
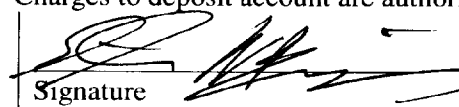


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18 Rec'd PCT/PTO 2 7 APR 2001

Docket No. 54625USA6A.007

<b>PATENT ASSIGNMENT</b>			<b>EET</b>
To: The Commissioner for Patents Please record the attached original document		101718108	
<b>Submission Type:</b> <input checked="" type="checkbox"/> New <input type="checkbox"/> Resubmission (Non-Recordation): Document ID# <input type="checkbox"/> Correction of PTO Error: Reel # _____ Frame # <input type="checkbox"/> Corrective Document: Reel # _____ Frame #		<b>Conveyance Type:</b> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Other:	
<b>Name of conveying party(ies)</b> Imamura, Kengo Matsumoto, Kenji Udagawa, Atsushi Irie, Shinichi		<b>Execution Date (Month/Day/Year)</b> 02/22/01 02/23/01 02/22/01 02/22/01	
<b>Name and address of receiving party(ies):</b> 3M Innovative Properties Company P.O. Box 33427 St. Paul, Minnesota 55133-3427			
Additional names of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
<b>Application number or patent number:</b> <input checked="" type="checkbox"/> This document is being filed with a new patent application on <u>April 25, 2001</u> <input type="checkbox"/> This document is to be recorded against the following patent application or patent:			
<b>Patent Cooperation Treaty (PCT):</b> Enter PCT application number <u>only</u> if a U.S. Application Number has <u>not</u> been assigned: <u>PCT/US99/25115</u>			
<b>Name and address of party to whom correspondence concerning document should be mailed:</b> Name: Stephen W. Buckingham, Phone Number: 651-733-3379 Office of Intellectual Property Counsel 3M Innovative Properties Company P.O. Box 33427 St. Paul, Minnesota 55133-3427			
<b>Number of Properties:</b>		Enter the total number of properties involved	
		1	
<b>Fee Amount:</b>		Fee Amount for Properties Listed (37 CFR 3.41)	
		X \$40.00	
<b>Method of Payment:</b>		<input checked="" type="checkbox"/> Charge to Deposit Account No. <u>13-3723</u> = \$40.00	
05/01/2001 MNGUYEN 00000130 133723 09000000 02 FC:581      40.00 CH		Authorization to charge additional fees: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <b>DO NOT USE THIS SPACE</b>	
<b>Statement and signature</b> 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. Charges to deposit account are authorized, as indicated herein.			
Stephen W. Buckingham Printed Name of Attorney/Agent Registration No. 30,035		 Signature April 25, 2001 Date	
<b>Pages:</b>			
Total number of pages of the attached conveyance document including any attachments		2	

Mail documents to be recorded with required cover sheet information to:  
 Commissioner for Patents, Box Assignments, Washington, DC 20231

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**PATENT**  
**REEL: 011789 FRAME: 0596**

ASSIGNMENT

Whereas We, the below named inventors, with residences and citizenships as indicated below; have made an invention in

**LIGHT FIBERS AND METHODS OF PRODUCING THE SAME**

and have executed an application for Letters Patent of the United States of America based thereon; which application is identified as PCT International Patent Application Serial No. PCT/US99/25115 filed October 26, 1999, bearing Attorney Docket Number 54625PCT4A.006;

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, we have individually and jointly agreed to assign and transfer and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly owned subsidiary of MINNESOTA MINING AND MANUFACTURING COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in the said invention made by us or any of us or made jointly with others (provided any such improvement is made during, or within one year after the termination of, the employment by Minnesota Mining and Manufacturing Company and any of its existing or future subsidiaries of whichever of us, solely or jointly with one or more others, has made the same), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon the said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by us or any of us had this assignment and transfer not been made,

We do further agree for ourselves and for our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as we lawfully may, that may be deemed necessary by the said Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries;

And we do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to the said 3M Innovative Properties Company, as the assignee of the entire right, title, and interest therein.

Hiroshi Agukawa  
Witness

Yuji Hiroshige  
Witness

Akira Yamashita  
Witness

Takayuki Hanai  
Witness

Tatsuya Nakamura  
Witness

Wataru Sato  
Witness

Kengo Imamura Feb. 22, 2001  
Date  
Residence: Sagamihara-city, Kanagawa pref., 229,  
Japan  
Citizenship: Japan

Kenji Matsumoto Feb. 23, 2001  
Date  
Residence: Kawasaki-city, Kanagawa pref., 215, Japan  
Citizenship: Japan

Atsushi Udagawa 2/22/01  
Date  
Residence: Sagamihara-city, Kanagawa pref., 229,  
Japan  
Citizenship: Japan

J. Zolner

Witness

M. Iwasawa

Witness

Shinichi Irie 2/22/01

Shinichi Irie

Date

Residence: Yamato-city, Kanagawa-pref., Japan

Citizenship: Japan

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09/830510

JC18 Rec'd PCT/PTO 27 APR 2001

Docket No. 54625USA6A.007

# PATENT ASSIGNMENT RECORDATION COVER SHEET

To: The Commissioner for Patents

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## Submission Type:

- ☒ New  
☐ Resubmission (Non-Recordation):  
 Document ID#  
☐ Correction of PTO Error: Reel # \_\_\_\_\_ Frame #  
☐ Corrective Document: Reel # \_\_\_\_\_ Frame #

## Conveyance Type:

- ☒ Assignment  
☐ Other:

## Name of conveying party(ies)

Execution Date  
(Month/Day/Year)

Imamura, Kengo 02/22/01  
 Matsumoto, Kenji 02/23/01  
 Udagawa, Atsushi 02/22/01  
 Irie, Shinichi 02/22/01

## Name and address of receiving party(ies):

3M Innovative Properties Company  
 P.O. Box 33427  
 St. Paul, Minnesota 55133-3427

Additional names of conveying party(ies) attached?

- ☐ Yes ☒ No

## Application number or patent number:

- ☒ This document is being filed with a new patent application on April 25, 2001  
☐ This document is to be recorded against the following patent application or patent:

## Patent Cooperation Treaty (PCT):

Enter PCT application number only if a U.S. Application Number has not been assigned: PCT/US99/25115

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

Name: Stephen W. Buckingham, Phone Number: 651-733-3379  
 Office of Intellectual Property Counsel  
 3M Innovative Properties Company  
 P.O. Box 33427  
 St. Paul, Minnesota 55133-3427

## Number of Properties:

Enter the total number of properties involved

1

## Fee Amount:

Fee Amount for Properties Listed (37 CFR 3.41)

X \$40.00

## Method of Payment:

- ☒ Charge to Deposit Account No. 13-3723  
 Authorization to charge additional fees: ☒ Yes ☐ No

= \$40.00

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## 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. Charges to deposit account are authorized, as indicated herein.

Stephen W. Buckingham  
 Printed Name of Attorney/Agent  
 Registration No. 30,035

Signature

April 25, 2001  
 Date

## Pages:

Total number of pages of the attached conveyance document including any attachments

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RECORDED: 04/27/2001

PATENT  
 REEL: 011789 FRAME: 0599