08-14-2001 FORM PTO-1619A Department of Commerce Expires 06/30/99 ent and Trademark Office OMB 0651-0027 **PATENT** 101811637 TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies). Submission Type Conveyance Type New Security Agreement Resubmission (Non-Recordation) License Change of Name Document ID # Correction of PTO Error Other Reel# Frame U.S. Government (For Use ONLY by U.S. Government Agencies) **Corrective Document** Reel# Frame Departmental File ☐ Secret File Conveying Party(ies) Mark if additional names of conveying parties attached **Execution Date** Year Month Day Name (line 1) 06 2001 26 HEIDER Name (line 2) Second Party **Execution Date** Month Day Year Name (line 1) Udo 2001 06 26 Name (line 2) HEIDER Mark if additional names of receiving parties attached Receiving Party MERCK PATENT Gesellschaft 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. mit beschraenkter Haftung an appointment of a domestic representative is attached. Address (line 1) Frankfurter Strasse 250 (Designation must be a separate document from Address (line 2) Assignment.) GERMANY Address (line 3) DARMSTADT 64293 State/Country Zip Code **Domestic Representative Name and Address** Enter for the first Receiving Party only Millen, White, Zelano & Branigan, P.C. Address (line 1) 2200 Clarendon Boulevard Suite 1400 Address (line 2) Arlington, VA 22201 Address (line 3) Address (line 4) FOR OFFICE USE ONLY Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS. 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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Name	Millen, White, Zeland	& Branigan, P.C.				
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Address (line 3)	Arlington, VA 22201					
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James E. Ruland		Thellian puller	August 9, 2001			
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Enter additional Con	oveying Parties	Execution Date Month Day Year				
Name (line 1)	Natascha	06 26 2001				
, ,						
Name (line 2)	LOTZ					
` ' <u>L</u>		Execution Date				
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Name (line 1)	Matthias	06 26 2001				
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Name (line 2)	ROTHENBURGER	Execution Date				
		Month Day Year				
Name (line 1)		Thomas Day Foar				
ranie (iiie i)						
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Patent	Application Number(s) Patent Nu	mber(s)				
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ASSIGNMENT

ATTY, DOCKET NO.:

AND WHEREAS

MERCK PATENTGESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG

Darmstadt, Germany

hereinafter referred to as the ASSIGNEE, is desirous of acquaring the entire right, title, and interest in and to said invention and application, including any and all 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 representives, the entire and exclusive right, title and interest in and to said invention and application, 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 priority and/or conventions 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, SAID ASSIGNEE its assigns and legal representatives to have, hold, exercise, and enjoy said invention and application, including any and all divisions and continuations thereof, and any and all Letter Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, with all the rights, powers, privilegs 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 extension thereof, for the use and benefit of ASSIGNEE and its assigns and legal representatives, in as simple and benefical 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 executed 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 executed 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 THEREOF this assignment os executed by ASSIGNOR

201 FULL NAME OF SOLE INVENTOR OF FIRST NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
Lilia Heider	Heider Lilia	[1.4] COU.
202 FULL NAME OF SECOND JOINT INVENTOR	INVENTOR'S SIGNATURE	2_6. JUN. 2001
Udo Heider	ldo for lo	, 2_6. JUN. 2001
203 FULL NAME OF THIRD JOINT INVENTOR	INVENTOR'S AIGNATURE	DATE
Natascha Lotz	Hodoscha do Rt	, 2.6. JUN. 2001
204 FULL NAME OF FOURTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Matthias Rothenburger	Mathia Rukasun	1 200
205 FULL NAME OF FIFTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
206 FULL NAME OF SIXTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
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 NINETH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
210 FULL NAME OF TENTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
211 FULL NAME OF ELEVENTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
212 FULL NAME OF TWELFTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
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