503449412 08/24/2015

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
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| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------|----------------|
| TAKAHIKO MAKINO | 07/03/2015 |

RECEIVING PARTY DATA

| Name: | KYOCERA CORPORATION |
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| City: | KYOTO-SHI, KYOTO |
| State/Country: | JAPAN |
| Postal Code: | 612-8501 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14769989 |

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| NAME OF SUBMITTER: | GERALD B. HALT, JR. |
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| DATE SIGNED: | 08/24/2015 |

Total Attachments: 2

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PATENT 503449412 REEL: 036404 FRAME: 0916

ASSIGNMENT

 $\Phi_{\rm total}(x,x) = -1$

譲渡証書

| (1-8)発明者名 | (1) | (1-8) Name(s) of Inventor(s) | (1) Takahiko MAKINO |
|---|--|---|--|
| | (2) | | (2) |
| | (3) | | (3) |
| | (4) | | (4) |
| | (5) | | (5) |
| | (6) | | (6) |
| | (7) | | (7) |
| | (8) | | (8) |
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| (9) 被譲渡人名 | 京セラ株式会社 | (9) Name(s) of Assignee(s) | (9) KYOCERA CORPORATION |
| (10、11)被譲渡人本店 所在地·住所 | 所 〒612-8501、日本国 Incorporation of Assignee(s) | | (10) (11) of 6, Takeda Tobadono-cho, Fushimi-ku, Kyoto-shi, Kyoto, Japan 612- 8501, and |
| | (上記を、以下被譲渡人) へ、下記署名者が米国に於いて特許出願 した | (11) Address(es) of Assignee(s) | (hereinafter designated as the Assignee(s)) the entire worldwide right, title and interest in the invention known as |
| (12)発明の名称、 件名番号、又は外国に於 | | (12) Identification of Invention, such as Title, Case | (12) CUTTING TOOL |
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|--|----------|--|---|--|
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| たは望ましい識別を促進するために本譲渡証に挿入する権限を顧客番号:03624 で表される者に与えます。 | | Customer Number: 03624 the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document. | | |
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| 署名 | 日付 | Signature | Date | |
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| 署名 | 日付 | Signature | Date | |
| The Party of the P | | lan contact A | | |
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| 署名 | 日付 | Signature | Date | |
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| On PO obliga | | L | | |
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| 署名 | 日付 | Signature | Date | |
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| 署名 | 日付 | Signature | Date | |
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| 発明者8 | | Inventor 8: | p | |
| 署名 | 日付 | Signature | Date | |

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