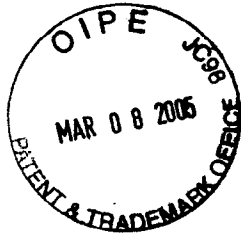


To the Honorable Director of Patent

## 1. Name of Conveying party(ies):

AKARSU, Murat  
ARPAC, Ertugrul  
SCHMIDT, HelmutAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Execution Date: February 1, 2005

## 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)

11/030,172

## B. Patent No.(s)

Additional numbers attached: ☐ Yes ☒ No

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

Name: Neil F. Greenblum

Internal Address: P26353

Street Address: GREENBLUM &amp; BERNSTEIN, P.L.C.

1950 Roland Clarke Place

City: Reston State: VA ZIP: 20191

6. Total number of applications and patents involved: 1

## 7. Total Fee (37CFR 3.41)

\$40.00

☒ Enclosed☐ Authorized to be charged to deposit account

## 8. Deposit account number:

19-0089

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

## 9. 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.

Neil F. Greenblum, Reg. No. 28,394

Name of Person Signing

Signature

Date

Heribert F. Muensterer

Reg. No. 50,417

Total number of pages including cover sheet, attachments and document: 5

Mail documents to be recorded with required cover sheet information to:

 Director of the United States Patent and Trademark Office, Mail Stop Assignments Recordation Services  
 U.S. Patent and Trademark Office  
 Customer Service Window  
 Randolph Building  
 401 Dulany Street  
 Alexandria, VA 22314

03/10/2005 DBYRNE 00000060 11030172

01 FC:8021

40.00 OP

ASSIGNMENT

WHEREAS, **Murat AKARSU**, a citizen of Turkey, whose post office address is Dudweilerstrasse 93, App. D 318; D- 66111 Saarbruecken, Germany; **Ertugrul ARPAC**, a citizen of Turkey, whose post office address is Akdeniz Ueniversitesi, Fen. Edebiyat Fakueltesi, 07200 Antalya, Turkey and **Helmut SCHMIDT**, a citizen of Germany, whose post office address is Im Koenigsfeld 29, D-66130 Saarbruecken-Guedingen, Germany, hereinafter referred to as the ASSIGNORS, have invented a certain improvement relating to

**SUBSTRATES COMPRISING A PHOTOCATALYTIC TiO<sub>2</sub> LAYER**

for which they have jointly executed an application for Letters Patent for the United States which was filed in the United States Patent and Trademark Office on January 7, 2005 and was awarded Application No. 11/030,172.

AND WHEREAS, **INSTITUT FUER NEUE MATERIALIEN GEMEINNUETZIGE GMBH**, a corporation organized and existing under the laws of Germany, whose post-office address is Im Stadtwald Gebaeude 43, D-66123 Saarbruecken, Germany, hereinafter known as the ASSIGNEE, is desirous of acquiring the entire right, title and interest for the United States 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, and prolongations thereof.

NOW, THIS WITNESSETH that for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt whereof is hereby acknowledged, said ASSIGNORS hereby assign, sell and transfer to said ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application, for the United States including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, said ASSIGNEE and its assigns and legal representatives to have, hold, exercise and enjoy the 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 and prolongations thereof, with all the rights, powers, privileges, and advantages in any ways arising from or pertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, and prolongations thereof, for the use and benefit of said ASSIGNEE and its assigns and legal representatives in as ample and beneficial a manner to all intents and purposes as the said ASSIGNORS might or could have held and enjoyed the same, if this assignment had not been made.

AND said ASSIGNORS hereby agree to execute all papers necessary to file applications in the United States for said invention and to assign the same to said ASSIGNEE, or any assignee acquiring title to said invention, and to execute any other papers that may be needed in connection with filing said application and securing Letters Patent thereon.

AND said ASSIGNORS authorize and request the Commissioner of Patents to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said ASSIGNEE, its assigns and legal representatives, in accordance herewith.

IN TESTIMONY WHEREOF, this assignment is executed by **Murat AKARSU**, this 01 day of February 2005, at (address) INM.

First Witness:

Susanna Klein  
(Name)

01.02.2005  
(Date)

  
**Murat AKARSU**

Second Witness:

Nicole Rutter  
(Name)

01.02.2005  
(Date)

IN TESTIMONY WHEREOF, this assignment is executed by **Ertugrul ARPAC**, this 01 day  
of February 2005, at (address) INM.

First Witness:

Rusenna Klein  
(Name)

01.02.2005  
(Date)



**Ertugrul ARPAC**

Second Witness:

Nicole Miller  
(Name)

01.02.2005  
(Date)

IN TESTIMONY WHEREOF, this assignment is executed by **Helmut SCHMIDT**, this 01  
day of February 2005, at (address) INA.

First Witness:

Susanna Klein  
(Name)

01.02.2005  
(Date)

  
**Helmut SCHMIDT**

Second Witness:

Nicole Kettler  
(Name)

01.02.2005  
(Date)