FORM PTO- Expires 06/30/99 OMB 0651-0027	1619A		ı	U.S. Department of Commerce Patent and Trademark Office PATENT
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	nissioner of Patents and T		attached original docu	ment(s) or copy(ies).
Submission	Туре	Conveyance Typ		
XX New		X Assignment	Security Agree	ement
Resubmit Documer	ssion (Non-Recordation) nt ID#	License	Change of Nan	ne
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Reel # Correctiv	E Document		U.S. Government se ONLY by U.S. Government	Agencies)
Reel #	Frame #		partmental File	Secret File
Conveying F	² arty(ies)	Mark if additional	names of conveying partic	es attached Execution Date Month Day Year
Name (line 1)	InControl, Inc.			02021999
Name (line 2)				
Second Party				Execution Date Month Day Year
Name (line 1)				
Name (line 2)				
Receiving P	arty	M	lark if additional names of	receiving parties attached
Name (line 1)	Cardiac Pacemakers,	, Inc.		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)	4100 Hamline Avenue	North		of a domestic representative is attached.
Address (line 2)				(Designation must be a separate document from
				Assignment.)
Address (line 3)	St. Paul	Minnesota State/Country	55112 Zip C	
Domestic Re	epresentative Name a	and Address Enter f	or the first Receiving Party	only.
Name				
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Mail documents to be recorded with required cover sheet(s) information to: Commissioner of Patents and Trademarks, Box Assignments , Washington, D.C. 20231

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U.S. Department of Commerce
Patent and Trademark Office

OMB 0651-0027 PATENT
Correspondent Name and Address Area Code and Telephone Number 312/755-2580
Name Malcolm McCaleb, Jr./Darlene L. Gentry
Address (line 1) Foley & Lardner
Address (line 2) 330 North Wabash Avenue, Suite 3300
Address (line 3) One IBM Plaza
Address (line 4) Chicago, Illinoius 60611
Pages Enter the total number of pages of the attached constrained document # including any attachments.
Application Number(s) or Patent Number(s)
Enter either the Patent Application Number or the Patent Number of AQT ENTER BOTH numbers for the Same Description.
Patent Application Number(s)
08970879 09034542 09060544 5158079 5135004 5282837
09060723 08984588 09099045 5313953 5433729 5251624
09102844 09102855 09130385 5304218 5348021 5342408
If this document is being filed together with a <u>new</u> Patent Application, enter the date the patent application was signed by the first named executing inventor. Month Day Year
Patent Cooperation Treaty (PCT)
Enter PCT application number
only if a U.S. Application Number PCT PCT PCT PCT PCT
Number of Properties Enter the total number of properties involved. # 78
Fee Amount for Properties Listed (37 CFR 3.41): \$ 3120.00
Method of Payment: Enclosed XX Deposit Account Deposit Account
(Enter for payment by deposit account or if additional fees can be charged to the account.)
Deposit Account Number: # 06-1450
Authorization to charge additional fees: Yes XX 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.
Malcolm McCaleb, Jr. Wholm Walth on 2/23/99
Name of Person Signing Signature Date

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RECORDATION FORM COVER SHEET CONTINUATION PATENTS ONLY

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

Communication De		· · · · · · · · · · · · · · · · · · ·		
Conveying Pa		onal names of conveying partie	s attached	Execution Date
Enter additional C				Month Day Year
Name (line 1)	nControl, Inc.			02021999
Name (line 2)				
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Name (line 2)				Execution Date
Name (line 1)				Month Day Year
Name (line 2)				
Receiving Pa	rty(ies)	Mark if additional names of rec	eiving partie	s attached
Enter additional R	eceiving Party(ies)			
Name (line 1)	Cardiac Pacemakers, Inc.			If document to be recorded is an assignment and the
Nama (iiia)				receiving party is not domiciled in the United
Name (line 2)		·		States, an appointment of a domestic representative
Address (line 1)	4100 Hamline Avenue North			is attached. (Designation must be a separate
Address w. s.				document from
Address (line 2)				Assignment.)
Address (line 3)	St. Paul Minne		55112	
, ,	City	State/Country	Zip Cod	е
Name (line 1)				If document to be recorded
				I is an assignment and the receiving party is not
Name (line 2)				domiciled in the United States, an appointment of a
Address (line 1)				domestic representative is attached. (Designation must
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Address (line 2)				•
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Application N	umber(s) or Patent Number(s)	State/Country XX Mark if additional purpose	Zip Cı	ode
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	tent Application Number(s)		ent Numb	· · · •
09148094	09146948 09108902		269298	5282836
09103218	09108898	5265600	267559	5304139
		5279291 5:	332400	5395373
		E464432	250402	E212444
		5464432	350402	5312444
		5388578 54	411031	5522852

Assignment from InControl, Inc. to Cardiac Pacemakers, Inc.

Additional Patent Numbers

5405375	5531781	5350404
5387233	5522850	5549641
5458621	5464433	5527345
5486198	5584864	5486199
5330496	5403354	5476498
5490862	5509925	5554175
5507780	5441519	5531768
5464431	5562709	5628774
5620467	5662691	5578063
RE35779	5813999	5674250
5674249	5697954	5766224
5645569	5683403	5674253
5676687	5676153	5814081
5785059		

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United States

ASSIGNMENT OF PATENT RIGHTS

WHEREAS, InControl, Inc., A Corporation of Delaware, 6675 – 185th Avenue NE, Redmond, Washington 98052-6734, USA("Assignor"), is the owner of the patents and patent applications set forth on the attached Schedule.

WHEREAS, Cardiac Pacemakers, Inc., A Corporation of Delaware, 4100 Hamline Avenue, St. Paul, Minnesota 55112, USA ("Assignee") is desirous of acquiring the patents and patent applications set forth in the attached Schedule.

NOW THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR by these presents does sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right to the patents and patent applications as described the attached Schedule, in the United States and all foreign countries, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States adheres, and hereby authorize and requests the Commissioner of Patents to issue said Letters Patents to ASSIGNEE, for the sole use and benefit of ASSIGNEE, its successors, assigns and legal representatives.

AND HEREBY ASSIGNOR AGREES to transfer a like interest upon request of ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements and applications for patents based thereon, growing out of or relating to the inventions; and to provide all reasonable assistance and execute any

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papers deemed essential by ASSIGNEE, its successors, assigns and legal representatives, to ASSIGNEE's full protection and title in and to the inventions hereby transferred.

AGREEING, FURTHERMORE, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

EXECUTED this 2 day of Folyon 1999

InControl, Inc.

Name: Ralph F. Hall

Title: Secretary

State of <u>Minnesota</u>)
SS

County of Ramsey)

On this 16 day of Februard before me appeared Ralph F. Hall, known to me personally and in the capacity in which he has signed, and after executing this document acknowledged and affirmed that he did so freely, and in the capacity indicated, and that he has the power and authority to do so in that capacity and on behalf of that entity.

Brenda S. Venjohn Notary Public

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SCHEDULE

Title	Appln. No.	Appln.	Patent No.	Issue
Implementable Davies for Proventing	07/660541	Date 2/25/91	5158079	Date 10/27/92
Implantable Device for Preventing Tachyarrythmias	07/660341	2/23/91	3138079	10/2//92
Implantable Myocardial Ischemia	07/667819	3/12/91	5135004	8/4/92
Monitor and Related Method	07/00/019	3/12/91	3133004	0/4/92
Atrial Defibrillator and Method	07/685130	4/12/91	5282837	2/1/94
Implantable Cardiac Patient	07/820580	1/14/92	5313953	5/24/94
Monitor	077820380	1/14/92	3313933	3124/34
Improved Atrial Defibrillator, Lead	07/856514	3/24/92	5433729	7/18/95
Systems, and Method	07/630314	3124132	3433729	//10/93
Pulse Generator for Use in an	07/902998	6/22/92	5251624	10/12/93
Implantable Atrial Defibrillator	011702770	OI ZZI JZ	3231024	10/12/93
Cardiac Lead Implanting	07/892177	6/2/92	5304218	4/19/94
Arrangement and Method	017072177	0/2/72	3304210	4/1///4
Apparatus and Method for Reliably	07/861184	3/31/92	5348021	9/20/94
Detecting a Depolarization	077001104	3/31/72	3340021	7/20/74
Activation Wave of the Heart and				
Atrial Defibrillator				
Telemetry System for an	08/001330	1/7/93	5342408	8/30/94
Implantable Cardiac Device				0,20,7
Atrial Defibrillator and Method for	07/965195	10/23/92	5207219	5/4/93
Providing Interval Timing Prior to				
Cardioversion				
Atrial Defibrillator and Method for	07/965168	10/23/92	5269298	12/14/93
Providing Synchronized Delayed				
Cardioversion				
Atrial Defibrillator and Method for	07/965167	10/23/92	5282836	2/1/94
Providing Pre-Cardioversion Pacing	:			
Atrial Defibrillator and Method for	07/965156	10/23/92	5265600	11/30/93
Providing Post-Cardioversion				
Pacing				
Atrial Defibrillator and Method for	07/965166	10/23/92	5267559	12/7/93
Providing Atrial Sensing				
Improved Lead Configuration for	07/924109	8/3/92	5304139	4/19/94
an Atrial Defibrillator				
Method for Atrial Defibrillation	07/924323	8/3/92	5279291	1/18/94
Atrial Defibrillator and Method for	07/996656	12/24/92	5332400	7/26/94
Providing Pre-Cardioversion				
Warning				

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Title	Appln. No.	Appln. Date	Patent No.	Issue Date
Atrial Defibrillator and Method for Setting Energy Threshold Values	08/001454	1/7/93	5395373	3/7/95
Implantable Atrial Defibrillator Having an Intermittently Activated Fibrillation Detector	08/232767	4/25/94	5464432	11/7/95
Atrial Defibrillator and Method for Providing T Wave Detection and Interval Timing Prior to Cardioversion	08/067688	5/26/93	5350402	9/27/94
Crosspoint Switch with Improved Discharge Control for Use in an Implantable Defibrillator	08/091213f	7/13/93	5312444	5/17/94
Improved Electrode System for Use with an Implantable Cardiac Patient Monitor	08/043269	4/6/93	5388578	2/14/95
Implantable Cardiac Patient Monitor	08/157605	11/24/93	5411031	5/2/95
Selective Cardiac Activity Analysis Atrial Fibrillation Detection System and Method and Atrial Defibrillator	08/233251	4/26/94	5522852	6/4/96
Combined Mapping, Pacing, and Defibrillating Catheter	08/184375	1/21/94	5405375	4/11/95
Implantable Lead Having a Steering Distal Guide Tip	08/145716	11/2/93	5531781	7/2/96
Lead System for Use with an Atrial Defibrillator and Method	08/130308	10/1/93	5350404	9/27/94
Intravenous Cardiac Lead with Improved Fixation and Method	08/147330	11/3/93	5387233	2/7/95
Defibrillation and Method for Cardioverting Heart and Storing Related Activity Data	08/264319	6/23/94	5522850	6/4/96
Atrial Fibrillation Type Selective Cardiovertor and Method	08/331898	10/31/94	5549641	8/27/96
Automatic Gain Control and Method for Enabling Detection of Low and High Amplitude Depolarization Activation Waves of	08/213119	3/15/94	5458621	10/17/95
Atrial Defibrillator and Method Providing Dual Reset of an Interval Timer	08/259515	6/14/94	5464433	11/7/95
An Implantable Atrial Defibrillator Having an Intermittently Activated Pacing Modality	08/243858	5/17/94	5527345	6/18/96

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Title	Appln. No.	Appln. Date	Patent No.	Issue Date
Atrial Defibrillator and Method for Providing Interval Timing of Successive Intervals Prior to Cardioversion	08/289701	8/12/94	5486198	1/23/96
Cardioversion Synchronization System and Method for an Atrial Defibrillator	08/259476	6/14/94	5584864	12/17/96
System and Method for Reducing False Positives in Atrial Fibrillation Detection	08/278055	7/20/94	5486199	1/23/96
Vascular Catheter Assembly for Tissue Penetration and for Cardiac Stimulation and Methods Thereof	07/695724	5/6/91	5330496	7/19/94
Defibrillator and Method Utilizing Three Channel Sensing	08/297145	8/29/94	5403354	4/4/95
Coronary Sinus Channel Lead and Method	08/290606	8/15/94	5476498	12/19/95
Atrial Defibrillator Having Patient Activated Modality	08/306665	9/15/94	5490862	2/13/96
Atrial Fibrillation Detector and Defibrillator Using the Same	08/346484	11/29/94	5509925	4/23/96
Therapy Termination in an Atrial Defibrillator and Method	08/346500	11/29/94	5554175	9/10/96
Selective Default Data Storage for an Implantable Atrial Defibrillator	08/377913	1/25/95	5507780	4/16/96
Implantable Atrial Defibrillator Having Delayed Intervention Therapy	08/383894	2/6/95	5441519	8/15/95
Implantable Atrial Defibrillator Having Ischemia Coordinated Intervention Therapy and Method	08/391156	2/21/95	5531768	7/2/96
Atrial Fibrillation Detector	08/410829	3/27/95	5464431	11/7/95
Atrial Defibrillator Having Both Specific and Sensitive R Wave Detection	08/423968	4/18/95	5562709	10/8/96
Cardiac Lead with Composite Insulating Structure	08/429886	4/27/95	5628774	5/13/97
Implantable Atrial Defibrillator Having Cardioverting Output Voltage Limiting for Simulating Larger Storage	08/541682	10/10/95	5620467	4/15/97
System and Method for Implanting an Implantable Cardiac Device	08/561884	11/22/95	5662691	9/2/97

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Title	Appln. No.	Appln. Date	Patent No.	Issue Date
Implantable Atrial Defibrillator and System Having Multiple Channel Electrogram Telemetry and Method	08/545397	10/19/95	5578063	11/26/96
Post-Heart Surgery Cardioverting System and Method	08/608410	2/28/96	RE 35779	4/28/98
Implantable Atrial Defibrillator Providing Reduced Cardioversion Discomfort	08/576671	12/21/95	5813999	9/29/98
Atrial Defibrillator and Method for Providing Adaptive Control of Defibrillator Output Voltage	08/641100	4/29/96	5674250	10/7/97
Atrial Defibrillation System Having a Portable Communication Device	08/641976	5/2/96	5674249	10/7/97
Defibrillation System Including an Atrial Defibrillator and Ventricular Defibrillation Backup	08/641783	5/2/96	5697954	12/16/97
Temporary, Post-Heart Surgery Cardioverting and Pacing System and Lead Systems for Use Therein	08/627688	4/2/96	5766224	6/6/98
Post Atrial Cardioversion Atrial Pacing and Method	08/659138	6/4/96	5645569	7/8/97
Implantable Lead Suture Sleeve	08/630920	4/5/96	5683403	11/4/97
Cardioversion System with Cardioverting Energy Attenuator	08/708218	9/6/96	5674253	10/7/97
Post Atrial Cardioversion High Rate Atrial Pacing with Gradual Rate Return	08/730500	10/11/96	5676687	10/14/97
System and Method for Determining Spatial Organization of Atrial Activation	08/738329	10/25/96	5676153	10/14/97
Atrial Flutter Cardioverter and Method	08/835169	4/7/97	5814081	9/29/98
Method of Releasing Conductive Elements from Fibrotic Tissue	08/846413	4/3/97	5785059	7/28/98
System for Detecting Atrial Fibrillation Notwithstanding High and Variable Ventricular Rates	08/970879	11/14/97		
Atrial Tracking Cardiac Stimulator	09/034542	3/3/98		
Atrial Defibrillation System Including a Portable Audible Speech Communication Device	09/060544	4/15/98		

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Title	Appln. No.	Appln. Date	Patent No.	Issue Date
Atrial Defibrillation System Having Patient Selectable Atrial Fibrillation	09/060723	4/15/98		
Detection				
Implantable Atrial Defibrillator	08/984588	12/3/97		
Having Therapy Inhibition				
Responsive to Atrial Cycle Length				
Dual Chamber Pulse Generator with	09/099045	6/17/98		
Periodic PMT Control				
Method and System for Detecting	09/102844	6/23/98		
Dislodgment of an Implanted Right				
Atrial Endocardial Lead				
Method and System for Detecting	09/102855	6/23/98		
Dislodgment of an Implanted Right				
Atrial Endocardial Lead Using				
Sensing Periods				
Atrial Cardioverter with Window	09/130385	8/6/98		
Based Atrial Tachyarrhythmia				
Detection System and Method				
Cardoverter and Method for	09/148094	9/3/98		
Cardioverting an Atrial				
Tachyarrhythmia in the Presence of				
Atrial Pacing				
Cardioverter and Method for	09/146948	9/3/98		
Cardioverting an Atrial				
Tachyarrhythmia While Maintaining				
Atrial Pacing				
System and Method for Reliably	09/108902	7/1/98		
Detecting Atrial Events of a Heart				
Using Atrial Sensing				
Method and System for Detecting	09/103218	6/23/98		
Dislodgment of an Implanted Right				
Atrial Endocardial Lead Using a				
Sensing Period	-			
System and Method for Detecting	09/108898	7/1/98		
Atrial Events of a Heart				

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RECORDED: 03/01/1999