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| PATENT ASSIGNMENT COVER SHEET |
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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| KYUNGIL CHUNG | 08/06/2019 |
| FLORENT CUCHET | 08/12/2019 |
| PHILIP NILSSON | 08/06/2019 |
| RECEIVING PARTY DATA | |
| Name: | PHILIP MORRIS PRODUCTS S.A. |
| Street Address: | QUAI JEANRENAUD 3 |
| City: | NEUCHATEL |
| State/Country: | SWITZERLAND |
| Postal Code: | 2000 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 35504881 |
| CORRESPONDENCE DATA | |
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| ATTORNEY DOCKET NUMBER: | 522593US |
| NAME OF SUBMITTER: | VALERIE L. WATKINS |
| SIGNATURE: | /Valerie L. Watkins/ |
| DATE SIGNED: | 08/29/2019 |
| Total Attachments: 2 | |
| source=Executed-Assg-Document#page1.tif | |
| source=Executed-Assg-Document#page2.tif | |

Assignment

I/We, the below-named inventor(s) ("I/We," "Me/Us," or "ASSIGNOR"), have made an invention entitled: LIGHTERS FOR TOBACCO HEAT STICKS AND AEROSOL GENERATORS, for which I/We will file or have filed a patent application (U.S. Application No. 35/504,881, filed November 8, 2017).

PHILIP MORRIS PRODUCTS S.A., having an address of Quai Jeanrenaud 3, 2000 Neuchatel, Switzerland ("ASSIGNEE"), wishes to acquire the entire right, title, and interest in and to the invention, to the patent application (including any divisional, continuation, continuation-in-part, substitute, renewal, and reissue), and to any other application(s) for the invention and any patent(s) to be issued for the invention in the United States of America ("U.S.") and in any foreign country.

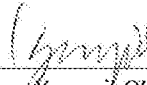
In consideration of the sum of \$5 (or equivalent denomination in foreign currency) and other good and valuable consideration that I/We have received from the ASSIGNEE, I/We have sold, assigned, and transferred, and do now sell, assign, and transfer, to the ASSIGNEE, the entire right, title, and interest in and to the invention (including the right to claim priority from the patent application under the terms of the Paris Convention, the Patent Cooperation Treaty, and any other convention or treaty to which the U.S. participates), to the patent application (including any divisional, continuation, continuation-in-part, substitute, renewal, and reissue), and to any other application(s) for the invention and any patent(s) to be issued for the invention in the U.S. and in any foreign country.

I/We authorize and request any official of the United States Patent and Trademark Office ("USPTO") and of any foreign patent office, to issue to the ASSIGNEE all patents for the invention and for the patent application in the U.S. and in any foreign country, as the assignee of the entire right, title, and interest in and to the same, for the sole use and benefit of the ASSIGNEE, for the full term for which the patent(s) extend, as if the same would have been held by Me/Us had this Assignment not been made.

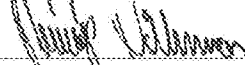
I/We have the full right to convey the right, title, and interest being assigned by this Assignment, and have not executed and will not execute any agreement that conflicts with this Assignment.

I/We will: (a) communicate to the ASSIGNEE, its successors and assigns, and its representatives, any facts known to Me/Us regarding the invention, the patent application (including any divisional, continuation, continuation-in-part, substitute, renewal, and reissue), and any other application(s) or any patent(s) to be issued for the invention in the U.S. and in any foreign country; (b) sign all documents, testify in any legal proceeding or patent office proceeding, and make any required oath or declaration, to aid in causing all right, title, and interest to all such patent(s) to be issued to the ASSIGNEE; and (c) generally do everything possible to aid the ASSIGNEE and its successors and assigns in obtaining and enforcing its entire right, title, and interest assigned by this Assignment in the U.S. and in any foreign country.

I/We authorize the ASSIGNEE or its representatives to insert on this Assignment any identification, including the application number and filing date, to comply with rules of the USPTO and any foreign patent office for recordation of this Assignment.

Date: 06/08/2019 Signature of ASSIGNOR: 
 Typed/Printed Name of ASSIGNOR: Kyungil CHUNG

Date: _____ Signature of ASSIGNOR: _____
 Typed/Printed Name of ASSIGNOR: Florent CUCHET

Date: 06/08/2019 Signature of ASSIGNOR: 
 Typed/Printed Name of ASSIGNOR: Philip WILSSON

Date: _____ Signature of ASSIGNOR: _____
 Typed/Printed Name of ASSIGNOR: _____

Date: _____ Signature of ASSIGNOR: _____
 Typed/Printed Name of ASSIGNOR: _____

Date: _____ Signature of ASSIGNOR: _____
 Typed/Printed Name of ASSIGNOR: _____

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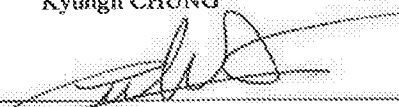
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| Date: _____ | Signature of ASSIGNOR: _____ Typed/Printed Name of ASSIGNOR: Kyungil CHUNG |
| Date: <u>12/08/2019</u> | Signature of ASSIGNOR:  Typed/Printed Name of ASSIGNOR: Florent CUCHET |
| Date: _____ | Signature of ASSIGNOR: _____ Typed/Printed Name of ASSIGNOR: Philip NILSSON |
| Date: _____ | Signature of ASSIGNOR: _____ Typed/Printed Name of ASSIGNOR: _____ |
| Date: _____ | Signature of ASSIGNOR: _____ Typed/Printed Name of ASSIGNOR: _____ |
| Date: _____ | Signature of ASSIGNOR: _____ Typed/Printed Name of ASSIGNOR: _____ |

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.
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PATENT