PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Atsushi YAMASHITA	12/13/2007
Takashi HORIYAMA	12/13/2007
Masakazu IKEDA	12/13/2007

RECEIVING PARTY DATA

Name:	SHARP KABUSHIKI KAISHA
Street Address:	22-22, Nagaike-Cho, Abeno-Ku, Osaka-shi
City:	Osaka
State/Country:	JAPAN
Postal Code:	545-8522

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11967658

CORRESPONDENCE DATA

Fax Number: (703)205-8050

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 7032058000 Email: frazera@bskb.com

Correspondent Name: Birch, Stewart, Kolasch & Birch, LLP

Address Line 1: P.O. Box 747

Address Line 4: Falls Church, VIRGINIA 22040-0747

ATTORNEY DOCKET NUMBER: 2936-0308PUS1

NAME OF SUBMITTER: Michael R. Cammarata

Total Attachments: 2

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PATENT

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BIRCH, STEWART, KOLASCH & BIRCH, LLP

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ASSIGNMENT

Application No. 11/967,658

terms for which the same may be granted.

Filed Dec. 31, 2007

Insert Name(s) of Inventor(s)	***(Given Name FAMILY NAME (ALL CAPS))***					
	WHEREAS,	Atsushi YAMASHITA	Takashi HORIYAMA			
	Masakazu IKEDA					
	(hereinafter designated as the t	indersigned) has (have) invented certa	in new and useful improvements in			
Insert Title						
of Invention		ATING CIRCUIT, ION GENER	ATING DEVICE AND ELECTR	<u>UCAI</u>		
	APPARATUS					
	for which an application for	Letters Patent of the United States e of a provisional application).	of America has been executed by the	e		
	differential (except in the case	s of a provisional application).				
Insert Date of Signing of						
Application	onD	ecember 13, 2007		_; and		
Insert Name						
of Assignee	WHEREAS,	SHARP KABUSHIKI K	AISHA			
Insert Address						
of Assignee	of <u>22-22, Nagail</u>	ke-Cho, Abeno-Ku, Osaka-shi, Osaka	545-8522 Japan			
CHECK BOX IF APPROPRIATE						
	the receipt of which is hereby has (have) sold, assigned and Assignee the full and exclusiv dependencies and possessions which may be granted therefor	acknowledged, and other good and vertransferred, and by these presents due right to the said invention in the U and the entire right, title and interest	10.00) to the undersigned in hand paid valuable consideration, the undersigned loss sell, assign and transfer unto said whited States of America, its territories in and to any and all Letters Patent(s) erritories, dependencies and possessions	d d s, s)		

and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or

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PATENT REEL: 020988 FRAME: 0453 The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the 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 of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the 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 law firm of Birch, Stewart, Kolasch & Birch, LLP 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 U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

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

Date_	December 13, 2007	Name of Inventor Klaush Yamashila	
Date_	December 13, 2007	(signature) Atsushi YAMASHITA Name of Inventor Takashi Horiyama (signature) Takashi HORIYAMA	
Date_	December 13, 2007	Name of Inventor <u>Mûsakazu (kredi;</u> (signature) Masakazu IKEDA	-
Date_		Name of Inventor(signature)	 -
Date_		Name of Inventor(signature)	
Date_		Name of Inventor (signature)	

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February 2002

RECORDED: 05/22/2008

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