAN |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16088880 |

CORRESPONDENCE DATA

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NAME OF SUBMITTER: MICHAEL H. JACOBS

SIGNATURE: /Michael H. Jacobs/

DATE SIGNED: 09/27/2018

Total Attachments: 1

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PATENT REEL: 046994 FRAME: 0887

ASSIGNMENT (譲渡証)

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to me citizen of Japan by Hitachi High-Technologies Corporation, a corporation organized under the laws of Japan, located at 24-14, Nishi-Shimbashi 1-chome, Minato-ku, Tokyo, Japan, receipt of which is hereby acknowledged I do hereby sell and assign to said Hitachi High-Technologies Corporation, its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

CHARGED PARTICLE BEAM DEVICE AND METHOD FOR ADJUSTING CHARGED PARTICLE BEAM DEVICE

invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said Hitachi High-Technologies Corporation, its successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said Hitachi High-Technologies Corporation,

Signed on the date(s) indicated aside signatures:

RECORDED: 09/27/2018

| | (発明者フルネームサイン) | Date Signed (署名日) |
|----------------------------|------------------|----------------------|
| 1) _Tomohiko OGATA | Tomohiko Ogata | Aug. 07.2018 |
| 2) Masaki HASEGAWA | Masaki Hasegawa | Aug. 27, 2018 |
| 3) <u>Hisaya MURAKOSHI</u> | Hisaya Muraboshi | Aug. 27 2018 |
| 4) Katsunori ONUKI | Kateunori Onnhi | Aug. 27. 20/A |
| 5) Noriyuki KANEOKA | Moriyuki Łaneoka | Aug. 27 2018 |
| 6) | | |
| 7) | | |
| 8) | | |
| 9) | | |
| 10) | | |

PATENT REEL: 046994 FRAME: 0888