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## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT	
CONVEYING PARTY D	ΑΤΑ			
		Name	Execution Date	
TAKANOBU SUZUKI			03/07/2013	
HIROTAKA ASAKURA			03/07/2013	
MUNEHISA MATSUDA			03/07/2013	
SATOSHI TANAKA			03/07/2013	
RECEIVING PARTY DA	TA			
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State/Country:	JAPAN			
Postal Code:	467-856	1		
Property Type		Number		
	1	5664848		
Application Number:	DATA			
Application Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if	DATA (2 e sent to t provided;	202)824-3001 the e-mail address first; if that is unsu if that is unsuccessful, it will be sent		
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Application Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email:	DATA (2 e sent to a provided; (2 b	202)824-3001 the e-mail address first; if that is unsu if that is unsuccessful, it will be sent 202) 824-3000 wptopat@bannerwitcoff.com, lbahm@ba	via US Mail.	
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Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will b</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	DATA (2 e sent to a provided; (2 b B 1 S V	202)824-3001 the e-mail address first; if that is unsu- if that is unsuccessful, it will be sent 202) 824-3000 wptopat@bannerwitcoff.com, lbahm@ba ANNER & WITCOFF, LTD. 100 13TH ST. NW TE 1200 VASHINGTON, D.C. 20005	via US Mail.	
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Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will b</i> <i>using a fax number, if p</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET NUN NAME OF SUBMITTER:	DATA (2 e sent to a provided; (2 b B 1 S V	202)824-3001 the e-mail address first; if that is unsu- if that is unsuccessful, it will be sent 202) 824-3000 wptopat@bannerwitcoff.com, lbahm@ba ANNER & WITCOFF, LTD. 100 13TH ST. NW TE 1200 VASHINGTON, D.C. 20005 006838.00211 GARY D. FEDOROCHKO	via US Mail.	
Application Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET NUN NAME OF SUBMITTER: SIGNATURE:	DATA (2 e sent to a provided; (2 b B 1 S V	202)824-3001 the e-mail address first; if that is unsu- if that is unsuccessful, it will be sent 202) 824-3000 wptopat@bannerwitcoff.com, lbahm@ba ANNER & WITCOFF, LTD. 100 13TH ST. NW TE 1200 /ASHINGTON, D.C. 20005 006838.00211 GARY D. FEDOROCHKO /Gary D. Fedorochko/	via US Mail.	

## ASSIGNMENT

2012-01	1532US/Cod	le:57UL1H

			(1)	Takanobu SUZUKI (5)
	(1-8)	Insert	(2)	Hirotaka ASAKURA (6)
		Name(s) of inventor(s)	(3)	Munehisa MATSUDA (7)
		ý.:	(4)	Satoshi TANAKA (8)
				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
	(9)	Insert Name of Assignee	(9)	BROTHER KOGYO KABUSHIKI KAISHA
	(10)	Insert Address of Assignee	(10)	15-1 Naashiro-cho, Mizuho-ku, Nagoya-shi, Aichi-kan 467-8561, Japan
				(hareinafter designated as the Assignce) the entire right, the and interest for the United States of America as defined in 25 U.S.C. \$400 in the Investor and in all and interest for the United States of America
	(11)	Insert Identification	(11)	(hereinafter designated as the Assignee) the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the Invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, substitute, and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as COMMUNICATION DEVICE
	(11)		(11)	as defined in 35 U.S.C. §100, in the Invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, substitute, and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as
39 500 5 <sup>8</sup>	(11)	Identification of Invention		as defined in 35 U.S.C. §100, in the Invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, substitute, and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as
99 200 2	(11)	Identification of Invention such as Title, Case Number, or Foreigr		as defined in 35 U.S.C. §100, in the Invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, substitute, and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the Invention known as COMMUNICATION DEVICE
* **	(11) (12)	Identification of Invention such as Title, Case Number, or Foreigr		as defined in 35 U.S.C. §100, in the Invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, substitute, and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as COMMUNICATION DEVICE
*	о <b>н</b>	Identification of Invention such as Title, Case Number, or Foreigr Appfication Numbe Insert Date of Signing of	r I	as defined in 35 U.S.C. §100, in the Invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, substitute, and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as COMMUNICATION DEVICE  (Attorney Docket No. for which the undersigned has (have) executed an application for patent in the United States of America

 The undersigned agree(s) to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignees may deem necessary.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) The undersigned agree(s) to execute all papers and documents and 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.

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patient to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application(s) to the said Assignee, as Assignee of the entite 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 agreements in conflict herewith.

6) The undersigned hereby grant(s) the firm of Banner & Witcoff, LTD 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 and Trademark Office for recordation of this document.

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

Data	Har. 7, 20B	Name of Inventor	Takayabu SUZUKI Takanchu SUZUKI	_ (SEAL)
Date	Mar, 7, 2013	Name of Inventor	Hirotaka ASAKURA Hirotaka ASAKURA	(SEAL)
Date	Mar. 7, 2013	Name of Inventor	Munehisa MATSUDA Munehisa MATSUDA	(SEAL)
Date	Mar. 7, 2013	Name of Inventor	Satoshi TANAKA	_ (SEAL)
Date		Name of Inventor		_ (SEAL)
Date		Name of Inventor		_ (SEAL)
Date		Name of Inventor	PATENT	(SEAL)

**RECORDED: 08/01/2017** 

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