Electronic Version v1.1 Stylesheet Version v1.1

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

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------------|----------------|
| Jon D. Klingensmith | 04/26/2006 |
| Anuja Nair | 04/12/2006 |
| Barry D. Kuban | 04/12/2006 |
| D. Geoffrey Vince | 04/12/2006 |

RECEIVING PARTY DATA

| Name: | THE CLEVELAND CLINIC FOUNDATION | |
|-----------------|---------------------------------|--|
| Street Address: | 9500 Euclid Avenue | |
| City: | Cleveland | |
| State/Country: | ОНЮ | |
| Postal Code: | 44195 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 11449569 |

CORRESPONDENCE DATA

Fax Number: (949)823-6994

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

Phone: 949 760-9600

Email: jkappos@omm.com

Correspondent Name: John Kappos

Address Line 1: 610 Newport Center Drive, 17th Floor Address Line 4: Newport Beach, CALIFORNIA 92660

| ATTORNEY DOCKET NUMBER: | 895,675-241 |
|-------------------------|-------------|
|-------------------------|-------------|

NAME OF SUBMITTER: John Kappos

Total Attachments: 5

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PATENT REEL: 019565 FRAME: 0721 \$40.00

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ASSIGNMENT OF PATENT APPLICATION

WHEREAS, WE, JON D. KLINGENSMITH, a citizen of the United States, ANUJA NAIR, a citizen of India, and D. GEOFFREY VINCE, a citizen of the United States, all having a place of business at Volcano Corporation, 2870 Kilgore Road, Rancho Cordova, California 95670, and BARRY D. KUBAN, a citizen of the United States, having a place of business at The Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, Ohio 44195 (hereinafter referred to as "ASSIGNORS"), have invented SYSTEM AND METHOD FOR VASCULAR BORDER DETECTION, for which application for Letters Patent of the United States of America has been executed on April 29, 2004 and assigned U.S. Application Serial No. 10,837,352; and

WHEREAS, THE CLEVELAND CLINIC FOUNDATION, a non-profit institution organized and existing under and by virtue of the laws of the State of Ohio and having its principal place of business at 9500 Euclid Avenue, Cleveland, Ohio 44195 (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the exclusive right, title and interest in, to and under said invention and in, to and under any Patent or similar legal protection to be obtained therefor in the United States of America, its territorial possessions and in any and all countries foreign thereto.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign, transfer and set over unto the said ASSIGNEE, its successors and assigns, the full and exclusive right, title and interest to said invention and to all Letters Patent or application or similar legal protection, not only in the United States and its territorial possessions, but in all countries foreign thereto, to be obtained for said invention by said application, and to any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in the United States or a foreign country for the full term or terms for which the

IR1:1054511.2

Patent Attorney Docket 895,675-198

ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent or any legal equivalent thereof to said ASSIGNEE, its successors and assigns, in accordance with this Assignment.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Agreement;

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention, and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents in the United States or in any foreign country, which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, the ASSIGNORS have executed this Assignment at:

| , Ohio | Jon D. Klingensmith | 7/26/06 Date |
|--------|---------------------|-----------------|
| , Ohio | Anuja Nair | - Date |

2 of 3

IR1:1054511.2

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT State of California County of Sacramento On April 26, 2006 before me, MARY P. MA personally appeared personally known to me ☐ (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized MARY P. MADUELL capacity(ies), and that by his/her/their signature(s) on the Commission # 1516246 instrument the person(s), or the entity upon behalf of Notary Public - California Sacramento County which the person(s) acted, executed the instrument. ly Comm. Expires Sep 28, 2008 WITNESS my hand and official seal. Place Notary Seal Above **OPTIONAL** Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document. **Description of Attached Document** Title or Type of Document: Document Date: ____ Number of Pages: Signer(s) Other Than Named Above: Capacity(ies) Claimed by Signer(s) Signer's Name: Jon D. KlingenSMIH Signer's Name: Individual ☐ Individual □ Corporate Officer — Title(s): □ Corporate Officer — Title(s): __ ☐ Partner — ☐ Limited ☐ General ☐ Partner — ☐ Limited ☐ General ☐ Attorney in Fact OF SIGNER ☐ Attorney in Fact Top of thumb here Top of thumb here □ Trustee ☐ Trustee ☐ Guardian or Conservator ☐ Guardian or Conservator ☐ Other: ☐ Other:

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Signer Is Representing:

Item No. 5907

Signer Is Representing:

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same may be granted, including all priority rights under the International Convention; and ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent or any legal equivalent thereof to said ASSIGNEE, its successors and assigns, in accordance with this Assignment.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Agreement;

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention, and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents in the United States or in any foreign country, which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, the ASSIGNORS have executed this Assignment at:

| (City/State) | Jon D. Klingensmith | Date |
|-------------------------|---------------------------------|--------------------|
| CLEVELAND, (City/State) | | /~ 12th Apr 06 |
| | Anuja Nair me this 12th day or | Date f Aor 1 2006 |
| 7 | in Bankosky Notary | |

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ANNEMARIE BANKOSKY Notary Public, State of Ohio My Commission Expires Jan. 9, 2011 Recorded in Lake County

2 of 3

Cleveland 04

Barry D. Kliban

--Date

--Date

Clevelore, OH- Defertive Vince Date

The above named barry D. kuban and D. Geoffrey Vince, Known to me, appeared before me this 12th day of April, 2006, and acknowledged that the foregoing instrument was executed as their free the foregoing instrument was executed as their free therein act and ded for the uses and purposes therein Set for the

annemarie Benkosky Notary Public

ANNEMARIE BANKOSKY Notary Public, State of Ohio My Commission Expires Jan. 9, 2011 Recorded In Lake County

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PATENT REEL: 019565 FRAME: 0727

RECORDED: 07/17/2007