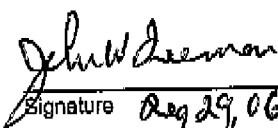


RECORDATION FORM COVER SHEET PATENTS ONLY

Commissioner for Patents: Please record the attached original document(s) or copy(ies).	
1. Name of conveying party(ies): ZMD Corporation 3411 Silverside Road Wilmington, DE 19810 Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): ZOLL Medical Corporation 269 Mill Road Chelmsford, MA 01824-4105 Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance: <input type="checkbox"/> Assignment <input checked="" type="checkbox"/> Ownership and Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: November 20, 2003	
4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s): 11/429,299 B: Patent No(s): Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name/address of party to whom correspondence concerning document should be mailed: G. ROGER LEE Fish & Richardson P.C. 225 Franklin Street Boston, MA 02110	6. Total number of applications/patents Involved: 1 7. Total fee (37 CFR §3.41): \$40 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to charge Deposit Account. 8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.
DO NOT USE THIS SPACE	
9. Statement and Signature: <i>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.</i>	
G. Roger Lee <u>Reg. No. 28,963</u> Name of Person Signing	 Signature Reg 29, 066 Date May 22, 2006
Total number of pages including coversheet, attachments and document: 12	

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CERTIFICATE OF TRANSMISSION BY FACSIMILE

I hereby certify that this correspondence is being transmitted by facsimile to the Patent and Trademark Office on the date indicated below.

5/22/06  Maureen Christiano
Date of Transmission Signature Typed Name of Person Signing Certificate

Delaware

PAGE 1

The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"ZMD CORPORATION", A DELAWARE CORPORATION,

WITH AND INTO "ZOLL MEDICAL CORPORATION" UNDER THE NAME OF "ZOLL MEDICAL CORPORATION", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF MASSACHUSETTS, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTIETH DAY OF NOVEMBER, A.D. 2003, AT 5:31 O'CLOCK P.M.

2202245 8100M

060090163



Harriet Smith Windsor

Harriet Smith Windsor, Secretary of State
AUTHENTICATION: 4488187

DATE: 01-31-06
PATENT

REEL: 017664 FRAME: 0593

OWNERSHIP AND MERGER

OF

ZMD CORPORATION,
 a Delaware corporation

Into

ZOLL MEDICAL CORPORATION,
 a Massachusetts corporation

The undersigned corporation organized and existing under and by virtue of the General Corporation Law of Delaware (the "DGCL"), DOES HEREBY CERTIFY:

FIRST: That the name and state of each of the constituent corporations of the merger is as follows:

<u>Name</u>	<u>State of Incorporation</u>
ZMD Corporation	Delaware
ZOLL Medical Corporation	Massachusetts

SECOND: That ZOLL Medical Corporation owns all of the issued and outstanding shares of each class of stock of ZMD Corporation.

THIRD: That ZOLL Medical Corporation is organized under the laws of the Commonwealth of Massachusetts and the Massachusetts Business Corporation Law permits the merger of a corporation organized under the laws of another state with a corporation organized under the laws of Massachusetts.

FOURTH: That ZOLL Medical Corporation (the "Company"), by the following votes of its Board of Directors, at a meeting held on April 16, 2003, determined to merge ZMD Corporation into ZOLL Medical Corporation:

VOTED: To declare advisable, approve and adopt the merger of ZMD Corporation with and into the Company (the "Merger"); and that the Chief Executive Officer and President, the Chief Financial Officer, the Treasurer and Clerk (each an "Authorized Officer"), be, and each of them acting singly, is, authorized, empowered and directed in the name and on behalf of the Company, to prepare, with the assistance of counsel, execute, acknowledge, and file or cause to be filed (i) with the Secretary of State of the State of Delaware, a Certificate of Ownership as required by Section 253 of the Delaware General Corporation Law ("DGCL") and (ii) with the Secretary of State of the

PATENT

REEL: 017664 FRAME: 0594

Commonwealth of Massachusetts, Articles of Merger as required by Section 82 of the Massachusetts Business Corporation Law; and to execute and deliver any and all additional documents and information required to be filed therewith and to incur any expenses as they or any of them deem necessary or desirable.

VOTED: That the Company hereby agrees that it may be served with process in Delaware and irrevocably appoints the Secretary of State of the State of Delaware as its agent for service of process as provided in Section 252(d) of the DGCL.

VOTED: That the Board of Directors has determined, in its judgment, that entering into and consummating the Merger and the transactions contemplated thereby is in the best interests of the Company and its stockholders.

VOTED: That the Merger shall become effective upon the filing of the Articles of Merger with the Secretary of State of the Commonwealth of Massachusetts; and that prior to the effective time of the Merger, either the board of directors of ZMD Corporation or the board of directors of the Company may abandon or terminate the Merger.

FIFTH: That the proposed Merger has been adopted, approved, certified, executed and acknowledged by ZOLL Medical Corporation in accordance with the laws of The Commonwealth of Massachusetts.

SIXTH: ZOLL Medical Corporation agrees that it may be served with process in Delaware in any proceeding for enforcement of any obligation of ZMD Corporation, as well as for enforcement of any obligation of ZOLL Medical Corporation arising from the Merger, and ZOLL Medical Corporation has irrevocably appointed the Secretary of State of the State of Delaware as its agent to accept service of process in any such suit or proceeding and that the Secretary of State may forward copies of such service of process to ZOLL Medical Corporation at its offices at 269 Mill Road, Chelmsford, Massachusetts, 01824-4103.

SEVENTH: That this Certificate of Ownership shall be effective upon the filing of the Articles of Merger with the Secretary of State of The Commonwealth of Massachusetts.

[SIGNATURE PAGE FOLLOWS]

I, John P. Bergeron, the Vice President and Treasurer of the Company, do make this Certificate on this 31st day of October, 2003, under penalties of perjury, and hereby acknowledge that this Certificate is the act and deed of ZOLL Medical Corporation and that the facts stated herein are true.

ZOLL MEDICAL CORPORATION

By: 
Name: John P. Bergeron
Title: Vice President and Treasurer

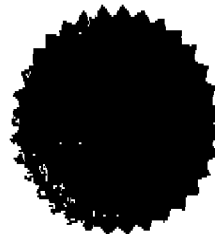
Delaware

PAGE 1

The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF RENEWAL OF "ZMD CORPORATION", FILED IN THIS OFFICE ON THE TWENTIETH DAY OF NOVEMBER, A.D. 2003, AT 5:30 O'CLOCK P.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



Harriet Smith Windsor
Harriet Smith Windsor, Secretary of State

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AUTHENTICATION: 2770439

DATE: 11-25-03

PATENT

REEL: 017664 FRAME: 0597

State of Delaware
 Secretary of State
 Division of Corporations
 Delivered 05:20 PM 11/20/2003
 FILED 05:30 PM 11/20/2003
 SEV 030748981 - 2202245 FILE

ZMD Corporation
CERTIFICATE
FOR RENEWAL AND REVIVAL OF
CERTIFICATE OF INCORPORATION

ZMD Corporation a corporation organized under the laws of Delaware, the Certificate of Incorporation of which was filed in the office of the Secretary of State on the 14th day of July, 1988 and thereafter voided for non-payment of taxes, now desiring to procure a revival of its Certificate of Incorporation, hereby certifies as follows:

1. The name borne by the corporation at the time its Certificate of Incorporation became void is ZMD Corporation.
2. Its registered office in the State of Delaware is located at Corporation Trust Center, 1208 Orange Street, City of Wilmington, County of New Castle and the name of its registered agent at such address is The Corporation Trust Company.
3. The date when revival of the Certificate of Incorporation of this corporation is to commence is 28th day of February, same being prior to the date the Certificate of Incorporation became void. Revival of the Certificate of Incorporation is to be perpetual.
4. This corporation was duly organized under the laws of Delaware and carried on its business authorized by its Certificate of Incorporation until the 1st day of March 2002 at which time its Certificate of Incorporation became inoperative and void for non-payment of taxes and this Certificate for Renewal and Revival is filed by authority of the duly elected directors of the corporation with the laws of Delaware.

IN WITNESS WHEREOF, said ZMD Corporation in compliance with Section 312 of Title 8 of the Delaware Code has caused this Certificate to be signed by John P. Bergeron, its last and acting Vice President and Treasurer, this 20th day of November 2003

By: John P. Bergeron
 John P. Bergeron
 Vice President and Treasurer

ZOLL Medical Corporation

Our Reference	Client Reference Title	Status Inventors/Applicants	Filed Serial No.	Issue Patent No.
04644-008001	METHOD AND APPARATUS FOR TRANSCUTANEOUS ELECTRICAL CARDIAC PACING	ISSUED Gary A. Freeman	6/12/1990 07/536,968	3/16/1993 5,193,537
04644-009001	METHOD AND APPARATUS FOR TRANSCUTANEOUS ELECTRICAL CARDIAC PACING WITH BACKGROUND STIMULATION	ISSUED Gary A. Freeman	6/12/1990 07/537,069	4/27/1993 5,205,284
04644-009002	METHOD AND APPARATUS FOR TRANSCUTANEOUS ELECTRICAL CARDIAC	ISSUED Gary A. Freeman	1/9/1992 07/819,344	2/1/1994 5,282,843
04644-016001	DEFIBRILLATION DISCHARGE CIRCUIT TEST	ISSUED Randall W. Fincke	2/21/1992 07/839,954	10/5/1993 5,249,573
04644-017001	ELECTRICAL CONNECTION BETWEEN TRANSCUTANEOUS PACING	ISSUED Michael L. Lopin	2/21/1992 07/839,796	2/8/1994 5,284,135
04644-018001	DEFIBRILLATION DISCHARGE CURRENT SENSOR	ISSUED Randall W. Fincke et. al.	2/21/1992 07/839,375	7/6/1993 5,225,769
04644-019001	DEFIBRILLATION ELECTRODE SWITCH CONDITION SENSING	ISSUED Michael L. Lopin	2/21/1992 07/839,785	1/4/1994 5,275,158
04644-020001	COMBINED DEFIBRILLATION AND PACING ELECTRODE	ISSUED Randall W. Fincke	5/1/1992 07/877,838	7/19/1994 5,330,526
04644-028001	METHOD AND APPARATUS FOR TRANSCUTANEOUS ELECTRICAL CARDIAC PACING	ISSUED Gary A. Freeman	7/19/1993 08/093,817	7/11/1995 5,431,688

04644-036001	ISSUED	8/26/1998	8/28/2001
REDUCING SKIN DAMAGE IN USE OF MEDICAL ELECTRODES		09/140,817	6,280,463
	Michael R. Dupelle Sheldon s. White		
04644-036002	ISSUED	10/12/2000	9/17/2002
REDUCING SKIN DAMAGE IN USE OF MEDICAL ELECTRODES		09/689,117	6,453,205
	Michael R. Dupelle Sheldon s. White		
04644-037001	ISSUED	10/28/1993	10/31/1995
ELECTRODE PACKAGE		08/144,665	5,462,157
	Gary A. Freeman et al.		
04644-041001	ISSUED	2/22/1994	2/21/1995
SEMI-AUTOMATIC DEFIBRILLATOR WITH HEART RATE ALARM DRIVEN BY SHOCK ADVISORY ALGORITHM		08/200,781	5,391,187
	Gary A. Freeman		
04644-042001	ISSUED	2/22/1994	4/16/1996
SEMI-AUTOMATIC DEFIBRILLATOR WITH SYNCHRONIZED SHOCK DELIVERY		08/200,778	5,507,778
	Gary A. Freeman		
04644-043001	ISSUED	6/10/1994	11/28/1995
DETACHABLE POWER SUPPLY FOR SUPPLYING EXTERNAL POWER TO A PORTABLE DEFIBRILLATOR		08/258,238	5,470,343
	Randall W. Fincke et al.		
04644-046001	ISSUED	12/2/1994	11/19/1996
MEDICAL DEVICE POWER SUPPLY WITH AC DISCONNECT ALARM AND METHOD OF SUPPLYING POWER TO A MEDICAL DEVICE		08/353,389	5,575,807
	Frederick W. Fallar		
04644-054001	ISSUED	12/18/1996	8/25/1998
ELECTROTHERAPY CIRCUIT FOR PRODUCING CURRENT WAVEFORM WITH SAWTOOTH RIPPLE		08/769,046	5,797,968
	Michael L. Lopin et al.		
04644-056001	ISSUED	12/18/1996	8/23/1998
ELECTROTHERAPY CIRCUIT FOR SHAPING CURRENT WAVEFORMS		08/769,778	5,769,872
	Michael L. Lopin et al.		
04644-057001	ISSUED	12/18/1996	8/1/2000
ELECTROTHERAPY CIRCUIT HAVING CONTROLLED CURRENT DISCHARGE BASED ON PATIENT-DEPENDENT ELECTRICAL PARAMETER		08/769,773	6,096,063
	Michael L. Lopin Shervin Ayati		

04644-058001	ELECTROTHERAPY CIRCUIT HAVING CONTROLLED PEAK CURRENT	ISSUED	12/18/1996 08/769,777	9/1/1998 5,800,463
		Michael L. Lopln et al.		
04644-059001	ELECTROTHERAPY CIRCUIT FOR PRODUCING THERAPEUTIC DISCHARGE WAVEFORM BASED ON HIGH-CURRENT SENSING PULSE	ISSUED	12/18/1996 08/769,045	9/1/1998 5,800,462
		Michael L. Lopln et al.		
04644-060001	ELECTROTHERAPY CIRCUIT FOR PRODUCING THERAPEUTIC DISCHARGE WAVEFORM IMMEDIATELY FOLLOWING SENSING PULSE	ISSUED	12/18/1996 08/769,776	3/31/1998 5,733,310
		Michael L. Lopln et al.		
04644-062001	PROTECTING MEDICAL ELECTRODES FROM CORROSION	ISSUED	6/18/1998 09/099,256	2/1/2000 6,019,877
		Michael R. Dupelle Deborah T. Jones Carolyn L. Schmiedeknecht Sheldon s. White		
04644-064001	ELECTROTHERAPY CURRENT WAVEFORM	ISSUED	8/13/1997 08/910,757	5/18/1999 5,904,706
		Shervin Ayati et al		
04644-068001	ELECTRODE PACKAGE	PENDING	10/31/1997 08/962,271	
		Ward M. Hamilton Gary Freeman		
04644-086001	DEFIBRILLATORS	PUBLISHED	9/14/2001 09/952,834	
		Ward Hamilton Frederick W. Faller		
04644-088001	PULSE SENSORS	PUBLISHED	5/1/2001 09/846,673	
		Michael R. Dupelle Paul F. Prew Sheldon S. White		
04644-097001	INTEGRATED RESUSCITATION	PUBLISHED	2/27/2001 09/794,320	
		Gary A. Freeman		
04644-100001	DEFIBRILLATORS	PUBLISHED	8/23/2001 09/938,021	
		Frederick W. Faller Ward Hamilton		
04644-101001	SKIN-APPLIED ELECTRODE PADS	PUBLISHED	8/23/2001 09/938,063	
		Michael R. Dupelle Deborah T. Jones		

04644-102001	DEFIBRILLATION ELECTRODE ASSEMBLY INCLUDING CPR PAD	ALLOWED	9/14/2001 09/952,837	
		Michael R. Dupelle Deborah T. Jones Ward Hamilton Frederick W. Faller		
04644-109001	STORAGE OF DEFIBRILLATION ELECTRODES	ISSUED	9/28/2001 09/967,492	8/26/2003 6,611,709
		Frederick W. Faller Ward Hamilton Michael R. Dupelle Wayne A. Reval		
04644-110001	EXTERNAL DEFIBRILLATOR	ISSUED	9/9/2002 29/167,065	1/6/2004 D484,981
		Frederick W. Faller Ward Hamilton ANTHONY PANNOZZO GREG KENNY		
04644-121001	DEFIBRILLATOR ELECTRODE ASSEMBLY	PENDING	9/9/2002 29/167,062	
		Frederick W. Faller Ward Hamilton Michael R. Dupelle Deborah T. Jones		
04644-121002	DEFIBRILLATOR ELECTRODE ASSEMBLY	ALLOWED	4/23/2003 29/180,419	
		Frederick W. Faller Ward Hamilton Michael R. Dupelle Deborah T. Jones		
04644-122001	GRAPHIC INTERFACE FOR AN EXTERNAL DEFIBRILLATOR	ISSUED	9/9/2002 29/167,061	1/13/2004 D485,360
		FREDERICK W. Faller Ward Hamilton ANTHONY PANNOZZO GREG KENNY		
04644-125001	SKIN-APPLIED ELECTRODE PADS	PENDING	6/19/2003 10/465,020	
		DAVID N. CRAIGE III Michael R. Dupelle Sheldon s. White		
04644-126001	MEDICAL ELECTRODES WITH LONG STORAGE LIFE	PENDING	6/27/2003 10/608,999	
		SHELDON S. WHITE Michael R. Dupelle		
04644-127001	MULTI-CONFIGURATION DEFIBRILLATION CONNECTOR	PENDING	6/27/2003 10/608,861	
		Michael R. Dupelle		

04644-128001	CPR SENSITIVE ECG ANALYSIS IN AN AUTOMATIC EXTERNAL DEFIBRILLATOR	PENDING	2/19/2003 10/370,036
		ZIAD ELGHAZZAWI NEIL AKIYAMA CIRO DE LA VEGA DONALD R. BOUCHER	
04644-128WO1	CPR SENSITIVE ECG ANALYSIS IN AN AUTOMATIC EXTERNAL DEFIBRILLATOR	PENDING	2/12/2004 US04/04115
		ZIAD ELGHAZZAWI NEIL AKIYAMA CIRO DE LA VEGA DONALD R. BOUCHER	
04644-132001	PROCESSING PULSE SIGNAL IN CONJUNCTION WITH ECG SIGNAL TO DETECT PULSE IN EXTERNAL DEFIBRILLATION	PENDING	5/20/2003 10/441,933
		ALAN MARCOVECCHIO FREDRICK GEHEB DONALD R. BOUCHER	
04644-133001	CARDIO-PULMONARY RESUSCITATION DEVICE WITH FEEDBACK FROM MEASUREMENT OF PULSE AND/OR BLOOD OXYGENATION	PENDING	6/27/2003 10/609,001
		DONALD R. BOUCHER FREDERICK GEHEB	