502504741 09/23/2013

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

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

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------------|----------------|
| Brian Salmon | 08/29/2013 |
| Osny Gilmar Konrath | 09/06/2013 |

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: | 13984933 |

CORRESPONDENCE DATA

Fax Number: 6123051228

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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Address Line 2: Suite 350

Address Line 4: Minneapolis, MINNESOTA 55401

| ATTORNEY DOCKET NUMBER: | 451.00020101 | |
|-------------------------|-------------------|--|
| NAME OF SUBMITTER: | Brian C. Whipps | |
| Signature: | /Brian C. Whipps/ | |
| Date: | 09/23/2013 | |

Total Attachments: 2

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PATENT REEL: 031256 FRAME: 0069 CH \$40.00 1588

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ASSIGNMENT

Docket: 451.0002 0101

Whereas, we, Brian Salmon and Osny Gilmar Konrath, with citizenships as indicated below; have made an invention in

METHOD OF PROCESSING TOBACCO LEAVES

Filed: August 12, 2013

Application No.: 13/984,933

and executed an application for Letters Patent of the United States of America based thereon;

Now, therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we have individually and jointly agreed to assign and transfer and do hereby assign and transfer unto Philip Morris Products, S.A. ("Company, having its principal office at Quai Jeanrenaud 3, 2000 Neuchatel, Switzerland, its successors and assigns, the entire right, title, and interest in and to said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in said invention made by us or any of us or made jointly with others (provided any such improvement is made during, or within one year after the termination of, the employment by the Company of whichever of us, solely or jointly with one or more others, has made the same), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by us or any of us had this assignment and transfer not been made;

We do further agree for ourselves and for our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as we lawfully may, that may be deemed necessary by the Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries;

And we do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of said applications, to Philip Morris Products, S.A. as the assignee of the entire right, title, and interest therein.

In witness whereof, we have hereunto signed our names on the days and years set forth below

| ^ | of the days and years set forth below. |
|------------------|---|
| CO SO | gust, 2013. |
| Witness (Spouse) | Brian Salmon Citzenship: British |
| Witness | Osny Gilmar Konrath Citzenshin: Brazilian |

PATENT REEL: 031256 FRAME: 0070 ASSIGNMENT

Docket: 451.0002 0101

Whereas, we, Brian Salmon and Osny Gilmar Konrath, with citizenships as indicated below; have made an invention in

METHOD OF PROCESSING TOBACCO LEAVES

Filed: August 12, 2013

Application No.: 13/984,933

and executed an application for Letters Patent of the United States of America based thereon;

Now, therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we have individually and jointly agreed to assign and transfer and do hereby assign and transfer unto Philip Morris Products, S.A. ("Company, having its principal office at Quai Jeanrenaud 3, 2000 Neuchatel, Switzerland, its successors and assigns, the entire right, title, and interest in and to said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in said invention made by us or any of us or made jointly with others (provided any such improvement is made during, or within one year after the termination of, the employment by the Company of whichever of us, solely or jointly with one or more others, has made the same), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by us or any of us had this assignment and transfer not been made;

We do further agree for ourselves and for our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as we lawfully may, that may be deemed necessary by the Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries;

And we do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of said applications, to Philip Morris Products, S.A. as the assignee of the entire right, title, and interest therein.

In witness whereof, we have hereunto signed our names on the days and years set forth below.

Dated this 06 day of SERTEMBER 2013.

Witness

Brian Salmon

Citzenship: British

Witness

RAMICAN MOHD RAZALI

Osny Gilmar Konrath

Citzenship: Brazilian

PATENT REEL: 031256 FRAME: 0071

RECORDED: 09/23/2013