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PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | | NEW ASSIGNMENT | NEW ASSIGNMENT | |
|-------------------------|---------------------------------------|--------------------------------------|-----------------|-----------------|
| NATURE OF CONVEYANCE: | | ASSIGNMENT | ASSIGNMENT | |
| CONVEYING PARTY DA | TA | | | |
| | | Name | | Execution Date |
| CARL HEILMAN | | | 1 | 06/01/2009 |
| ADEL M. MALEK | | | | 01/21/2011 |
| RECEIVING PARTY DA | ГА | | | |
| Name: | TUFTS MEDICAL CENTER, INC. | | | |
| Street Address: | 800 WASHINGTON STREET | | | |
| City: | BOSTON | | | |
| State/Country: | MASSACHUSETTS | | | |
| Postal Code: | 02111 | | | |
| PROPERTY NUMBERS | Totoli 1 | | | |
| Property Type | | Number | | |
| Application Number: | 1 | 5294000 | | |
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| CORRESPONDENCE DA | | 617)500-2499 | | |
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| ATTORNEY DOCKET NUMBER: | | 70010-039005 | | |
| | | | | |
| NAME OF SUBMITTER: | | GRACI SMITH | | |

| SIGNATURE: | /Graci Smith/ | |
|-----------------------------|---------------|--|
| DATE SIGNED: | 10/14/2016 | |
| Total Attachments: 4 | | |
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Attorney Docket No. 701748-061481

ASSIGNMENT

Serial No. <u>12/362,152</u>

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Filed January 29, 2009

WHEREAS, <u>Carl HEILMAN</u> (hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in <u>ENDOVASCULAR CEREBROSPINAL</u> <u>FLUID SHUNT</u> for which an application for Letters Patent of the United States of America has been executed by the undersigned and;

WHEREAS, <u>Tufts Medical Center</u> of <u>800 Washington Street</u>, <u>Boston</u>, <u>MA 02111</u> its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents do sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America and its territories and for all foreign countries, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America and its territories, dependencies and possessions, and in and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or any continuation, division or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims under or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States of America resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they 12410131.1

> PATENT REEL: 040020 FRAME: 0971

have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of NIXON PEABODY LLP 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.

In witness thereof, this Assignment has been executed by the undersigned on the date(s) opposite the undersigned name(s). ρ

| Date <u>6 /1/09</u> | Signature 0 5 1 2 |
|---------------------|--------------------------|
| | Name <u>Carl HEILMAN</u> |
| Date | Signature |
| | Name |
| Date | Signature |
| | Name |
| Date | Signature |
| | Name |
| Date | Signature |
| | Name |

This assignment should preferably be acknowledged before a United States Consul or Notary Public. If not, then the execution by the Inventor(s) should be witnessed by at least two other persons who should sign here.

| Witness | Signature |
|---------|-----------|
| Witness | Signature |
| Witness | Signature |

Commonwealth of Massachusetts, County of Suffolk

On this $\underline{/57}$ day of $\underline{/100}$, 2009, before me, the undersigned notary public, personally appeared CordlHeilman, proved to me through satisfactory evidence of identification, which were $\underline{/60}$, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose.

| 8 | THOMAS J. MCVARISH |
|-----------|--|
| | NOTADV DUDUIC |
| NAR /A CO | MMONWEALTH OF MASSACHUSETTS commission expires on October 4, 2013 |
| My My d | commission expires on October 4, 2013 |

PATENT REEL: 040020 FRAME: 0972 NIXON PEABODY LLP 100 Summer Street Boston, Massachusetts 02110-2131

Attorney's Docket No. 701748-061481-US U.S. Serial No. 12/362,152

ASSIGNMENT

WHEREAS, I, Adel M. Malek, a United States citizen, residing at 82 Hancock Street, Lexington, MA 02420; have invented certain new and useful improvements in ENDOVASCULAR CEREBROSPINAL FLUID SHUNT, for which I have executed an application for Letters Patent in the United States, filed as United States Serial No. 12/362,152 filed on January 29, 2009, and naming myself as inventor;

AND WHEREAS, TUFTS MEDICAL CENTER, a Massachusetts corporation, with its principal place of business at 800 Washington Street, Boston, MA 02111, desires to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, I, the said inventor, do hereby acknowledge that I have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said TUFTS MEDICAL CENTER, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and I hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue Patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said TUFTS MEDICAL CENTER, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant and agree that I will communicate to the said **TUFTS MEDICAL CENTER**, its successors, legal representatives and assigns, any facts known to me respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said **TUFTS MEDICAL CENTER**, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

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PATENT REEL: 040020 FRAME: 0973

NIXON PEABODY LLP 100 Summer Street Boston, Massachusetts 02110-2131

Attorney's Docket No. 701748-061481-US U.S. Serial No. 12/362,152

The undersigned hereby grant(s) the law firm of Nixon Peabody LLP of 100 Summer Street, Boston, Massachusetts 02110-2131, U.S.A. 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.

IN TESTIMONY WHEREOF, I, Adel M. Malek, hereunto set my signature this $\frac{21}{\text{January}}$, 2011.

Adel M. Malek

STATE OF Massachusetts COUNTY OF SUFFAIK SS: 468-06-9118

This <u>21</u> day of <u>January</u>, 2011, before me personally came the above-named Adel M. Malek, to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.

Vellian Copell



JILLIAN COPELL Notary Public Commonwealth of Massachusetts My Commission Expires June 30, 2017

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RECORDED: 10/14/2016