PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

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

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------|----------------|
| Thierry CHARTIER | 10/14/2011 |
| Helene EMORINE | 10/14/2011 |
| Patrick BERVAS | 10/14/2011 |

RECEIVING PARTY DATA

| Name: | SOCIETE DE TECHNOLOGIE MICHELIN | |
|-----------------|---------------------------------|--|
| Street Address: | 23 rue Breschet | |
| City: | 63000 Clermont-Ferrand | |
| State/Country: | FRANCE | |

| Name: | MICHELIN RECHERCHE ET TECHNIQUE S.A. | |
|-----------------|--------------------------------------|--|
| Street Address: | Route Louis Braille 10 | |
| City: | 1763 Granges-Paccot | |
| State/Country: | SWITZERLAND | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 29400887 |

CORRESPONDENCE DATA

Fax Number: (703)836-7419 Phone: 7038366620

Email: lisa.martin@bipc.com, adipdoc1@bipc.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: Buchanan Ingersoll & Rooney, PC

1737 King Street Address Line 1:

Address Line 2: Suite 500

Address Line 4: Alexandria, VIRGINIA 22314

REEL: 027081 FRAME: 0858

PATENT

| ATTORNEY DOCKET NUMBER: | 1033818-000485 |
|--|----------------|
| NAME OF SUBMITTER: | Lisa M. Martin |
| Total Attachments: 4 source=1033818-000485-Assignment#page1.tif source=1033818-000485-Assignment#page2.tif source=1033818-000485-Assignment#page3.tif source=1033818-000485-Assignment#page4.tif | |

PATENT REEL: 027081 FRAME: 0859

ASSIGNMENT

(JOINT)

THIS ASSIGNMENT, by (1) Thierry CHARTIER. (2) Hélène EMORINE. and (3) Patrick BERVAS, residing at (1) St Beauzire, France: (2) Chateaugay, France; and (3) Clermont-Ferrand, France: (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in PORTION OF A PNEUMATIC TIRE 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. 29/400,887, and filed on September 2, 2011; (b) having an oath or declaration executed on even date herewith prior to filing of application: (c) \square having an oath or declaration executed on a different date than this Assignment; and

WHEREAS, (1) **SOCIETE DE TECHNOLOGIE MICHELIN**, a corporation duly organized under and pursuant to the laws of <u>France</u> and having a principal place of business at <u>23 rue Breschet</u>. <u>63000 Clermont-Ferrand</u>. <u>France</u>; and (2) **MICHELIN RECHERCHE ET TECHNIQUE S.A.**, a corporation duly organized under and pursuant to the laws of <u>Switzerland</u> and having a principal place of business at <u>Route Louis Braille 10</u>. <u>1763 Granges-Paccot</u>. <u>Switzerland</u> (hereinafter referred to as "the Assignees"), 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 therefore and thereon including the right to sue for past infringement, including rights under 35 U.S.C. § 154(d).

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, its 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, for its own use and behoof and the use and behoof of its 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, its 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:

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PATENT REEL: 027081 FRAME: 0860

Application No. <u>29/400.887</u> Attorney Docket No. <u>1033818-000485</u> Page 2 of 2

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its 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 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, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby authorize and request the attorneys of Buchanan Ingersoli & Rooney PC 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 as the Assignee of said invention, the Letters Patent to be issued for the sole use and behoof of the Assignee, its successors, legal representatives, and assigns.

| DATE_ | October 14, 20M | 3 |
|-------|--|------------------|
| | • | THIERRY CHARTIER |
| DATE_ | October 14, 2011 | Essale. |
| | | HÉLÈNE EMORINE |
| DATE_ | and the state of t | |
| · | | PATRICK BERVAS |

REEL: 027081 FRAME: 0861

ASSIGNMENT

(JOINT)

THIS ASSIGNMENT, by (1) Thierry CHARTIER, (2) Hélène EMORINE, and (3) Patrick BERVAS, residing at (1) St Beauzire, France; (2) Chateaugay, France; and (3) Clermont-Ferrand, France; (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in PORTION OF A PNEUMATIC TIRE set forth in an application for Letters Patent of the United States, which is a (1) provisional application bearing Application No. _____, and filed on _____; (a) 🔲 (b) 🔲 to be filed herewith; or (2) \boxtimes non-provisional application (a) \boxtimes bearing Application No. 29/400,887, and filed on September 2, 2011; (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, (1) **SOCIETE DE TECHNOLOGIE MICHELIN**, a corporation duly organized under and pursuant to the laws of <u>France</u> and having a principal place of business at <u>23 rue Breschet</u>, <u>63000 Clermont-Ferrand</u>, <u>France</u>; and (2) **MICHELIN RECHERCHE ET TECHNIQUE S.A.**, a corporation duly organized under and pursuant to the laws of <u>Switzerland</u> and having a principal place of business at <u>Route Louis Braille 10</u>, <u>1763 Granges-Paccot</u>, <u>Switzerland</u> (hereinafter referred to as "the Assignees"), 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 therefore and thereon including the right to sue for past infringement, including rights under 35 U.S.C. § 154(d).

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, its 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, for its own use and behoof and the use and behoof of its 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, its 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:

Buchanan Ingersoll & Rooney PC
Attorneys & Government Relations Professionals

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AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its 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 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, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby authorize and request the attorneys of Buchanan Ingersoll & Rooney PC 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 as the Assignee of said invention, the Letters Patent to be issued for the sole use and behoof of the Assignee, its successors, legal representatives, and assigns.

| DATE | |
|-------------------------|-----------------------------|
| | THIERRY CHARTIER |
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| DATE | |
| DATE | H ÉLÈNE EMORIN E |
| | 1 BONUMA |
| DATE October 14, 20M | Journas . |
| DAIL BOILD ! (, COO) !! | PATRICK BERVAS |

Buchanan Ingersoll & Rooney PC
Attorneys & Government Relations Professionals

RECORDED: 10/18/2011