04-18-2001 4-6-01 101680582 FORM PTO-1619A U.S. Department of Commerce. Patent and Trademark Office OMB 0651-0027 PATENT RECORDATION FORM COVER SHEET PATENTS ONLY TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) Submission Type Conveyance Type New **Assignment** X Security Agreement Resubmission (Non-Recordation) License Change of Name Document ID# Correction of PTO Error Merger Other Frame # U.S. Government (For Use ONLY by U.S. Government Agencies) **Corrective Document** Reel# Frame # Departmental File Secret File Mark if additional names of conveying parties attached Execution Date

| Month | Day | Year | Conveying Party(ies) Name (line 1) Microwave Medical Systems, Inc. 30 03 01 Name (line 2) Execution Date Month Day Year Second Party Name (line 1) Name (line 2) Receiving Party Mark if additional names of receiving parties attached Name (line 1) Kenneth L. Carr If document to be recorded is an assignment and the receiving party is not Name (line 2) domiciled in the United States, an appointment of a domestic Address (line 1) representative is attached. c/o Microwave Medical Systems, Inc. (Designation must be a separate document from Address (line 2) 310-312 School Street Assignment.) Address (line 3) 01720-5414 Massachusetts **Domestic Representative Name and Address** Enter for the first Receiving Party only. Name Address (line 1) Address (line 2) Address (line 3) Address (line 4) FOR OFFICE USE ONLY 4/18/2001 6-)0000014 09.68179 1080.00 OP 11:581

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Page 2

U.S. Department of Commerce Patent and Trademark Office PATENT

Correspondent Name and Address Area Code and Telephone Number 617–951–2053							
Name Frank S. Hamblett, Esq.							
Address (line 1) Peabody & Arnold LLP							
Address (line 2) 50 Rowes Wharf							
Address (line 3) Boston, MA 02110							
Address (line 4)							
Pages Enter the total number of pages of the attached conveyance document including any attachments. # 4							
Application Number(s) Mark if additional numbers attached							
Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).							
Patent Application Number(s) Patent Number(s) 09/368-179 08/980-536 4,346,716 4,557,272 4,583,556							
09/368,179 08/980,536 4,557,272 4,583,556							
4,614,514 4,647,281 4,715,727							
4,774,961 4,815,479 5,073,167							
If this document is being filed together with a new Patent Application, enter the date the patent application was Month Day Year signed by the first named executing inventor.							
Patent Cooperation Treaty (PCT)							
Enter PCT application number PCT PCT PCT PCT							
only if a U.S. Application Number PCT PCT PCT							
has not been assigned.							
Number of Properties Enter the total number of properties involved. # 27							
Fee Amount for Properties Listed (37 CFR 3.41): \$ 1,080.00							
Method of Payment: Enclosed Deposit Account							
Deposit Account (Enter for payment by deposit account or if additional fees can be charged to the account.)							
Deposit Account Number: #							
Authorization to charge additional fees: Yes No							
Statement and Signature							
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.							
Frank S. Hamblett AMM March 30, 2001							
Name of Person Signing Signature Date							

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Conveying Pa	rty(ies)	Mark if add	litional names of conveying p	parties attached	
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Name (line 1)					
Name (line 2)					Execution Date Month Day Year
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Enter additional R	eceiving Party(ies) 🕠	<i>,</i> <u>r</u>			
Name (line 1)					If document to be recorded is an assignment and the
Name (line 2)					receiving party is not domiciled in the United States, an appointment
Address (line 1)					of a domestic representative is attached. (Designation must be a separate
Address (line 2)					document from Assignment.)
Address (line 3)	City		State/Country	Zip Co	ode
Name (line 1)					If document to be recorded is an assignment and the
Name (line 2)					receiving party is not domiciled in the United States, an appointment of a
Address (line 1)					domestic representative is attached. (Designation must be a separate document from
Address (line 2)					Assignment.)
Address (line 3)	City		State/Country	Zip	Code
Application N	lumber(s) or Patent	Number(s)	Mark if additional n	umbers attached	l
			per (DO NOT ENTER BOTH)	numbers for the :	same property).
Pa	tent Application Numb	oer(s)		Patent Num	
			5,198,776	5,334,1	5,364,336
			5,531,662	5,616,2	5,662,110
			5,683,381	5,683,3	5,690,614
			5,919,218	5,782,8	5,827,238
			6,013,061	6,146,3	5,779,635

PATENT

REEL: 011675 FRAME: 0613

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U.S. Department of Commerce Patent and Trademark Office PATENT

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Name (line 1)					If document to be recorded is an assignment and the
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Address (line 3)	City		State/Country	Zip Coo	de
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Address (line 1)					domestic representative is attached. (Designation must be a separate document from
Address (line 2)					Assignment.)
Address (line 3)	City		State/Country		Code
Application N	umber(s) or Patent N	lumber(s)	Mark if additional nu		
• •	Patent Application Number or		DO NOT ENTER BOTH I	umbers for the s	ame property).
Pa	tent Application Number	(s)		Patent Numi	ber(s)
			5,983,124		
1					1

SECURITY AGREEMENT (PATENTS)

by and between

MICROWAVE MEDICAL SYSTEMS, INC. (the "Borrower")

and

KENNETH L. CARR (the "Lender")

List of U.S. Registered Patents (and Applications therefor)

Schedule 1

The following patents issued by, and the following patents applications pending with, the United States Patent and Trademark Office, are owned by the Borrower:

Item No.	<u>Title</u>	Serial No.	Patent No.	Date of Filing	Date of <u>Issuance</u>
1.	Microwave Detection System	N/A	4,346,716	N/A	08/31/82
2.	Microwave Endoscope Detection and Treatment System	N/A	4,557,272	N/A	12/10/85
3.	Microwave Applicator/ Receiver Apparatus	N/A	4,583,556	N/A	04/22/86
4.	Microwave Sterilizer	N/A	4,614,514	N/A	09/30/86
5.	Infiltration Detection Apparatus	N/A	4,647,281	N/A	03/03/87
6.	Non-Invasive Temperature Monitor	N/A	4,715,727	N/A	12/29/87
7.	Multiple Antennae Breast Screening System	N/A	4,774,961	N/A	10/04/88
8,	Hyperthermia Treatment Method and Apparatus	N/A	4,815,479	N/A	03/28/89
9.	In-Line Microwave Warming Apparatus	N/A	5,073,167	N/A	12/17/91
10.	Microwave System for Detecting Gaseous Emboli	N/A	5,198,776	N/A	03/31/93
11.	Extravasation Detection System and Apparatus	N/A	5,334,141	N/A	08/02/94
12.	Therapeutic Probe for Radiating Microwave and Ionizing Radiation	N/A	5,364,336	N/A	11/15/94

Item	<u>Date of</u> Date of					
No.	<u>Title</u>	Serial No.	Patent No.	Filing	<u>Issuance</u>	
		PRESERVATE CONTRACTOR				
13.	Dual Mode	N/A	5,531,662	N/A	07/02/96	
	Microwave/Ionizing					
	Probe	3.47.1	7.616.060	NT/A	0.4/0.1/07	
14.	Microwave Blood	N/A	5,616,268	N/A	04/01/97	
	Thawing with Feedback Control					
15.	Microwave Detection	N/A	5,662,110	N/A	09/02/97	
15.	Apparatus for Locating	N/A	3,002,110	IN/A	09/02/97	
	Cancerous Tumors					
	Particularly Breast					
	Tumors					
16.	In-Line Microwave	N/A	5,683,381	N/A	11/04/97	
	Warming Apparatus		· ' '			
17.	Microwave Antenna	N/A	5,683,382	N/A	11/04/97	
	Catheter		,			
18.	Microwave Apparatus for	N/A	5,690,614	N/A	11/25/97	
	Warming Low Flow Rate					
•	Infusates					
19.	Cartridge for Microwave	N/A	5,919,218	N/A	07/06/99	
	Fluid Warmer				0.510.000	
20.	Rapid Tissue Fixation	N/A	5,782,817	N/A	07/28/98	
	Device Using Microwave			!		
	Heating	NT/A	5 927 229	N/A	10/27/98	
21.	Roller Clamp/Connector	N/A	5,827,238	N/A	10/2//98	
22.	Assembly Automatic Air Eliminator	N/A	6,013,061	N/A	01/11/00	
23.	(CIP) Apparatus for	N/A	6,146,359	N/A	11/14/00	
23.	Controlledly Warming	19/23	0,140,557	14/11	11,14,00	
	Low Flow Rate Infusates					
24.	(DIV) Microwave	N/A	5,779,635	N/A	07/14/98	
2	Detection Apparatus for		_ , ,			
	Locating Cancerous					
	Tumors, Particularly					
	Breast Tumors					
25.	(CIP) Microwave	N/A	5,983,124	N/A	11/09/99	
	Detection of Tumors,					
	Particularly Breast					
	Tumors	00/5 - 5	27/1	00/04/00	>T/A	
26.	(CIP) Intracorporeal	09/368,179	N/A	08/04/99	N/A	
	Microwave Warming					
2=	Method and Apparatus	00/000 537	NI/A	12/01/97	N/A	
27.	Heat Treatment for Viral	08/980,536	N/A	12/01/97	IN/A	
	Inactivation					

SECURITY AGREEMENT (PATENTS)

This SECURITY AGREEMENT (PATENTS) (this "<u>Agreement</u>") is made as of March 30, 2001, by and between MICROWAVE MEDICAL SYSTEMS, INC., a Delaware corporation (the "<u>Borrower</u>") and KENNETH L. CARR, an individual (the "Lender").

All capitalized terms not defined herein but defined in the Security Agreement-All Assets, dated of even date herewith (as the same may be amended, modified, supplemented, extended or restated, from time to time, the "Security Agreement-All Assets") by and between the Borrower and the Lender, shall have the meanings given to such terms in the Security Agreement-All Assets.

Preliminary Statements:

WHEREAS, the Borrower has requested that the Lender make certain loans and extend certain credit to or for the benefit of the Borrower; and

WHEREAS, the Borrower owns the patents and the patent applications set forth in <u>Schedule 1</u> attached hereto and made a part hereof (collectively, the "<u>Patents</u>"); and

WHEREAS, as a condition precedent to making such loans and extending such credit to or for the benefit of the Borrower, and as a supplement to the Security Agreement-All Assets, the Lender has requested, and the Borrower has agreed to enter into this Agreement;

NOW, THEREFORE, in order to induce the Lender to make such loans and extend such credit to or for the benefit of the Borrower, and in consideration thereof and in consideration of the mutual covenants herein contained, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Borrower hereby agrees with the Lender as follows:

- 1. To secure the prompt and complete payment and performance when due (whether at the stated maturity, by acceleration or otherwise) of the Obligations, the Borrower does hereby grant to the Lender a continuing security interest in and to the Patents and all General Intangibles connected with the use of or related to any and all Patents (including without limitation, all goodwill of the Borrower and its business, products and services appurtenant to, associated with or symbolized by any and all Patents and the use thereof), together with all registrations of the Patents and the applications therefor, all in accordance with the terms and provisions of the Security Agreement-All Assets.
- 2. The Borrower and the Lender hereby expressly acknowledge and agree that all of the rights and remedies of the Lender with respect to the security interest granted hereby are more fully set forth in the Security Agreement-All Assets.

[THE REMAINDER OF THIS PAGE IS LEFT BLANK INTENTIONALLY]

IN WITNESS WHEREOF, the undersigned have caused this Agreement to be duly executed and delivered under their seals as of the date first above written.

WITNESS:

MICROWAVE MEDICAL SYSTEMS,

INC.

WITNESS:

Name:

Name:

Kenneth L. Carr

COMMONWEALTH OF MASSACHUSETTS

Suffolk County, ss.

March 30, 2001

Then personally appeared the above-named Richard Kelley as Vice President of Microwave Medical Systems, Inc., and acknowledged the foregoing instrument to be his free act and deed and the free act and deed of Microwave Medical Systems, Inc., before me.

Notary Public

My commission expires: 11/3/06

[AFFIX NOTARIAL SEAL]

COMMONWEALTH OF MASSACHUSETTS

Suffolk County, ss.

RECORDED: 04/06/2001

March 30, 2001

Then personally appeared the above-named Kenneth L. Carr, and acknowledged the foregoing instrument to be his free act and deed, before me.

Notary Public

My commission expires: 11/3/

JAFFIX NOTARIAL SEAL