

PATENT ASSIGNMENT COVER SHEET

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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>TAICHIRO TOUGE</td> <td>10/01/2013</td> </tr> <tr> <td>TOMOHIKO HAKAMATA</td> <td>10/01/2013</td> </tr> <tr> <td>HIDEKI NARA</td> <td>10/01/2013</td> </tr> </tbody> </table>		Name	Execution Date	TAICHIRO TOUGE	10/01/2013	TOMOHIKO HAKAMATA	10/01/2013	HIDEKI NARA	10/01/2013
Name	Execution Date								
TAICHIRO TOUGE	10/01/2013								
TOMOHIKO HAKAMATA	10/01/2013								
HIDEKI NARA	10/01/2013								
RECEIVING PARTY DATA									
Name:	TAKASAGO INTERNATIONAL CORPORATION								
Street Address:	37-1, KAMATA 5-CHOME								
City:	OTA-KU, TOKYO								
State/Country:	JAPAN								
Postal Code:	1448721								
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>14114268</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14114268				
Property Type	Number								
Application Number:	14114268								
CORRESPONDENCE DATA									
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NAME OF SUBMITTER:	CHRISTOPHER KNIGHT								
Signature:	/Christopher Knight/								

Date:

10/28/2013

Total Attachments: 2

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Assignment

Whereas, I/We, Taichiro TOUGE, Tomohiko HAKAMATA and Hideki NARA of
c/o Corporate Research & Development Division, TAKASAGO INTERNATIONAL
CORPORATION, 4-11, Nishiyawata 1-chome, Hiratsuka City, Kanagawa 2540073 Japan ,
respectively, hereinafter called assignors, have invented certain improvements in
RUTHENIUM-DIAMINE COMPLEX AND METHOD FOR PRODUCING OPTICALLY ACTIVE COMPOUND

and executed an application for Letters Patent of the United States of America therefor on
October 1, 2013 ; and

Whereas, TAKASAGO INTERNATIONAL CORPORATION of 37-1, Kamata
5-chome, Ota-ku, Tokyo 1448721 Japan (assignee), desires to acquire the entire right, title,
and interest in the application and invention, and to any United States patents to be obtained
therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignors, hereby sell, assign and transfer to the above named
assignee, its successors and assigns, the entire right, title and interest in the application and
the invention disclosed therein for the United States of America, including all divisions, and
continuations thereof, and all Letters Patent of the United States that may be granted thereon,
and all reissues thereof, and all countries foreign thereto, including rights of priority under the
International Convention of Paris (1883) as amended, including the right to claim priority
under 35 U.S.C. §119, and we request the Director of the U.S. Patent and Trademark Office
to issue any Letters Patent granted upon the invention set forth in the application to the
assignee, its successors and assigns; and we hereby agree that the assignee may apply for
foreign Letters Patent on the invention and we will execute without further consideration all
papers deemed necessary by the assignee in connection with the United States and foreign
applications when called upon to do so by the assignee.

I/We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100
Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses
(Application number 14/114,268 and Confirmation number 6163 ,
filed October 28, 2013) the application number, confirmation number and
filing date of said application when known.

Date: October 1, 2013 Taichiro Touge
s/Taichiro TOUGE

Date: October 1, 2013 Tomohiko Hakamata
s/Tomohiko HAKAMATA

Date: October 1, 2013 Hideki Nara
s/Hideki NARA

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)