

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>Takafumi OHISHI</td> <td>01/16/2012</td> </tr> <tr> <td>Noriaki OODACHI</td> <td>01/16/2012</td> </tr> <tr> <td>Shuichi OBAYASHI</td> <td>01/16/2012</td> </tr> </tbody> </table>	Name	Execution Date	Takafumi OHISHI	01/16/2012	Noriaki OODACHI	01/16/2012	Shuichi OBAYASHI	01/16/2012	
Name	Execution Date								
Takafumi OHISHI	01/16/2012								
Noriaki OODACHI	01/16/2012								
Shuichi OBAYASHI	01/16/2012								
RECEIVING PARTY DATA									
Name:	KABUSHIKI KAISHA TOSHIBA								
Street Address:	1-1, Shibaura 1-chome, Minato-ku								
City:	Tokyo								
State/Country:	JAPAN								
Postal Code:	105-8001								
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>13361011</td> </tr> </tbody> </table>	Property Type	Number	Application Number:	13361011					
Property Type	Number								
Application Number:	13361011								
CORRESPONDENCE DATA									
Fax Number:	(703)816-4100								
Phone:	703-816-4000								
Email:	jam@nixonvan.com								
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>									
Correspondent Name:	NIXON & VANDERHYE, PC								
Address Line 1:	901 NORTH GLEBE ROAD, 11TH FLOOR								
Address Line 4:	ARLINGTON, VIRGINIA 22203								
ATTORNEY DOCKET NUMBER:	MJS-4770-42								
NAME OF SUBMITTER:	Michael J. Shea								
Total Attachments: 2 source=ASSIGNMENT#page1.tif source=ASSIGNMENT#page2.tif									

OP \$40.00 13361011

ASSIGNMENT OF PATENT APPLICATION

(Inventors) 1) Takafumi OHISHI of Yokohama-shi, Kanagawa-ken, Japan;
2) Noriaki OODACHI of Kawasaki-shi, Kanagawa-ken, Japan; and
3) Shuichi OBAYASHI of Yokohama-shi, Kanagawa-ken, Japan

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(Assignee) KABUSHIKI KAISHA TOSHIBA
(Address) (of 1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001 Japan
(hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions, and for the country of
(Other Countries) (in the invention, and all application(s) for patent and any Letters Patent which may be granted therefor, known as
(Title) (Case No. -) COMMUNICATION APPARATUS
for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed (on or has already filed in
(U.S. appln. Serial No. , filed on).
The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

Date <u>January 16, 2012</u>	Signature of inventor	(<u>Takafumi Ohishi</u> Takafumi OHISHI
Date <u>January 16, 2012</u>	Signature of inventor	(<u>Noriaki Oodachi</u> Noriaki OODACHI
Date <u>Jan, 16, 2012</u>	Signature of inventor	(<u>Shuichi Obayashi</u> Shuichi OBAYASHI
Date _____	Signature of inventor	(_____
Date _____	Signature of inventor	(_____
Date _____	Signature of inventor	(_____
Date _____	Signature of inventor	(_____
Date _____	Signature of inventor	(_____
Date _____	Signature of inventor	(_____
Date _____	Signature of inventor	(_____