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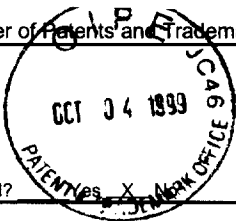
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Yuan Liu
Hironobu Yamamoto
Akihiro Tagaya

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Execution Date: 04/22/99; 03/16/99; 03/26/99

4. Application number (s) or patent number (s): Serial No. 09/269,433 (PCT/EP97/05361)

09/269433

If this document is being filed together with a executed application, the execution date of the application is: 04/22/99; 03/16/99; 03/26/99

A. Patent Application No. Additional numbers attached? ___ Yes X No

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

Name: Richard M. Beck
Internal Address: CONNOLLY BOVE LODGE & HUTZ LLP
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6. Total Number of applications and patents involved: (1)

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A S S I G N M E N T

For valuable consideration, the receipt and adequacy of which is hereby acknowledged,
I/we

- 1) Dr. Yuan LIU, 534 Mapletree Drive, Knoxville, TN 37922, USA
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Citizenship: 1) Chinese, 2) + 3) Japanese

hereby sell, assign, and transfer unto Aventis Research & Technologies GmbH & Co KG

a corporation organized under the laws of Germany
located at 65926 Frankfurt, Germany,

the entire right, title and interest in and to my/our application for Letters Patent of
the United States, executed concurrently herewith /

Ser.-No.:

filed:

entitled: **Optical sensor for detecting chemical substances dissolved or dispersed in water**

and my/our entire right, title, and interest in and to all my/our inventions disclosed in said application for Letters Patent, and in and to all divisional or continuation applications that may be filed for United States Letters Patent for any of said inventions, and in and to all patents that may be granted on the foregoing applications, and I/we hereby agree, whenever requested, to communicate to said assignee, its successors and assigns, any facts known to me/us respecting said inventions, to testify in any legal proceeding, and to execute all applications or papers necessary to obtain and maintain proper patent protection on said inventions in the United States.

Inventor(s):

1st: Yuan Liu

Date: April 22, 1999

2nd: Hironobu Yamamoto

Date: March 16, 1999

3rd: Akihiro Tagaya

Date: March 26, 1999