503136757 01/14/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

rsion v1.1 EPAS ID: PAT3183367

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
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TAKESHI MORI	12/11/2014
YOSHIAKI NAGAMURA	12/11/2014

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14579291

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NAME OF SUBMITTER:	CHIKA EDA
SIGNATURE:	/Chika EDA/
DATE SIGNED:	01/14/2015

Total Attachments: 1

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PATENT 503136757 REEL: 034716 FRAME: 0360

		Assignment For	rm 3.0 (Oct. 2008)
Panasonic Ref*: P66596701	Application S	erial No. 14/57	19291
1st Partner Name: A & P		Ref:5690	
US Firm Name*: WLP		11tel	
(* must be filled)	OS FIIII Rei.		
ASSIG	NMENT		
WHEREAS, the undersigned has (have) invented the invention entitled	:		
Box 1 Title of Invention:			
	ECTRONIC DEVICE		
For use when signing Declaration prior to filin	g U.S. patent application (check onl	ly one box below)	
(a) ■ for which an application for U.S. patent has been execute	d by the undersigned conc	urrently herewith, or	
(b)□ for which an application for U.S. patent has been execute (if Declaration & Assignment are signed on the same day, check (a) and make no entry in the blank:	d on the following date(s):_	unment enter the date(s) on which	, OF
(c)□ for which an international Application has been filed as: (for the PCT-US national entry, check only (c) and enter PCT application number in the right)	PCT Application No.	CONTROL COMMUNICATION OF THE COLUMN	and,
2. For use when signing Declara	ion after filing U.S. patent application	on	
(d) $\hfill\Box$ for which an application for U.S. patent has been filed or	: Application Filing Date		and,
Its/their heirs, successors, legal representatives and assigns (hereinaft title, and interest in and to said invention and in and to any Letters Pat NOW, THEREFORE, for good and valuable consideration, the robe legally bound hereby, the undersigned, by these presents, does set title and interest in and to; (i) said invention in the United States of Ame as the United States) and in all countries foreign to the United States; disclosing said invention, including provisionals, non-provisionals, thereof in the United States and all countries foreign to the United States priority created by this patent application under any treaty relating their reissues and reexamination certificates which may be granted therefore. United States and in all countries foreign to the United States for the functed States and in all countries foreign to the United States for the functed States and in all countries foreign to the United States for the functed States and producing different and perform any act which may be necess for Protection of Industrial Property or similar agreements, all paper concerning this application or any and all Related Applications thereo and producing evidence and proceeding with such interference, and for title and interest in and to said invention, this application and any and legal proceeding relating thereto and in support thereof, for the benef with such applications as the Assignee(s) may deem necessary or exp. The undersigned agree(s) to perform all affirmative acts which in patent(s) to the Assignee(s) and to vest all rights hereby conveyed to the undersigned if this Assignment had not been made. The undersigned hereby authorize(s) and request(s) the Comm issue patents, to issue any and all Letters Patent(s) resulting from said and hereby covenants that the undersigned has (have) full right to the (have) not executed, and will not execute, any assignment, sale, agree The undersigned hereby does sell, assign and transfer unto attorney(s) executed by the undersigned in connection with this applicatio	ent(s) that may be granted thereceipt and sufficiency of which I, assign and transfer unto said rica, its territories, dependenciand (ii) this patent application a conversions, divisions, continus (hereinafter designated as "Rato; and (iii) any and all Letters is re, and all rights to sue for pastil term or terms thereof. In connection with this application a any in connection with claims of a range and all litigations regardinal Related Applications or Lettet of Assignee(s), and also to edient. In the expension of the Assignee of the A	refor. If are hereby acknowledge of Assignee(s) the entire es and possessions (he and any and all related putions, continuations-in Related Applications"), all Patent(s), including all rest and future infringement any and all Related Apropositions of the Internet any interference which any interference which any interference who are patent(s) therefore, execute separate assignment of a valid United Statistically as the same would also of all foreign countries ated Applications thereof in assigned, and that the fillet herewith. If exclusive authority for power of attorney in pla	ged and intended to and exclusive right, reinafter designated patent application(s) n-part and reissues long with all rights of enewals, extensions, and thereunder, in the Applications thereof, national Convention che may be declared possible in obtaining protecting the right, and to testify in any ments in connection ales and any foreign d have been held by es, whose duty is to f to said Assignee(s) he undersigned has a revoking power of

DIRECT States.

IN MUTHERS WHEREOF everyted by the undersigned on the date(s) following the undersigned name(s) and signature(s).

Box2	(Each Inventor, please Sign and Date b	elow)	-
	(e) First Name, Last Name	(f) Signature	(g) Date signed
(1)	Hirofumi SASAKI	Kirofuni Sasaki	DEC. 11, 2018
(2)	Takeshi MORI	Takeshi Moi	Month, Date, Year DEC, 11, 2014
(3)	Yoshiaki NAGAMURA	Joshiaki Nagamura	Month, Date, Year DEC , 11, 2014
(4)			Month, Date, Year

□Check if additional paper(s) is/are attached. Total of ____ pages are submitted.

PATENT REEL: 034716 FRAME: 0361