Form PTO-1595	06-06-200		
(Rev. 10/02)		EET U.S. DEPARTMENT OF CON U.S. Patent and Trademark Off	
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	of Patent and Tradema	arks: Please record the attached documents or copy 2. Name and address of receiving party(ies	
1. Name of conveying party(ies): Michael HECKMEIER	5.27.03	2. Name and address of receiving party(ies	" P
Brigitte SCHULER	Jery		
Izumi SAITO Volker REIFFENR VTH		Name: MERCK PATENT GMBH	S.
Georg LUESSEM		Internal Address:	4
Christian HOCK			104
Additional name(s) of conveying party(ies) att	ached? 🗌 Yes 🖾 No		Ċ
3. Nature of Conveyance:		Street Address: Frankfurter Strasse 25	: <b>0</b>
🛛 Assignment 🗌	Merger	Street Audress. Frankfuller Strasse 25	,0
Security Agreement	Change of Name	City: Darmstadt State: GERMANY Zi	<b>p:64</b> 2
Other			
Execution Date: 04/23/2003			
		No additional names(s) or address(es) attached 🔲 Yes 🗌	] No
5. Name and address of party to whom c concerning document should be maile		6. Total number of applications and patents in7. Total fee (37CFR 3.41)\$40	
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PATENT REEL: 014129 FRAME: 0147

## ASSIGNMENT

ATTY. DOCKET NO.:

WHEREAS the below named inventor (if only one inventor is named below) or inventors (if plural inventors are named below) hereinafter referred to as the ASSIGNOR invented a certain improvement(s) relating to

for which an application for Letters Patent to be filed in the United States Patent and Trademark Office was executed on even date.

for which U.S. Application Serial No. for Letters Patent was filed in the U.S. Patent and Trademark Office on

for which an International Application was filed on

as

, designating the United States.

AND WHEREAS

MERCK PATENT GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG Darmstadt, Germany

hereinafter referred to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and application(s), including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, reexaminations and extensions thereof.

NOW, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application(s), including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, and in and to any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or to accrue with respect to the filing or securing of patents in the United States and/or any countries foreign thereto concerning said invention, SAID ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and application, including any and all earlier priority rights (U.S. and foreign),divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reexaminations and extensions thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, reexaminations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal representatives, in as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and enjoyed the same, if the assignment had not been made.

AND ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States and foreign countries for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to execute any other papers that may be needed in connection with filing said applications and securing Letters Patents thereon.

AND ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on said application, and on any and all divisions and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.

The undersigned hereby grant(s) the law firm of Millen, White, Zelano & Branigan, P.C. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

## IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR

201 FULL NAME OF SOLE OR FIRST NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
		0.0
Michael HECKMEIER	about Hearture	23 04.03
202 FULL NAME OF SECOND JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Brigitte SCHULER	Drijeke Schulr	23.04.03
203 FULL NAME OF THIRD JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Izumi SAITO	f. Saico	23.04.03
204 FULL NAME OF FOURTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Volker REIFFENRATH	Velkor Restranz	23.04.03
205 FULL NAME OF FIFTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Georg LÜSSEM	Jong time	23.04.03
206 FULL NAME OF SIXTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Christian HOCK	Garda	23 04.03
207 FULL NAME OF SEVENTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
208 FULL NAME OF EIGHTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
209 FULL NAME OF NINTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
210 FULL NAME OF TENTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE

PATENT REEL: 014129 FRAME: 0148

**RECORDED: 05/27/2003**