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To the Director, U.S. Patent and Trademark Office

attached original documents or copy thereof.

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<p>1. Name of conveying party(ies), or numbers for multiple parties</p> <p>(1) Hideki GODA (2) Takayuki FUJIWARA (3) Takeshi TAKEUCHI</p> <p>Additional name(s) of conveying party(ies) attached?</p> <p>( ) Yes (X) No</p>	<p>Name: ARAKAWA CHEMICAL INDUSTRIES, LTD.</p> <p>Address: 3-7, Hiranomachi 1-chome, Chuo-ku, Osaka-shi, Osaka 541-0046 Japan</p> <p>Additional name(s) of receiving party(ies) attached?</p> <p>( ) Yes (X) No</p>
<p>3. Nature of conveyance:</p> <p>(X) Assignment ( ) Security Agreement ( ) Merger ( ) Change of Name ( ) Other:</p> <p>Execution Date: (List as in section 1 if multiple signatures) All executed on March 11, 2004</p>	<p>4. Application number(s) or Patent number(s):</p> <p>(X) Application(s) filed herewith Execution Date(s): March 11, 2004</p> <p>Additional numbers attached?</p> <p>( ) Yes (X) No</p>
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: Daniel E. Altman KNOBBE MARTENS OLSON &amp; BEAR LLP 2040 Main Street Fourteenth Floor Irvine, CA 92614 Customer No. 20,995 Return Fax: (949) 760-9502 Attorney's Docket No.: SAEG121.002APC</p>	<p>6. Total number of applications and patents involved: 1</p> <p>7. Total fee (37 CFR 1.21(h)): \$40 (X) Enclosed</p> <p>8. Deposit account number: 11-1410 Please charge this account for any additional fees which may be required, or credit any overpayment to this account.</p>

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.

Katsuhiro Arai  
Name of Person Signing

Signature

April 15, 2004  
Date

43,315  
Registration No.

Total number of pages including cover sheet, attachments and document: 3

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PATENT REEL: 015672 FRAME: 0098

ASSIGNMENT

WHEREAS, I/WE (1) GODA Hideki,

a Japanese citizen, residing at c/o Research & Development Center of ARAKAWA CHEMICAL INDUSTRIES, LTD., 1-9, Tsurumi 1-chome, Tsurumi-ku, Osaka-shi, Osaka 538-0053, Japan

(2) FUJIWARA Takayuki,

a Japanese citizen, residing at c/o Research & Development Center of ARAKAWA CHEMICAL INDUSTRIES, LTD., 1-9, Tsurumi 1-chome, Tsurumi-ku, Osaka-shi, Osaka 538-0053, Japan

(3) TAKEUCHI Takeshi,

a Japanese citizen, residing at c/o Research & Development Center of ARAKAWA CHEMICAL INDUSTRIES, LTD., 1-9, Tsurumi 1-chome, Tsurumi-ku, Osaka-shi, Osaka 538-0053, Japan

hereinafter referred to as Assignor (collectively if more than one inventor is listed above), have invented certain new and useful improvements in POLYIMIDE-METAL LAMINATE AND POLYAMIDEIMIDE-METAL

LAMINATE,

the specification of which:

- (a)  is attached hereto; or
- (b)  was filed on \_\_\_\_\_ as Application No. \_\_\_\_\_ or Express Mail No., as Application No. not yet known \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable); or
- (c)  was described and claimed in PCT International Application No. PCT/JP02/11333 filed on October 31, 2002 and as amended under PCT Article 19 on \_\_\_\_\_ (if any) and/or under PCT Article 34 on \_\_\_\_\_ (if any).

AND WHEREAS, ARAKAWA CHEMICAL INDUSTRIES, LTD.,

with its principal place of business at 3-7, Hiranomachi 1-chome, Chuo-ku, Osaka-shi, Osaka 541-0046, Japan, (hereinafter referred to as Assignee) desires to acquire the entire right, title, and interest in and to the said improvements with respect to the United States of America, its territories and possessions.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby acknowledges that it has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title, and interest in the United States of America, and its territories and possessions in, to and under said improvements, and any Patent Applications in the United States of America and all divisions, renewals and continuations thereof, and all Patents of the United States of America which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions; and Assignor hereby authorizes and requests the Commissioner of Patents of the United States of America to issue all Patents for

said improvements to Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR HEREBY covenants and agrees that it will communicate to Assignee, its successors, legal representatives and assigns, any facts known to it respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in the United States of America.

IN TESTIMONY WHEREOF, Assignor intending to be legally bound has hereunto affixed its signature.

This 11th day of March, 2004

*Hideki Goda*  
Signature of GODA Hideki

This 11th day of March, 2004

*Takayuki Fujiwara*  
Signature of FUJIWARA Takayuki

This 11th day of March, 2004

*Takeshi Takeuchi*  
Signature of TAKEUCHI Takeshi