

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

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>Hideyuki NAGAISHI</td> <td>02/21/2012</td> </tr> <tr> <td>Masayuki MIYAZAKI</td> <td>12/14/2012</td> </tr> <tr> <td>Yuichi SHIMAYAMA</td> <td>12/18/2012</td> </tr> </tbody> </table>		Name	Execution Date	Hideyuki NAGAISHI	02/21/2012	Masayuki MIYAZAKI	12/14/2012	Yuichi SHIMAYAMA	12/18/2012
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Hideyuki NAGAISHI	02/21/2012								
Masayuki MIYAZAKI	12/14/2012								
Yuichi SHIMAYAMA	12/18/2012								
RECEIVING PARTY DATA									
Name:	HITACHI CHEMICAL COMPANY, LTD.								
Street Address:	9-2, Marunouchi 1-chome, Chiyoda-ku								
City:	Tokyo								
State/Country:	JAPAN								
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>13765119</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13765119				
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CORRESPONDENCE DATA									
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<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
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NAME OF SUBMITTER:	John R. Mattingly								
Total Attachments: 1 source=8707-Assign#page1.tif									

OP \$40.00 13765119

ASSIGNMENT  
( 譲渡証 )

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to me citizen of Japan by Hitachi Chemical Company, Ltd., a corporation organized under the laws of Japan, located at 9-2, Marunouchi 1-chome, Chiyoda-ku, Tokyo, Japan receipt of which is hereby acknowledged I do hereby sell and assign to said Hitachi Chemical Company, Ltd., its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

**ANTENNA BEAM SCAN MODULE, AND COMMUNICATION APPARATUS USING THE SAME**

invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said Hitachi Chemical Company, Ltd., its successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said Hitachi Chemical Company, Ltd.

Signed on the date(s) indicated aside our signatures:

INVENTOR(S)  
(発明者フルネームサイン)

Date Signed  
(署名日)

1) <u>Hideyuki Nagaiishi</u>	Hideyuki NAGAISHI	<u>12/21/2012</u>
2) <u>Masayuki Miyazaki</u>	Masayuki MIYAZAKI	<u>12/14/2012</u>
3) <u>Yuichi Shimayama</u>	Yuichi SHIMAYAMA	<u>12/18/2012</u>