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RECORDATION FORM COVER SHEET PATENTS ONLY	
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.	
1. Name of conveying party(les)	2. Name and address of receiving party(ies)
Cassandra A. Piippo Svendsen	Name: CARDIOVASCULAR SYSTEMS, INC.
Daniel J. Lee Rachel E. DeSmidt Jesse C. Darley	Internal Address:
Additional name(s) of conveying party(ies) attached?	
3. Nature of conveyance/Execution Date(s):	Street Address: 651 Campus Drive
Execution Date(s)7/22/10;7/29/10;7/29/10;7/29/10	
Assignment Merger	
Security Agreement Change of Name	City: <u>st. Paul</u>
Joint Research Agreement	State: Minnesota
Government Interest Assignment	Country to be to an Zin man
Executive Order 9424, Confirmatory License	Country: <u>United States</u> Zip: <u>55112</u>
Other	Additional name(s) & address(es) attached? Yes No
4. Application or patent number(s): This document is being filed together with a new application.	
A. Patent Application No.(s)	B. Patent No.(s)
12/817354 Additional numbers at	lached? Yes XNo
5. Name and address to whom correspondence	6. Total number of applications and patents
concerning document should be mailed:	involved: 1
Name: Jeffrey R. Stone	7. Total fee (37 CFR 1.21(h) & 3.41) \$40
Internal Address: ALTERA LAW GROUP, LLC	
	X Authorized to be charged to deposit account
Street Address: 1700 US Bank Plaza S	Enclosed
220 \$ 6 \$t	None required (government interest not affecting title)
City: <u>Minneapolis</u>	8. Payment Information
State: MN Zip: 55402	
Phone Number: 612-436-3151	Depent Account Number - recess
Fax Number:	Deposit Account Number 501038
Email Address:	Authorized User Name_ <u>STONE_Jeffrey R.</u>
9. Signature:	August 2, 2010
Signature	Date
Jeffrey R. Stone Name of Person Signing	Total number of pages including cover 5 sheet, attachments, and documents: 5

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Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

Aliona Ref. No.: 3330.173-US-01

## PATENT ASSIGNMENT TO CORPORATION WORLDWIDE

WHEREAS, Cassendra A. Pilppo Svendsen, a citizen of the United States, residing at 4589 Victor Path, Unit #4, Hugo, Minnesola 55038;

hereafter referred to as "THE UNDERSIGNED", has made an invention entitled ATHERECTOMY DEVICE, SYSTEM AND METHOD HAVING A BI-DIRECTIONAL DISTAL EXPANDABLE ABLATION ELEMENT;

AND, WHEREAS, Cardiovascular Systems, Inc., hereafter referred to as ASSIGNEE, a corporation organized under the laws of Minnesota and whose place of business and business address is 651 Campus Drive, St. Paul, Minnesota 55112, is destrous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE in consideration of the sum of One Dollar, the receipt whereof is acknowledged, and other good and valuable consideration, THE UNDERSIGNED hereby sells, assigns and transfers unto ASSIGNEE the full and exclusive right to the said invention in the United States and the entire right, title end interest in and to all divisionals, continuations, continuations in part, reissues, reexaminations or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extension of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said invention including an assignment of all rights under the provision of international conventions and all Letters Patent of foreign countries which may be granted therefrom; the UNDERSIGNED hereby authorizes the Commissioner of Patents to issue any and all United States Letters Patent for the aforesald invention to ASSIGNEE of the entire right, title and interest in and to the same, for the use of the ASSIGNEE, its successors and assigns.

THE UNDERSIGNED, hereby agrees that THE UNDERSIGNED, his/her executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEE, its successors and representatives all facts Known to THE UNDERSIGNED relating to said invention and the history thereof and will testily in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE, its successors or assigns the entire right, title and interest in and to the said invention, applications, Letters Patent, rights, titles and benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

THE UNDERSIGNED represents and agrees with said Assignee its successors and assignee's, that no assignment grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by THE UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by THE UNDERSIGNED.

IN TESTIMONY WHEREOF, THE UNDERSIGNED has hereunto set her hand on the date indicated below.

g-Svalon Cassandra A. Pilopo Svendse

No Legalization Required

PATENT REEL: 024777 FRAME: 0944

Allera Ref. No.: 3330.173-US-01

## PATENT ASSIGNMENT TO CORPORATION WORLDWIDE

WHEREAS, Daniel J. Lee, a citizen of the United States, residing at 522 South Main St., Monticello, Minnesote 53570;

hereafter referred to as "THE UNDERSIGNED", has made an invention entitled ATHERECTOMY DEVICE, SYSTEM AND METHOD HAVING A BI-DIRECTIONAL DISTAL EXPANDABLE ABLATION ELEMENT;

AND, WHEREAS, Cardiovascular Systems, Inc., hereafter referred to as ASSIGNEE, a corporation organized under the laws of Minnesota and whose place of business and business address is 651 Campus Drive, St. Paul, Minnesota 55112, is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE In consideration of the sum of One Dollar, the receipt whereof is acknowledged, and other good and valuable consideration. THE UNDERSIGNED hereby sells, assigns and transfers unto ASSIGNEE the full and exclusive right to the said Invention in the United States and the entire right, tille and interest in and to all divisionals, continuations. continuations in part, reissues, reexaminations or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extension of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said Invention including an assignment of all rights under the provision of international conventions and all Letters Patent of foreign countries which may be granted therefrom; the UNDERSIGNED hereby authorizes the Commissioner of Patents to issue any and all United States Letters Patent for the aforesald invention to ASSIGNEE of the entire right, title and interest in and to the same, for the use of the ASSIGNEE, its successors and assigns.

THE UNDERSIGNED, hereby agrees that THE UNDERSIGNED, his/her executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEE. Its successors and representatives all facts Known to THE UNDERSIGNED relating to said invention and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE, its successors or assigns the entire right, title and interest in and to the said invention, applications, Letters Palent, rights, titles and benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

THE UNDERSIGNED represents and agrees with said Assignee its successors and assignees, that no assignment grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by THE UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by THE UNDERSIGNED.

IN TESTIMONY WHEREOF, THE UNDERSIGNED has hereunto set her hand on the date indicated below.

Daplel J, Lee

29/2010

No Logalization Required

Altera Ref. No.: 3330,173-US-01

## PATENT ASSIGNMENT TO CORPORATION WORLDWIDE

WHEREAS, Rachel E. DeSmidt, a cilizen of the United States, residing at 611 S. Few St. #3, Madison, Wisconsin 53703;

hereafter referred to as "THE UNDERSIGNED", has made an invention enlitled ATHERECTOMY DEVICE, SYSTEM AND METHOD HAVING A BI-DIRECTIONAL DISTAL EXPANDABLE ABLATION ELEMENT;

AND, WHEREAS, Cardiovascular Systems, Inc., hereafter referred to as ASSIGNEE, a corporation organized under the laws of Minnesota and whose place of business and business address is 651 Campus Drive, St. Paul, Minnesota 55112, is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE in consideration of the sum of One Dollar, the receipt whereof is acknowledged, and other good and valuable consideration, THE UNDERSIGNED hereby sells, assigns and transfers unto ASSIGNEE the full and exclusive right to the said invention in the United States and the entire right, title and interest in and to all divisionals, continuations, continuations in part, releases, reexaminations or renewals thereof, all Letters Patent which may be granted therefrom, and all releases or extension of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said invention including an assignment of all rights under the provision of international conventions and all Letters Patent of foreign countries which may be granted therefrom; the UNDERSIGNED hareby authorizes the Commissioner of Patents to issue any and all United States Letters Patent for the aforesald invention to ASSIGNEE of the entire right, title and interest in and to the same, for the use of the ASSIGNEE, its successors and essigns.

THE UNDERSIGNED, hereby agrees that THE UNDERSIGNED, his/her executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEE. its successors and representatives all facts Known to THE UNDERSIGNED relating to said invention and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE. Its successors or assigns the entire right, title and interest in and to the said invention, applications, Letters Patent, rights, titles and benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

THE UNDERSIGNED represents and agrees with said Assignee its successors and assignees, that no assignment grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by THE UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by THE UNDERSIGNED.

IN TESTIMONY WHEREOF, THE UNDERSIGNED has hereunto set her hand on the date indicated below.

Rachel F DeSmidt

No Logalization Required

Allera Ref. No.: 3330.173-US-01

## PATENT ASSIGNMENT TO CORPORATION WORLDWIDE

WHEREAS, Jesse C. Darley, a citizen of the United States, residing at 110 Alden Drive, Madison, Wisconsin 53705;

hereafter referred to as "THE UNDERSIGNED", has made an invention entitled ATHERECTOMY DEVICE, SYSTEM AND METHOD HAVING A BI-DIRECTIONAL DISTAL EXPANDABLE ABLATION ELEMENT;

AND, WHEREAS, Cardiovascular Systems, Inc., hereafter referred to as ASSIGNEE, a corporation organized under the laws of Minnesota and whose place of business and business address is 651 Campus Drive, St. Paul, Minnesota 55112, is desirous of acquiring the entire right, title and Interest in the same;

NCW, THEREFORE in consideration of the sum of One Dollar, the receipt whereof is acknowledged, and other good and valuable consideration, THE UNDERSIGNED hereby sells, assigns and transfers unto ASSIGNEE the full and exclusive right to the said invention in the United States and the entire right, title and interest in and to all divisionals, continuations, continuations in part, relissues, reexaminations or renewals thereof, all Letters Patent which may be granted therefrom, and all relissues or extension of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said invention including an assignment of all rights under the provision of international conventions and all Letters Patent of foreign countries which may be granted therefrom; the UNDERSIGNED hereby authorizes the Commissioner of Patents to issue any and all United States Letters Patent for the aforesaid invention to ASSIGNEE of the entire right, title and interest in and to the same, for the use of the ASSIGNEE, its successors and assigns.

THE UNDERSIGNED, hereby agrees that THE UNDERSIGNED, his/her executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEE, its successors and representatives all facts Known to THE UNDERSIGNED relating to said invention and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE, its successors or assigns the entire right, title and interest in and to the said invention, applications, Letters Patent, rights, titles and benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

THE UNDERSIGNED represents and agrees with said Assignee its successors and assignees, that no assignment grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by THE UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by THE UNDERSIGNED.

IN TESTIMONY WHEREOF, THE UNDERSIGNED has hereunto set her hand on the date indicated below.

Darlev

7/29/2010

No Legalization Required

**RECORDED: 08/02/2010**