Form PTO-1595 (Rev. 03-09) OMB No. 0651-0027 (exp. 03/31/2009)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office
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.	
Matthew D. Cambronne Robert E. Kohler Stephen Datam	Name: Cardiovascular Systems, Inc.
Jesse C. Darley Additional name(s) of conveying party(ies) attached? Yes X No. 3. Nature of conveyance/Execution Date(s):	Street Address: 651 Campus Drive
Execution Date(s) July 22, 2009 Assignment Merger Security Agreement Change of Name	City: St. Paul
Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License	State: MN Zip: 55112
4. Application or patent number(s):	Additional name(s) & address(es) attached? Yes Note to document is being filed together with a new application. B. Patent No.(s)
12/466164	
Additional numbers attached? Tyes No	
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
Name: Jeffrey R Stone	7 Total foo (27 CED 1 21(b) & 3.41) \$40

700 US Bank Plaza S	. X Authorized to be charged to deposit account
treet Address: 220 5 6 5t	Enclosed None required (government interest not affecting title)
	8. Payment Information
ity: Minneapolis	
tate: MN Zip: 55402	-
Phone Number: 612-436-31.51	Deposit Account Number _501038
ax Number:_952-912-0574	Authorized User Name ALTERA LAW GROUP, LLC
mail Address:	-
. Signature:	
Jeffus R Stone	Total number of pages including cover sheet, attachments, and documents:

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

Name of Person Signing

PATENT REEL: 023007 FRAME: 0514

Internal Address: ALTERA LAW GROUP, LLC

Altera Ref. No.: 3330.163-US-01

PATENT ASSIGNMENT TO CORPORATION WORLDWIDE

WHEREAS, Matthew D. Cambronne, a citizen of the United States, residing at 5143 Long Lake Rd., Mounds View, Minnesota 55112;

hereafter referred to as "THE UNDERSIGNED", has made an invention entitled CUTTING AND CORING ATHERECTOMY DEVICE AND METHOD;

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, 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 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 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 sald 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.

Matthew D. Cambronne

7-22-09 Date

No Legalization Required

PATENT REEL: 023007 FRAME: 0515

Altera Ref. No.: 3330.163-US-01

PATENT ASSIGNMENT TO CORPORATION WORLDWIDE

WHEREAS, Robert E. Kohler, a citizen of the United States, residing at 9618 53rd Street North, Lake Elmo. Minnesota 55042;

hereafter referred to as "THE UNDERSIGNED", has made an invention entitled CUTTING AND CORING ATHERECTOMY DEVICE AND METHOD;

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, little 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, 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 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 sald 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.

Robert E. Kohler

Date

No Legalization Required

PATENT REEL: 023007 FRAME: 0516

Altera Ref, No.: 3330.163-US-01

PATENT ASSIGNMENT TO CORPORATION WORLDWIDE

WHEREAS, Stephen Latham, a citizen of the United States, residing at 1125 Carriage Drive. Sun Preirie. Wisconsin 63590:

hereafter referred to as "THE UNDERSIGNED", has made an invention entitled CUTTING AND CORING ATHERECTOMY DEVICE AND METHOD;

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; 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 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 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, little 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.

Stephen Latham

Date

No Legalization Required

PATENT REEL: 023007 FRAME: 0517

Altera Ref. No.: 3330,163-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 CUTTING AND CORING ATHERECTOMY DEVICE AND METHOD;

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, 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 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 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.

7/22/09

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

No Lagalization Required

PATENT REEL: 023007 FRAME: 0518

RECORDED: 07/24/2009