

PATENT ASSIGNMENT COVER SHEET

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| NATURE OF CONVEYANCE: | ASSIGNMENT | |
| CONVEYING PARTY DATA | | |
| | Name | Execution Date |
| | PHILIP MORRIS PRODUCTS S.A. | 08/30/2016 |
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| State/Country: | VIRGINIA | |
| Postal Code: | 23230 | |
| PROPERTY NUMBERS Total: 1 | | |
| | Property Type | Number |
| | Application Number: | 15264881 |
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| DATE SIGNED: | 06/07/2017 | |
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| source=2017_06_07_assignment_PMPSA#page3.tif | | |

ASSIGNMENT

Whereas Philip Morris Products S.A., Quai Jeanrenaud 3, 2000 Neuchâtel, Switzerland (Assignor), is the owner of the full and exclusive right, title and interest throughout the world, including the right to claim priority under all treaties and laws, to European Application No. 15185541.8, filed 16 September 2015 (Application) and the entire subject matter described therein (Inventions);

Whereas Altria Client Services LLC, 6601 West Broad Street, Richmond, Virginia 23230, USA (Assignee) is desirous of acquiring the entire right, title and interest in the United States of America to the Inventions, and the right to claim priority to the Application in all U.S. applications on the Inventions;

For good and valuable consideration, the receipt and adequacy whereof Assignor hereby acknowledges, Assignor hereby confirms any prior assignment to the Assignee and to the extent Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America to the Inventions, the right to claim priority to the Application in all U.S. applications on the Inventions, all U.S. applications on the Inventions, all divisionals, continuations, continuations-in-part, or other U.S. applications claiming priority directly or indirectly from U.S. applications on the Inventions, and any United States Letters

Patent or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights in the United States of America in the Inventions, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent or other similar rights are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the U.S. applications, U.S. patents or other similar rights, resulting therefrom, and the copyright rights in the U.S.

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any U.S. applications of any type for patent or other similar rights, and for copyright in the United States including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, any derivation proceedings relating thereto, and as to Letters Patent any supplemental examination, derivation proceeding, opposition, post grant review, reissue, re-examination, inter partes review, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor.

Assignor hereby covenants that Assignor has not made and will not make any assignment, sale, license, agreement or encumbrance which would conflict with this Assignment.

Assignor hereby requests the United States Patent and Trademark Office to issue any Letters Patent of the United States of America on the Inventions to Assignee.

Assignor hereby grants the law firm of Harness, Dickey & Pierce, P.L.C. 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 U.S. Patent and Trademark Office for recordation of this document.

Philip Morris Products S.A.

By: Elisabeth Murray
Title: Elisabeth Murray
Senior Counsel Patents
Philip Morris Products S.A.
Date: 30 August 2016

Mikkjal Gulkiott
Mikkjal Gulkiott
Patent Counsel
Philip Morris Products S.A.