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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Name of conveying party(ies):<br/>Hisamichi YANAI, Yoshihiro TOKUDA, Jin TOKUYASU,<br/>Kimiko MIYATA, Naoki FUJIWARA, Takeshi KUSUDOU</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>3. Nature of Conveyance:<br/> <input checked="" type="checkbox"/> Assignment                      <input type="checkbox"/> Merger<br/> <input type="checkbox"/> Security Agreement              <input type="checkbox"/> Change of Name<br/> <input type="checkbox"/> Other</p> <p>Execution Date: August 25, 25; September 1;<br/>August 25, 26, 25, 2004</p> | <p>2. Name and address of receiving party(ies):<br/>Name: Kuraray Co., Ltd.<br/>Address: 1621, Sakazu, Kurashiki-shi,<br/>Okayama 710-8622, Japan</p> <p>Additional name(s) and address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

4. Application number(s) or patent number(s):

This document is being filed together with a new application

|                                                    |                         |
|----------------------------------------------------|-------------------------|
| <p>A. Patent Application No.(s)<br/>10/937,780</p> | <p>B. Patent No.(s)</p> |
|----------------------------------------------------|-------------------------|

Additional numbers attached?  Yes  No

|                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Customer Number<br/><b>22850</b><br/>Tel. (703) 413-3000<br/>Fax. (703) 413-2220</p> | <p>6. Total applications and patents involved: 1</p> <p>7. Total fee (37 CFR 3.41): \$40.00<br/> <input checked="" type="checkbox"/> Enclosed<br/> <input type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number: 15-0030<br/>(Attach duplicate copy of this page if paying by deposit account)</p> |
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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.*

|                                         |                                                |                                         |
|-----------------------------------------|------------------------------------------------|-----------------------------------------|
| <p>_____<br/>Name of Person Signing</p> | <p><i>Corwin Paul Umbach</i><br/>Signature</p> | <p><i>December 3, 2004</i><br/>Date</p> |
|-----------------------------------------|------------------------------------------------|-----------------------------------------|

Registration Number: **Corwin P. Umbach, Ph.D.  
Registration No. 40,211**

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17:50:21 40.00 00

**PATENT  
REEL: 016044 FRAME: 0718**

# Assignment of Application

Page 1 of 2

WHEREAS, I (WE) Hisamichi YANAI,  
c/o KURARAY CO., LTD., 1621, Sakazu, Kurashiki-shi, Okayama 710-8622 Japan  
Yoshihiro TOKUDA,  
c/o KURARAY CO., LTD., 1621, Sakazu, Kurashiki-shi, Okayama 710-8622 Japan  
Jin TOKUYASU,  
c/o KURARAY CO., LTD., 2045-1, Sakazu, Kurashiki-shi, Okayama 710-8691 Japan  
Kimiko MIYATA,  
c/o KURARAY CO., LTD., 1621, Sakazu, Kurashiki-shi, Okayama 710-8622 Japan  
Naoki FUJIWARA, c/o KURARAY CO., LTD.,  
12-39, Umeda 1-chome, Kita-ku, Osaka-shi, Osaka 530-8611 Japan  
Takeshi KUSUDOU  
c/o KURARAY CO., LTD., 1621, Sakazu, Kurashiki-shi, Okayama 710-8622 Japan

INSERT NAMES  
AND RESIDENCE  
ADDRESS OF  
THE INVENTORS:

, respectively,

have invented certain new and useful improvements in: POLYVINYL ALCOHOL BASED POLYMER AND  
METHOD OF MANUFACTURING THE SAME

INSERT TITLE  
OF INVENTION:

for which an application for Letters Patent was executed on \_\_\_\_\_  
(Application No. 10/937,780 , filed September 10, 2004 ), and

INSERT DATE IN-  
VENTORS SIGNED  
DECLARATION:

WHEREAS, KURARAY CO., LTD.

INSERT NAME  
AND ADDRESS OF  
COMPANY OR  
OTHER ASSIGNEE

(hereinafter referred to as "ASSIGNEE") having a place of business at: \_\_\_\_\_  
1621, Sakazu, Kurashiki-shi, Okayama 710-8622 Japan

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

03/03

PATENT  
REEL: 016044 FRAME: 0719

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of 1940 Duke Street Alexandria, Virginia 22314 the power to insert on this assignment any further identification, including the application number and filing date, 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.

Date: August 25, 2004

Hisamichi Yanai  
(Signature of Inventor) Hisamichi YANAI

Date: August 25, 2004

Yoshihiro Tokuda  
(Signature of Inventor) Yoshihiro TOKUDA

Date: September 1, 2004

Jin Tokuyasu  
(Signature of Inventor) Jin TOKUYASU

Date: August 25, 2004

Kimiko Miyata  
(Signature of Inventor) Kimiko MIYATA

Date: August 26, 2004

Naoki Fujiwara  
(Signature of Inventor) Naoki FUJIWARA

Date: August 25, 2004

Takeshi Kusudou  
(Signature of Inventor) Takeshi KUSUDOU

Date: \_\_\_\_\_

\_\_\_\_\_  
(Signature of Inventor)

Date: \_\_\_\_\_

\_\_\_\_\_  
(Signature of Inventor)

**OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.**  
ATTORNEYS AT LAW  
1940 DUKE STREET  
ALEXANDRIA, VIRGINIA 22314

03/03