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To the Honorable Cognissioner of Patents and Ti 1. Name of conveying party(les): (a) Pinaki Ray (b) Vinayak D. Bhat (c) Daryush Mirzae Additional name(s) of conveying party(les) attached? Additional name(s) of conveying party(les) attached? Additional name(s) of conveying party(les) attached? Name and address: 3200 Lakeside Drive City: Santa Clara State: QA Zip: 95052-8157 Country: USA Name and address: 3200 Lakeside Drive City: Santa Clara State: QA Zip: 95052-8157 Country: USA Name and address: 3200 Lakeside Drive City: Santa Clara State: QA Zip: 95052-8157 Country: USA Name and address of receiving party(les): Name: Same as above Street Address: City: State: Zip: Country: Lake Lake Lake Lake Lake Lake Lake Lake		ATTORNEY DOCKET NO: MI-7/19 US	
To the Honorable Commissioner of Patents and TI 1. Name of conveying Anhyld NACE (a) Pinaki Ray (b) Vinayak D. Bhat (c) Danyush Mirzase Additional name(s) of conveying partylies) attached? (c) Danyush Mirzase Additional name(s) of conveying partylies) attached? (d) Danyush Mirzase Additional name(s) of conveying partylies) attached? (e) Danyush Mirzase Additional name(s) of conveying partylies) attached? (f) Danyush Mirzase Additional name(s) of conveying partylies) attached? (g) Danyush Mirzase Additional name(s) of conveying partylies) attached? (h) Vinayak D. Bhat (c) Danyush Mirzase Additional name(s) of conveying partylies) attached? (h) Vinayak D. Bhat (NAMO NECO 04-	U.S. DEPARTMENT OF COMMERCI Patent and Trademark Office	
To the Honorable Commessorer of Patents and TI 1. Name of conveying partylles): 1. Name of conveying partylles): 2. Name and address of receiving partyles): 2. Name and address of receiving partyles): 3. Nature of Conveying pertyles) attached? 4. Assignment			
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Name Advanced Cardiovascular Systems	To the Honorable Commissioner of Patents and 11	,000010	
(a) Pindal Ray (b) Vinayak D. Bhat (c) Daryush Mirzaee Additional name(s) of conveying party(ies) attached? Ves	1, Name of Conveying partylines).		
(c) Daryush Mirzaee Additional name(s) of conveying party(ies) attached? Yes No	(a) Pinaki Ray		
(c) Daryush Mirzaee Additional name(s) of conveying party(ies) attached? Yes No	(b) Vinayak D. Bhat		
Yes No Name and address of receiving party(ies): Assignment Merger Street Address: State: Zip:	, , , , , , , , , , , , , , , , , , ,		
Name: Same as above		Country: USA	
Street Address: Security Agreement	3. Nature of Conveyance:	Name and address of receiving party(ies):	
Security Agreement Change of Name City: State: Zip: Country: Execution Date: March 1, 2000 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A Patent Application No.(s): 09/475,727 Title: A Substance Delivery Apparatus And A Method Of Delivering A Therapeutic Substance To An Anatomical Passageway Additional numbers attached? Yes No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Cameron Kerngan Internal Address: Skijerven, Morrilla. MacPHERSON. FRANKLIN & FRIEL LLP Street Address: THREE EMBARCADERO CENTER, SUITE 2800 City SAN FRANCISCO State CA ZIP 94110 Charge Deposit Account 19-2386 for any additional fees required for this conveyance and credit deposit account 19-2386 any amounts overpaid DO NOT USE THIS SPACE 8. 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. Cameron Kerrigan, Reg. No. 44,826 Name of Person Signing City: State: Zip: Country: Country:	Assignment Merger	Name: Same as above	
City: State: Zip: Other	Change of Name	Street Address:	
Execution Date: March 1, 2000 4. Application number(s) or patient number(s): If this document is being filed together with a new application, the execution date of the application is: A Patient Application No.(s) - 09/475,727 Title: A Substance Delivery Apparatus And A Method Of Delivering A Therapeutic Substance To An Anatomical Passageway Additional numbers attached? Yes No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Cameron Kerrigan Internal Address: SKJERVEN, MORRILL MacPHERSON. FRANKLIN & FRIELLLP Street Address: THREE EMBARCADERO CENTER, SUITE 2800 City SAN FRANCISCO State CA ZIP 94110 DO NOT USE THIS SPACE 8. 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. Cameron Kerrigan, Reg., No. 44,826 Name of Person Signing Name of Person Signing	Security Agreement Change of Name	City: State: Zip:	
A. Application number(s) or patent number(s): If this document is being flied together with a new application, the execution date of the application is: A. Patent Application No.(s) - 09/475,727 Title: A Substance Delivery Apparatus And A Method Of Delivering A Therepeutic Substance To An Anatomical Passageway Additional numbers attached? Yes No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Carneron Kerrigan Internal Address: SKJERVEN, MORRILL, MacPHERSON, FRANKLIN & FRIEL LLP Street Address: THREE EMBARCADERO CENTER, SUITE 2800 City SAN FRANCISCO State CA ZIP 94110 DO NOT USE THIS SPACE 8. 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. Cameron Kerrigan, Reg. No. 44,826 Name of Person Signing Name and Address of party to whom correspondence and credit deposit account 19-2386 Charge Deposit Account 19-2386 for any additional fees required for this conveyance and credit deposit account 19-2386 any amounts overpaid 21-250 Cameron Kerrigan, Reg. No. 44,826 Name of Person Signing	Other	Country:	
If this document is being filed together with a new application, the execution date of the application is: A Patent Application No.(s) - 09/475,727 Title: A Substance Delivery Apparatus And A Method Of Delivering A Therapeutic Substance To An Anatomical Passageway Additional numbers attached? Yes No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Cameron Kerngan Internal Address: SKJERVEN MORRILL MacPHERSON. FRANKLIN & FRIEL LLP Street Address: THREE EMBARCADERO CENTER, SUITE 2800 City SAN FRANCISCO State CA ZIP 94110 DO NOT USE THIS SPACE 8. 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. Cameron Kerrigan, Reg. No. 44,826 Name of Person Signing National No.(s) B. Patent No.(s) B. Patent No.(s) 8. Patent No.(s) Total number of applications and patents involved: J	Execution Date: March 1, 2000		
5. Name and address of party to whom correspondence concerning document should be mailed: Name: Cameron Kerrigan Internal Address: SKJERVEN, MORRILL, MacPHERSON, FRANKLIN & FRIEL LLP Street Address: THREE EMBARCADERO CENTER, SUITE 2800 City SAN FRANCISCO State CA ZIP 94110 DO NOT USE THIS SPACE 8. 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. Cameron Kerrigan, Reg. No. 44,826 Name of Person Signing 6. Total number of applications and patents involved: 7. Total fee (37 CFR 3.41):	A Patent Application No.(s+- 09/475,727 Title: A Substance Delivery Apparatus And A Method Of Delivering A Therapeutic Substance To An Anatomical	B. Patent No.(s)	
Name: Carneron Kerrigan Internal Address: SKJERVEN MORRILL MacPHERSON. FRANKLIN & FRIEL LLP Street Address: THREE EMBARCADERO CENTER, SUITE 2800 City SAN FRANCISCO State CA ZIP 94110 DO NOT USE THIS SPACE 8. 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. Cameron Kerrigan, Reg. No. 44,826 Name of Person Signing North Morrigan (Reg. No. 44,826) Name of Person Signing North Morrigan (Reg. No. 44,826) Signature 7. Total fee (37 CFR 3.41):		rs attached?	
Internal Address: SKJERVEN, MORRILL. MacPHERSON. FRANKLIN & FRIEL LLP Street Address: THREE EMBARCADERO CENTER, SUITE 2800 City SAN FRANCISCO State CA ZIP 94110 Charge Deposit Account 19-2386 for any additional fees required for this conveyance and credit deposit account 19-2386 any amounts overpaid DO NOT USE THIS SPACE 8. 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. Cameron Kerrigan, Reg. No. 44,826 Name of Person Signing 7. Total fee (37 CFR 3.41):			
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8. 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. Cameron Kerrigan, Reg. No. 44,826 Name of Person Signing Name of Person Signing Name of Person Signing Name of Person Signing		Authorized to be charged to Deposit Account 19-2386	
8. 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. Cameron Kerrigan, Reg. No. 44,826 Name of Person Signing Name of Person Signing Name of Person Signing	City SAN FRANCISCO State CA ZIP 94110	required for this conveyance and credit deposit account	
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. Cameron Kerrigan, Reg. No. 44,826 Name of Person Signing Date	DO NOT	USE THIS SPACE	
Name of Person Signing Signature Date	To the best of my knowledge and belief, the foregoing informati	on is true and correct and any attached copy is a true copy	
25/2000 TT0N11 00000173 192386 09475727 Total number of pages comprising cover sheet: 1		imen ferry 3/7/200 Signature 3/7/200	
	25/2000 TTDN11 00000173 192386 09475727	Total number of pages comprising cover sheet: 1	

PATENT REEL: 010720 FRAME: 0272

Attorney Docket No.: M-7719 US

ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, we

Pinaki Ray	of	Fremont, California	
Vinayak D. Bhat	of	Sunnyvale, California	
Daryush Mirzaee	of	Sunnyvale, California	
nereby sell, assign and transfer to Advanced Cardiovascular Systems, a Indiana corporation, having a place of business at 3.200 Lakeside Drive. Santa Clara, CA 95052-8167, its successors and assigns, the entire right, title and interest throughout the world in our invention in A Substance Delivery Apparatus And A Method Of Delivering A Therapeutic Substance To An Anatomical Passageway			
For which we filed a United States Patent Application on December 30, 1999, and now has Serial No. 199475,727, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from us; we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, their successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and we request the Commissioner of Patents and Trademarks to issue all patents granted for said invention to the above-named assignee, its successors and assigns.			
Executed this day of	h	Pinaki Ray	
		Pinaki Ray	
State of Calf. ss. County of Santa Clara ss. On Mar. 2000 before mappeared Phoak! Ray the basis of satisfactory evidence to be the personand acknowledged to me that he/she/they executes the instrument the pexecuted the instrument.	on(s) whose name(her/their authorized capacity(ies), and that by	
	WITNESS	my hand and official seal.	
Contacted Assumer and	SIGNATU	THO TE LENGTH OF NOTARY	

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PATENT REEL: 010720 FRAME: 0273

Attorney Docket No.: M-7719 US

Executed this 1 day of March	, 2000. ——————————————————————————————————		
	Vinayak D. Bhat		
State of Calif			
County of Santa Clara			
on March 1, 200c before me, Christina Tinger, personally appeared Vinovat D. Bhot personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is(are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.			
fourth or in	WITNESS my hand and official seal.		
	CIMITATION SIGNATURE OF NOTARY		
Executed this 1 day of March	, 2000.		
	Daryush Mirraee		
State of Calif			
on March 1, 2006 before me, Christina D Kinsey personally appeared Dryush Mirzaee person(s) whose name(s) is(are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.			
	WITNESS my hand and official seal.		
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- 2 -

PATENT
RECORDED: 03/13/2000 REEL: 010720 FRAME: 0274