

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2829890

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| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                                 |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                                     |
| <b>CONVEYING PARTY DATA</b>   |  |
| <b>Name</b>   | <b>Execution Date</b>                          |
| NANAE SHIMANAKA   | 04/08/2014                                     |
| SALVATORE PAGANO  | 04/08/2014                                     |
| NICOLAS DAUTREY   | 04/08/2014                                     |
| <b>RECEIVING PARTY DATA</b>   |  |
| <b>Name:</b>  | COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN |
| <b>Street Address:</b>  | 12 COURS SABLON                                |
| <b>City:</b>  | CLERMONT-FERRAND                               |
| <b>State/Country:</b>   | FRANCE   |
| <b>Postal Code:</b>   | F-63000  |
| <b>Name:</b>  | MICHELIN RECHERCHE ET TECHNIQUE S.A.           |
| <b>Street Address:</b>  | ROUTE LOUIS BRAILLE 10                         |
| <b>City:</b>  | GRANGES-PACCOT                                 |
| <b>State/Country:</b>   | SWITZERLAND                                    |
| <b>Postal Code:</b>   | CH-1763  |
| <b>PROPERTY NUMBERS Total: 1</b>  |  |
| <b>Property Type</b>  | <b>Number</b>                                  |
| Application Number:   | 14130311                                       |
| <b>CORRESPONDENCE DATA</b>  |  |
| <b>Fax Number:</b>  | (202)659-1559                                  |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i> |  |
| <b>Phone:</b>   | 202-457-0160                                   |
| <b>Email:</b>   | dcpatents@dickinsonwright.com                  |
| <b>Correspondent Name:</b>  | DICKINSON WRIGHT PLLC                          |
| <b>Address Line 1:</b>  | 1875 EYE STREET, NW                            |
| <b>Address Line 2:</b>  | SUITE 1200                                     |
| <b>Address Line 4:</b>  | WASHINGTON, DISTRICT OF COLUMBIA 20006         |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 338180-01021                                   |
| <b>NAME OF SUBMITTER:</b>   | BRUCE D. GRAY                                  |
| <b>SIGNATURE:</b>   | /Bruce D. Gray/                                |

PATENT

|                     |            |
|---------------------|------------|
| <b>DATE SIGNED:</b> | 04/25/2014 |
|---------------------|------------|

**Total Attachments: 4**

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## ASSIGNMENT (JOINT)

THIS ASSIGNMENT, by (1) Nanae SHIMANAKA, (2) Salvatore PAGANO, and (3) Nicolas DAUTREY, residing at (1) 43-4, Sujakusyokai-cho, Shimogyo-ku, Kyoto-shi, Kyoto, 600-8841, JAPAN, (2) Manufacture Francaise des Pneumatiques Michelin, DGD/PI - F35/Ladoux, F-63040, Clermont-Ferrand - Cedex 9, FRANCE, and (3) Nihon Michelin Tire Co., Ltd., 13F Shinjuku-ku Park Tower, 3-7-1, Nishi-Shinjuku, Shinjuku-ku, Tokyo, 163-1073, JAPAN, (hereinafter referred to as "the Assignors"), respectively witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in PNEUMATIC TIRE TREAD set forth in an application for Letters Patent of the United States, which is a

- (1.)  Provisional application
    - (a)  bearing Application No. \_\_\_\_\_, and filed on \_\_\_\_\_;
    - (b)  to be filed herewith; or
  
  - (2.)  Non-provisional application
    - (a)  bearing Application No. 14/130,311, and filed on 30 December 2013;
    - (b)  having an oath or declaration executed on even date herewith prior to filing of application
    - (c)  having an oath or declaration executed on a different date than this Assignment;
- and

WHEREAS, COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, a corporation duly organized under and pursuant to the laws of France, and having a principal piece of business at 12 cours Sablon, F-63000 Clermont-Ferrand, FRANCE, and MICHELIN RECHERCHE ET TECHNIQUE S.A., a corporation duly organized under and pursuant to the laws of Switzerland, and having a principal place of business at Route Louis Braille 10, CH-1763, Granges-Paccot, SWITZERLAND, respectively (hereinafter referred to as "the Assignee(s)"), are desirous of acquiring the entire right, title, and interest in and to said Inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon, as well as any rights to sue for past infringement,

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee(s), their successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the

Protection of Industrial Property, the same to be held and enjoyed by the Assignee(s), for its own use and behoof and the use and behoof of their successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee(s), their successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee(s), their successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee(s), or the counsel of their successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference, ex parte reexamination, post grant opposition (if applicable), and inter partes review proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee(s), their successors, legal representatives, and assigns, but at the cost and expense of the Assignee(s), their successors, legal representatives, and assigns;

AND the Assignors hereby authorize and request the attorneys of Dickinson Wright PLLC to insert in the spaces provided above the title of the invention, filing date, application number, and attorney's docket number of said application when known.

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee(s) as the Assignee(s) of said invention, the Letters Patent to be issued for the sole use and behoof of the Assignee(s), their successors, legal representatives, and assigns.

DATE: April 8, 2014

Nanae Shimanaka  
Nanae SHIMANAKA

DATE: \_\_\_\_\_

\_\_\_\_\_  
Salvatore PAGANO

DATE: April 8, 2014

Nicolas Dautrey  
Nicolas DAUTREY

## ASSIGNMENT (JOINT)

THIS ASSIGNMENT, by (1) Nanae SHIMANAKA, (2) Salvatore PAGANO, and (3) Nicolas DAUTREY, residing at (1) 43-4, Sujakusyokai-cho, Shimogyo-ku, Kyoto-shi, Kyoto, 600-8841, JAPAN, (2) Manufacture Francaise des Pneumatiques Michelin, DGD/PI - F35/Ladoux, F-63040, Clermont-Ferrand - Cedex 9, FRANCE, and (3) Nihon Michelin Tire Co., Ltd., 13F Shinjuku-ku Park Tower, 3-7-1, Nishi-Shinjuku, Shinjuku-ku, Tokyo, 163-1073, JAPAN, (hereinafter referred to as "the Assignors"), respectively witnesseth:

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- (1.)  Provisional application
    - (a)  bearing Application No. \_\_\_\_\_, and filed on \_\_\_\_\_;
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  - (2.)  Non-provisional application
    - (a)  bearing Application No. 14/130,311, and filed on 30 December 2013;
    - (b)  having an oath or declaration executed on even date herewith prior to filing of application
    - (c)  having an oath or declaration executed on a different date than this Assignment;
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WHEREAS, COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, a corporation duly organized under and pursuant to the laws of France, and having a principal piece of business at 12 cours Sablon, F-63000 Clermont-Ferrand, FRANCE, and MICHELIN RECHERCHE ET TECHNIQUE S.A., a corporation duly organized under and pursuant to the laws of Switzerland, and having a principal place of business at Route Louis Braille 10, CH-1763, Granges-Paccot, SWITZERLAND, respectively (hereinafter referred to as "the Assignee(s)"), are desirous of acquiring the entire right, title, and interest in and to said Inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon, as well as any rights to sue for past infringement,

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee(s), their successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the

Protection of Industrial Property, the same to be held and enjoyed by the Assignee(s), for its own use and behoof and the use and behoof of their successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee(s), their successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee(s), their successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee(s), or the counsel of their successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference, ex parte reexamination, post grant opposition (if applicable), and inter partes review proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee(s), their successors, legal representatives, and assigns, but at the cost and expense of the Assignee(s), their successors, legal representatives, and assigns;

AND the Assignors hereby authorize and request the attorneys of Dickinson Wright PLLC to insert in the spaces provided above the title of the invention, filing date, application number, and attorney's docket number of said application when known.

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee(s) as the Assignee(s) of said invention, the Letters Patent to be issued for the sole use and behoof of the Assignee(s), their successors, legal representatives, and assigns.

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\_\_\_\_\_  
Nanae SHIMANAKA

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Salvatore PAGANO

\_\_\_\_\_  
Nicolas DAUTREY