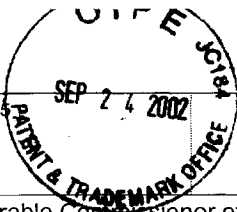


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al documents or copy thereof.

1. Name of conveying party(ies):
Aventis Research & Technologies GmbH & Co. KG
Additional name(s) of conveying party(ies) attached?
☐ Yes ☒ No

3. Nature of conveyance:
☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name

Execution Date: March 8, 2002

2. Name and address of receiving party:

Name: Nanogen Recognomics GmbHInternal Address: 9-24-02

City: _____ State: _____ Zip: _____

Street Address: Industrial Park Höechst, Building G 830City: Frankfurt am Main State: Germany Zip: D-65926Additional name(s) & address(es) attached? ☐ Yes ☒ No

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): see attached list

B. Patent No(s): _____

Additional numbers attached? ☒ Yes ☐ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: John KapposInternal Address: O'MELVENY & MYERS LLP
114 Pacifica, Suite 100
Irvine, California 92618-33186. Total number of applications and patents involved: Ten7. Total fee (37 CFR 3.41): \$ 40.00☒ Enclosed☒ Charge this Deposit Account if any additional fee is required8. Deposit Account Number: 50-0639

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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.

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Date: September 19, 2002Total number of pages including cover sheet: 3

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IR1:497771.1

PATENT
REEL: 013331 FRAME: 0971

514485-1001
PATENT

**Patent Applications to be Assigned from Aventis Research & Technologies
GmbH & Co. KG to Nanogen Recognomics GmbH**

| Patent Appln.No. | Filing Date |
|------------------|------------------|
| 09/319,678 | August 16, 1999 |
| 09/509,051 | June 8, 2000 |
| 09/509,040 | August 3, 2000 |
| 09/509,058 | July 27, 2000 |
| 09/509,010 | July 10, 2000 |
| 09/509,039 | July 11, 2000 |
| 09/509,011 | July 11, 2000 |
| 09/647,829 | January 18, 2001 |
| 09/762,977 | April 19, 2001 |
| 09/868,824 | June 21, 2001 |

51044233 DOC

PATENT
REEL: 013331 FRAME: 0972

514485-1001
PATENT

ASSIGNMENT

Whereas, Aventis Research & Technologies GmbH & Co. KG, 65926 Frankfurt am Main, Germany (hereinafter referred to as Assignor) is the current assignee and owner of the attached list of patent applications.

Whereas Nanogen Recognomics GmbH, a corporation of the Federal Republic of Germany, whose address is, Industriepark Hoechst, 65926 Frankfurt am Main, Germany, (hereinafter referred to as "Assignee") is desirous of securing the entire right, title, and interest in and to the inventions in the United States relating to the attached list of patent applications;

NOW THEREFORE, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, Assignor has assigned to Assignee, its lawful successors and assigns, the entire right, title and interest to the attached list of patent applications and all reissues therefor, and all rights to claim priority on the basis of such patents, and all applications for Letters Patent which may hereafter be or have been filed related to the attached list of patent applications in the United States, and all Letters Patent which may be granted on these inventions in the United States, and all extensions, renewals, and reissues therefor;

AND, Assignor HEREBY covenants that Assignor has the full right to convey the interest assigned by the Assignment, and Assignor will, without further consideration, communicate with Assignee, its successors and assigns, any fact known to Assignor about the attached list of patent applications, and testify in any legal proceeding, sign all lawful when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the titles to these inventions in Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for these inventions in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

The effective date of this assignment is March 8, 2002

Aventis Research & Technologies GmbH & Co. KG

Hildebrand
Name: Hildebrand
Title: authorized signatory

Reike
Name: Reike
Title: authorized agent

Date:

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