

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Toshiya HAMADA</td> <td>03/13/2012</td> </tr> <tr> <td>Sakiko HAMADA</td> <td>03/13/2012</td> </tr> </tbody> </table>		Name	Execution Date	Toshiya HAMADA	03/13/2012	Sakiko HAMADA	03/13/2012
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Toshiya HAMADA	03/13/2012						
Sakiko HAMADA	03/13/2012						
RECEIVING PARTY DATA							
Name:	DAIHACHI CHEMICAL INDUSTRY CO., LTD.						
Street Address:	8-13, Hiranomachi 1-chome, Chuo-ku, Osaka-shi						
City:	Osaka						
State/Country:	JAPAN						
Postal Code:	5410046						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13497955</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13497955		
Property Type	Number						
Application Number:	13497955						
CORRESPONDENCE DATA							
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Address Line 4:	Reston, VIRGINIA 20191						
ATTORNEY DOCKET NUMBER:	P41750						
NAME OF SUBMITTER:	Sean Myers-Payne						
Total Attachments: 2 source=P41750_Assign#page1.tif source=P41750_Assign#page2.tif							

OP \$40.00 13497955

ASSIGNMENT

WHEREAS,

Toshiya HAMADA, a citizen of Japan, whose post office address is c/o DAIHACHI CHEMICAL INDUSTRY CO., LTD., 8-13, Hiranomachi 1-chome, Chuo-ku, Osaka-shi Osaka 5410046 Japan,

Sakiko HAMADA, a citizen of Japan, whose post office address is c/o DAIHACHI CHEMICAL INDUSTRY CO., LTD., 8-13, Hiranomachi 1-chome, Chuo-ku, Osaka-shi Osaka 5410046 Japan,

hereinafter referred to as the ASSIGNORS, have invented a certain improvement relating to

PROCESSES FOR PRODUCTION OF CYCLIC ALKYLENE PHOSPHOROHALIDITE AND CYCLIC PHOSPHORIC ACID ESTER

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 \* March 23, 2012 \* and was awarded Application No. 13/497,955.

OPTIONAL

\*\*\*If this Assignment is filed after the filing date of the above-identified application, the undersigned hereby authorize and request any one of the attorneys of record in this application including Neil F. Greenblum, Reg. No. 28,394, Bruce H. Bernstein, Reg. No. 29,027, Arnold Turk, Reg. No. 33,094, James L. Rowland, Reg. No. 32,674, Stephen M. Roylance, Reg. No. 31,296, Leslie J. Paperner, Reg. No. 33,329, William Pieprz, Reg. No. 33,630, Robert W. Mueller, Reg. No. 35,043 and William E. Lyddane, Reg. No. 41,568, of the firm Greenblum & Bernstein, P.L.C., whose address is 1950 Roland Clarke Place, Reston, Virginia 20191, to insert here in parenthesis (Application No. 13/497,955, filed March 23, 2012) the filing date and application number of said application when known.\*\*\*

AND WHEREAS, DAIHACHI CHEMICAL INDUSTRY CO., LTD., a corporation organized and existing under the laws of the State of Japan, whose post-office address is 8-13, Hiranomachi 1-chome, Chuo-ku, Osaka-shi Osaka 5410046 Japan, 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 and all rights to sue for past and future infringement thereunder, 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.

(Date) 13. Mar, 2012

*T. Hamada*

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Toshiya HAMADA

(Date) 13, Mar, 2012

*S. Hamada*

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Sakiko HAMADA