#### PATENT ASSIGNMENT

### Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

#### **CONVEYING PARTY DATA**

Name	Execution Date
Yoshiya ABIKO	07/27/2010
Yasushi FUNAKOSHI	07/27/2010
Kyotaro NAKAMURA	07/27/2010

#### **RECEIVING PARTY DATA**

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

#### PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	12865207	

#### **CORRESPONDENCE DATA**

Fax Number: (703)816-4100

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

Phone: 703-816-4000 Email: teh@nixonvan.com

Correspondent Name: NIXON & VANDERHYE, PC

Address Line 1: 901 NORTH GLEBE ROAD, 11TH FLOOR

Address Line 4: ARLINGTON, VIRGINIA 22203

ATTORNEY DOCKET NUMBER: 914-302

NAME OF SUBMITTER: H. Warren Burnam, Jr.

Total Attachments: 2

source=Assignment#page1.tif source=Assignment#page2.tif

PATENT

REEL: 024760 FRAME: 0012

F \$40.00 128652

501247248 REEL: 024760

FAX番号

P. 003

ATTORNEY DOCKET	NO.

# UNITED STATES PATENT RIGHTS, OR UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

## **ASSIGNMENT**

		Application No.	W	Filed	L	
Insart Name(s) of Inventor(s)	***	WHEREAS.	Yoshiya ABIKO, Yas	oushi FUNAKOSHI,	and Kyotaro NAKAMU	RA
Insert Title of Invention	<b></b>		eed as the undersigned) has (he sanufacturing Sola:		and useful improvements in	
Insert Date of Signing of Application Insert Name of Assignce	<b></b>	for which an applic undersigned (except on July 27 WHEREAS,	in the dese of a brovisional sp	plication).	erica has been executed by	the
Insert Address of Assignee	<b>Back</b>	of 22-22, Na	agaike-cho, Abeno-	ku, Osaka-shi, d	Osaka 545-8522 Jap.	an
CHECK BOX  IF APPROPRIATE	ES\$-	Letters Patent(s) to in any and all formal paid, the receive undersigned he and transfer unto sof America, its territo any and all Lett territories, dependent countries;	ing the entire right, title and that may be granted therefore oreign countries.  EFORE, in consideration of a sipt of which is hereby acknown as (have) sold, assigned and ead Assignee the full and exitories, dependencies and poers Patent(s) which may be encies and possessions, and divisions, reissues, continus	d Interest in and to sail ir in the United States of the sum of Ten Dollars nowledged, and other go is transferred, and by the clusive right to the said assessions and the entire granted therefor in the diff the box above is de-	designated as the Assignee, id invention and in and to a of America and  (\$10.00) to the undersigned and valuable considerations essents does sell, assignated, in any and all forestantions thereof for the fextensions thereof fextensions the fextensions thereof fextensions the fextensions thereof fextensions thereof fextensions thereof fextensions the fextensions thereof fextensions the fextensions thereof fextensions the fextensions thereof fextensions the f	in i
		term or terms for	which the same may be gran	ittens, conversions and ited.	extensions thereof for the t	Full

2010/07/27/火 08:48

FAX番号

P. 004

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 Letters 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 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) the 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 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 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).

(1) Date	July 27, 2010	Name of Inventor	Yoshiya ABIKO
			Yasushi Fanakoshi Yasushi FUNAKOSHI
(3) Date	July 27, 2010 .	Name of Inventor	Kyotaro Nakamura Kyotaro Nakamura
(4) Date		Name of Inventor_	
(5) Date		Name of Inventor	
(6) D <b>a</b> te	•	Name of inventor	
(7) D <b>a</b> te		Name of inventor	
(8) Date		Name of Inventor	