

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CASIO COMPUTER CO., LTD.	08/04/2008
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	INTELLECTUAL VENTURES HOLDING 56 LLC
<b>Street Address:</b>	502 East John St.
<b>City:</b>	Carson City
<b>State/Country:</b>	NEVADA
<b>Postal Code:</b>	89706
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Patent Number:</b>	5212636
<b>CORRESPONDENCE DATA</b>	
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<b>Address Line 1:</b>	Verex Plaza
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<b>Address Line 4:</b>	Madison, WISCONSIN 53703-1481
<b>ATTORNEY DOCKET NUMBER:</b>	088245-5768
<b>NAME OF SUBMITTER:</b>	Paul S. Hunter

**Total Attachments: 13**

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**PATENT**

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## ASSIGNMENT OF PATENT RIGHTS

For good and valuable consideration, the receipt of which is hereby acknowledged, Casio Computer Co., Ltd., a Japanese corporation, with an office at 6-2 Hon-machi 1-chome, Shibuya-ku, Tokyo, 151-8543, Japan ("*Assignor*"), does hereby sell, assign, transfer, and convey unto Intellectual Ventures Holding 56 LLC, a Nevada limited liability company, having an address at 502 East John St., Carson City, NV 89706, USA ("*Assignee*"), or its designees, all right, title, and interest that exist today and may exist in the future in and to any and all of the following (collectively, the "*Patent Rights*"):

(a) the provisional patent applications, patent applications and patents listed in the table below (the "*Patents*");

(b) all patents and patent applications (i) to which any of the Patents directly or indirectly claims priority, (ii) for which any of the Patents directly or indirectly forms a basis for priority, and/or (iii) that were co-owned applications that incorporate by reference, or are incorporated by reference into, the Patents;

(c) all reissues, reexaminations, extensions, continuations, continuations in part, continuing prosecution applications, requests for continuing examinations, divisions, registrations of any item in any of the foregoing categories (a) and (b);

(d) all foreign patents, patent applications, and counterparts relating to any item in any of the foregoing categories (a) through (c), including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection, and other governmental grants or issuances;

(e) all items in any of the foregoing in categories (b) through (d), whether or not expressly listed as Patents below and whether or not claims in any of the foregoing have been rejected, withdrawn, cancelled, or the like;

(f) inventions, invention disclosures, and discoveries described in any of the Patents and/or any item in the foregoing categories (b) through (e) that (i) are included in any claim in the Patents and/or any item in the foregoing categories (b) through (e), (ii) are subject matter capable of being reduced to a patent claim in a reissue or reexamination proceedings brought on any of the Patents and/or any item in the foregoing categories (b) through (e), and/or (iii) could have been included as a claim in any of the Patents and/or any item in the foregoing categories (b) through (e);

(g) all rights to apply in any or all countries of the world for patents, certificates of invention, utility models, industrial design protections, design patent protections, or other governmental grants or issuances of any type related to any item in any of the foregoing categories (a) through (f), including, without limitation, under the Paris Convention for the Protection of Industrial Property, the International Patent Cooperation Treaty, or any other convention, treaty, agreement, or understanding;

(h) all causes of action (whether known or unknown or whether currently pending, filed, or otherwise) and other enforcement rights under, or on account of, any of the Patents and/or any item in any of the foregoing categories (b) through (g), including, without limitation, all causes of action and other enforcement rights for

- (1) damages,
- (2) injunctive relief, and
- (3) any other remedies of any kind

for past, current, and future infringement; and

- (i) all rights to collect royalties and other payments under or on account of any of the Patents and/or any item in any of the foregoing categories (b) through (h).

<u>Patent or Application</u>		<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
<u>No.</u>				
1	5,042,079	US	1989/08/03	Method of recording/reproducing data of mesh pattern, and apparatus therefor  Morikawa, Shigenori
	5,577,774	US	1994/02/10	Method of recording/reproducing data of mesh pattern, and apparatus therefor  Morikawa, Shigenori
	5,591,957	US	1995/05/26	Apparatus for reading mesh pattern image data having bars along upper and lower sides of mesh pattern and a boundary line between horizontally adjacent dark and light area of mesh pattern  Morikawa, Shigenori
	2104624	JP	1988/08/12	Data reading device and data recording medium  Morikawa, Shigenori
	2737163	JP	1988/08/12	Method and device for recording binary data and method and device for recording and reproducing binary date  Morikawa, Shigenori
2	5,126,958	US	1989/06/08	Calculator equipped with notation converting function  Genda, Kouhei
3	5,153,928	US	1990/05/30	Method and apparatus for recording/reproducing mesh pattern data  Iizuka, Nobuo
	5,454,054	US	1992/04/14	Method and apparatus for recording/reproducing mesh pattern data  Iizuka, Nobuo
	5,664,030	US	1995/05/26	Method and apparatus for recording/reproducing mesh pattern data  Iizuka, Nobuo
	2734638	JP	1989/06/09	Method and device for recording data  Iizuka, Nobuo
	2734639	JP	1989/06/09	Method and device for recording data

**Patent or  
Application  
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**Country**

**Filing Date**

**Title of Patent and First Named Inventor**

	<b><u>Patent or Application No.</u></b>	<b><u>Country</u></b>	<b><u>Filing Date</u></b>	<b><u>Title of Patent and First Named Inventor</u></b>
				Iizuka, Nobuo
4	5,165,016	US	1990/01/22	Image data output apparatus with display range designation means Takahashi, Tetsuji
5	5,181,273	US	1991/04/12	Electronic apparatus having a calendar-display function Ohtani, Yuji
	0350065	GB	1989/07/07	Electronic apparatus having a calendar-display function Ohtani, Yuji
	68912980	DE	1989/07/07	Electronic apparatus having a calendar-display function Ohtani, Yuji
	0350065	FR	1989/07/07	Electronic apparatus having a calendar-display function Ohtani, Yuji
6	5,182,657	US	1990/04/24	Image processing apparatus including binary data producing unit Sato, Takashi
	5,444,553	US	1994/07/21	Image processing apparatus including binary data producing unit Sato, Takashi
	5,530,559	US	1995/04/24	Image processing apparatus including binary data producing unit Sato, Takashi
	3074683	JP	1989/06/12	Binarization Circuit Sano, Teruo
7	5,212,636	US	1989/12/26	Radio receiver capable of confirming gambling results Nakazawa, Eiji
8	5,309,254	US	1993/08/04	Image processing apparatus capable of processing halftone image data Kuwabara, Nobuaki
9	5,425,138	US	1992/12/17	Apparatus and method for automatically editing documents including text data and table data with ruled lines Kumakawa, Yoshio
	2995313	JP	1992/08/31	Document data output device Kumakawa, Yoshio
10	5,504,850	US	1994/11/28	Data processing apparatus with headline representation

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**Patent or  
Application  
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**Country**

**Filing Date**

**Title of Patent and First Named Inventor**

				Aoyama, Shinichiro
11	5,509,087	US	1995/05/31	Data entry and writing device
				Nagamine, Kimihiro
12	5,529,501	US	1994/12/16	Electronic writing/erasing apparatus for rewritable heat sensitive sheet
				Maruyama, Satoru
13	5,557,727	US	1993/03/01	Diagram drawing apparatus
				Nagai, Sachiko
	93 1 02003.4	CN	1993/03/02	Diagram drawing apparatus
				Nagai, Sachiko
14	5,568,637	US	1994/06/20	Electronic device having pseudo-SRAM and CPU operating in an active mode and in an idle mode
				Moriya, Kouji
	154556	KR	1994/06/28	Electronic device having pseudo-SRAM
				Moriya, Kouji
	112377	TW	1994/06/27	Moriya, Kouji
	MY-111229-A	MY	1994/06/23	Moriya, Kouji
15	5,640,499	US	1996/04/01	Method of editing a drawing displayed on a display unit of a computer by simultaneously moving plural elements included in an editing area
				Nagai, Sachiko
16	5,758,332	US	1995/06/02	Information service providing system
				Hirotoni, Takayuki
	10-0201298	KR	1995/06/22	Information system
				Hirotoni, Takayuki
	114033	IL	1995/06/07	System for providing and retrieving information
				Hirotoni, Takayuki
17	5,761,340	US	1996/03/11	Data editing method and system for a pen type input device
				Suzuki, Hideo
	3343987	JP	1993/04/28	Handwriting input device
				Suzuki, Hideo
	3388451	JP	1993/05/21	Handwriting input device
				Suzuki, Hideo
18	5,832,113	US	1997/09/29	Data input device with a display keyboard
				Sano, Teruo
	0661619	GB	1994/12/27	A data input device with a display keyboard

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**Patent or  
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No.**

**Country**

**Filing Date**

**Title of Patent and First Named Inventor**

	69432344	DE	1994/12/27	Sano, Teruo A data input device with a display keyboard
	0661619	FR	1994/12/27	Sano, Teruo A data input device with a display keyboard
	ZL94113556.X	CN	1994/12/28	Sano, Teruo A data input device with a display keyboard
	81517	TW	1994/12/28	Sano, Teruo
	HK1013467	HK	1998/12/22	Sano, Teruo A data input device with a display keyboard
19	5,850,231	US	1996/05/13	Sano, Teruo Electronic device having ferroelectric memory
	0620555	GB	1994/04/13	Orimoto, Takashi Electronic device having ferroelectric memory
	69425341	DE	1994/04/13	Orimoto, Takashi Electronic device having ferroelectric memory
	0620555	FR	1994/04/13	Orimoto, Takashi Electronic device having ferroelectric memory
	0620555	NL	1994/04/13	Orimoto, Takashi Electronic device having ferroelectric memory
	ZL94103584.0	CN	1994/04/13	Orimoto, Takashi Electronic device having ferroelectric memory
	10-0151223	KR	1994/04/12	Orimoto, Takashi Electronic device having ferroelectric memory
	MY-111088-A	MY	1994/04/11	Orimoto, Takashi
	PI9805936	MY	1998/12/30	Orimoto, Takashi
	PI9805939	MY	1998/12/30	Orimoto, Takashi
	72359	TW	1994/04/11	Orimoto, Takashi
	HK1013518	HK	1998/12/22	Orimoto, Takashi Electronic device having ferroelectric memory
20	5,867,209	US	1995/11/08	Orimoto, Takashi Television telephone which displays image data having a first precision degree and image data having a second precision degree on a respective display region of a display screen
21	5,956,681	US	1997/11/06	Irie, Yuichiro Apparatus for generating text data on the basis of speech data input from terminal
	0851403	GB	1997/11/17	Yamakita, Tooru Apparatus for generating text data on the basis of speech data input from terminal

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<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>	
			Yamakita, Tooru	
69728744	DE	1997/11/17	Apparatus for generating text data on the basis of speech data input from terminal	
			Yamakita, Tooru	
0851403	FR	1997/11/17	Apparatus for generating text data on the basis of speech data input from terminal	
			Yamakita, Tooru	
HK1015047	HK	1998/12/31	Apparatus for generating text data on the basis of speech data input from terminal	
			Yamakita, Tooru	
3402100	JP	1996/12/27		
			Yamakita Tooru	
22	5,982,887	US	1996/12/26	Encrypted program executing apparatus
				Hirovani, Takayuki
	0768601	GB	1996/4/18	Device for executing enciphered program
				Hirovani, Takayuki
	69619186	DE	1996/4/18	Device for executing enciphered program
				Hirovani, Takayuki
	0768601	FR	1996/4/18	Device for executing enciphered program
				Hirovani, Takayuki
	ZL96190418.6	CN	1996/12/27	Device for executing enciphered program
				Hirovani, Takayuki
	85742	TW	1996/04/24	Hirovani, Takayuki
23	6,014,136	US	1997/09/30	Data processing apparatus with communication function
				Ogasawara, Satoshi
	0827657	GB	1997/11/26	Data processing apparatus with communication function
				Ogasawara, Satoshi
	69724893	DE	1997/11/26	Data processing apparatus with communication function
				Ogasawara, Satoshi
	HK1009569	HK	1998/08/28	Data processing apparatus with communication function
				Ogasawara, Satoshi
	6,026,400	US	1998/02/11	Information processors which provide advice information, and recording mediums
				Suzuki, Hideo
24	329378	KR	1998/02/18	Suzuki, Hideo
	3200764	JP	1997/04/02	Portable information terminal and storage medium



<u>Patent or Application No.</u>		<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
				Suzuki, Hideo
	98102633.9	EP	1998/02/16	Information processor for retrieving advice information
	6,034,685	US	1998/05/27	Suzuki, Hideo Data inputting devices
25	5,838,302	US	1996/02/21	Kuriyama, Yuji Data inputting devices for inputting typed and handwritten data in a mixed manner
	3598563	JP	1995/02/24	Kuriyama, Yuji Input device
	6,052,715	US	1997/05/13	Kuriyama, Yuji Interactive communication system for downloading large amount data
26	6,065,044	US	1998/03/12	Fukui, Takayoshi Home page update notification apparatus comparing notification time and update time to determine home page update status in an information communication system using computer network and program recording medium
27	ZL98100915.8	CN	1998/03/17	Ogasawara, Satoshi Update notification apparatus and method in information communication system using computer network
	283646	KR	1998/03/16	Ogasawara, Satoshi
	HK1022138	HK	2000/02/26	Ogasawara, Satoshi Update notification apparatus and method in information communication system using
	3139408	JP	1997/03/17	Ogasawara, Satoshi Home page updation notifying device
	6,085,219	US	1998/03/16	Ogasawara, Satoshi Home page creating systems apparatuses and program recording mediums, and home page displaying systems and program recording mediums
28	ZL98100794.5	CN	1998/03/24	Moriya, Koji Main page establishing system, and device for main page display system and program recording media
	303183	KR	1998/03/23	Moriya, Koji
	6,148,287	US	1997/10/03	Moriya, Koji Voice data transmission/storage system

<u>Patent or Application</u>		<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
No.				
29	97117492.5	EP	1997/10/09	Yamakita, Tooru Voice data transmission/storage system
	98111396.0	HK	1998/10/21	Yamakita, Tooru Yamakita, Tooru
	6,208,744	US	1995/12/11	Document image processor and method for setting a document format conforming to a document image  Ishige, Yoshiki
30	6,240,405	US	1998/04/14	Information processors having an agent function and storage mediums which contain processing programs for use in the information processor  Suzuki, Hideo
31	ZL98101565.4	CN	1998/04/17	Information processor having agent function  Suzuki, Hideo
	311081	KR	1998/04/16	Suzuki, Hideo
	H09-101876	JP	1997/04/18	Information processor and storage medium  Suzuki, Hideo
	6,272,490	US	1998/12/03	Document data linking apparatus  Yamakita, Tooru
32	3521879	JP	2001/4/2	System to link document data, display/access system linking address, and distribution for  Yamakita, Toru
	98123278.8	EP	1998/12/07	Document data linking apparatus  Yamakita, Tooru
	99106179.2	HK	1999/12/29	Yamakita, Tooru
	6,366,698	US	1998/03/06	Portable terminal device for transmitting image data via network and image processing device for performing an image processing based on recognition result of received image data  Yamakita, Tooru
33	0865192	GB	1998/03/10	Portable terminal device for transmitting image data via network and image processing device for performing an image processing based on recognition result of received image data  Yamakita, Tooru
	69821040	DE	1998/03/10	Portable terminal device for transmitting image data via network and image processing device for performing an image processing based on recognition result of received image data  Yamakita, Tooru
	0865192	FR	1998/03/10	Portable terminal device for transmitting image data via network and image processing device for performing an image processing based on recognition result of received image data

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<b>No.</b>	<b>Country</b>	<b>Filing Date</b>	<b>Title of Patent and First Named Inventor</b>	
			Yamakita, Tooru	
	ZL98100497.0	CN	1998/03/11	Data transmitting/receiving device
				Yamakita, Tooru
	308543	KR	1998/03/11	Yamakita, Tooru
	HK1016389	HK	1999/03/16	Portable terminal device for transmitting image data via network and image processing device for performing an image processing based on
				Yamakita, Tooru
	6,369,802	US	1998/03/27	Handwritten data input device having coordinate detection tablet
				Ebisawa, Isao
34	ZL98108886.4	CN	1998/04/01	Handwritten data input device having coordinate detection tablet
				Ebisawa, Isao
	309254	KR	1998/04/01	Ebisawa, Isao
	HK1017110	HK	1999/05/11	Handwritten data input device and method having coordinate detection tablet
				Ebisawa, Isao
	6,473,790	US	1998/09/14	Network system for serving information to mobile terminal apparatus
				Tagi, Minoru
35	98800113.6	CN	1998/10/07	Network system for serving information to mobile terminal apparatus
				Tagi, Minoru
	10-0291088	KR	1998/10/02	Network system for serving information to mobile terminal apparatus
				Tagi, Minoru
	69838967	DE	1998/2/6	Network system for serving information to mobile terminal apparatus
				Tagi, Minoru
	0901676	FR	1998/2/6	Network system for serving information to mobile terminal apparatus
				Tagi, Minoru
	0901676	GB	1998/2/6	Network system for serving information to mobile terminal apparatus
				Tagi, Minoru
	6,477,548	US	1999/09/27	Server computer capable of automatically notifying updated database content to client computer, and program storage medium
				Nihei, Tomoyuki
	6,487,557	US	1998/12/22	Network-access management system and method applied to network and computer

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<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
			program product including computer program recorded on storage medium for creating display data Nagatomo, Shoichi
	0926591	GB	1998/12/22 Network-access management system and method Nagatomo, Shoichi
36	69831307	DE	1998/12/22 Network-access management system and method Nagatomo, Shoichi
37	0926591	FR	1998/12/22 Network-access management system and method Nagatomo, Shoichi
	0926591	NL	1998/12/22 Network-access management system and method Nagatomo, Shoichi
	ZL98111686.8	CN	1998/12/25 Network-access management system and method, and computer program product Nagatomo, Shoichi
	313446	KR	1998/12/26 Nagatomo, Shoichi
	HK1023195	HK	2000/04/05 Nagatomo, Shoichi
	4010041	JP	1997/12/26 System and method for display form adjustment, and record medium Nagatomo, Shoichi
	H09-361539	JP	1997/12/26 Display format preparation system, method therefore and recording medium Nagatomo, Shoichi
	6,493,743	US	1998/09/02 Pda workspace interface using application icons for downloading remote user file Suzuki, Hideo
	98900760.4	EP	1998/10/23 Data processing apparatus used for communication network Suzuki, Hideo
	6,496,852	US	1999/04/29 Electronic mail system and electronic mail processing method Yamaguchi, Yoshito
38	127820	TW	1998/09/21 Electronic mail system and storage medium storing electronic mail processing program Yamaguchi, Yoshito
	3610379	JP	1997/11/22 Electronic mail device Yamaguchi, Yoshito
39	6,519,471	US	1999/08/17 Portable electronic mail apparatus and storage

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<u>Patent or Application</u>		<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
No.				
				medium storing electronic mail program Yamaguchi, Yoshito
	124769	TW	1998/12/24	Portable electronic mail apparatus and storage medium storing electronic mail program Yamaguchi, Yoshito
	MY-120240-A	MY	1998/12/26	Yamaguchi, Yoshito
40	3610380	JP	1997/12/27	Portable electronic mail terminal equipment Yamaguchi, Yoshito
	6,525,716	US	1998/03/27	Handwritten data input device having coordinate detection tablet Makino, Ieharu
	ZL98101069.5	CN	1998/04/01	Handwritten data input device having coordinate detection image input tablet and method thereof Makino, Ieharu
	314637	KR	1998/04/01	Makino, Ieharu
41	110039	TW	1998/04/01	Makino, Ieharu
	HK1016304	HK	1999/04/28	Data input device and method having coordinate detection tablet Makino, Ieharu
	6,658,410	US	2000/10/04	System and method for intermediating information Sakamaki, Katsuya
	00807983.8	CN	2000/10/03	System and method for intermediating information Sakamaki, Katsuya
	10-0428867	KR	2000/10/03	System and method for intermediating information Sakamaki, Katsuya
42	769341	AU	2000/10/03	System and method for intermediating information Sakamaki, Katsuya
	00963074.0	EP	2000/10/03	System and method for intermediating information Sakamaki, Katsuya
	03107265.0	HK	2003/10/09	Sakamaki, Katsuya
	6,703,918	US	2000/08/30	Portable information equipment, authentication device, authentication system and authentication method Kita, Kazunori

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
6,753,882	US	2001/01/24	Wrist audio player system and wrist audio player device Nakazawa, Akira
6,813,605	US	2001/07/30	Methods and systems for selling voice data Nakamura, Hiroataka
43 6,985,913	US	2001/12/18	Electronic book data delivery apparatus, electronic book device and recording medium Murata, Yoshiyuki
44 01145215.3	CN	2001/12/28	Electronic book data delivery apparatus, electronic book device and recording medium Murata, Yoshiyuki
45 254212	TW	2001/12/26	Electronic book data delivery apparatus, electronic book device Murata, Yoshiyuki
46 3100655.3	HK	2003/01/24	Murata, Yoshiyuki
2000-402269	JP	2000/12/28	Digital book apparatus and voice reproducing system Murata, Yoshiyuki
4075349	JP	2001/10/18	Electronic book data delivery device, electronic book device, and program Murata, Yoshiyuki
7,002,557	US	2003/01/27	Portable electronic apparatus and a display control method Iizuka, Nobuo
7,209,944	US	2001/09/20	System and method for providing information, and recording medium Ogasawara, Satoshi
2000-293387	JP	2000/09/27	System and method for providing information, terminal equipment, and recording medium Ogasawara, Satoshi

The terms and conditions of this Assignment of Patent Rights will inure to the benefit of Assignee, its successors, assigns, and other legal representatives and will be binding upon Assignor, its successors, assigns, and other legal representatives.

IN WITNESS WHEREOF this Assignment of Patent Rights is executed at Tokyo,  
Japan on August 4, 2008.

ASSIGNOR:

Casio Computer Co., Ltd.

32052-1178/LEGAL14214601.6

PATENT  
REEL: 021701 FRAME: 0675

By: Yukio Kashio  
Name: Yukio Kashio  
Title: Executive Vice President  
(Signature MUST be attested)

**ATTESTATION OF SIGNATURE PURSUANT TO 28 U.S.C. 1746**

The undersigned witnessed the signature of Yukio Kashio to the above Assignment of Patent Rights on behalf of Casio Computer Co., Ltd. and makes the following statements:

1. I am over the age of 18 and competent to testify as to the facts in this Attestation block if called upon to do so.
2. Yukio Kashio is personally known to me (or proved to me on the basis of satisfactory evidence) and appeared before me on August 4, 2008 to execute the above Assignment of Patent Rights on behalf of Casio Computer Co., Ltd.
3. Yukio Kashio subscribed to the above Assignment of Patent Rights on behalf of Casio Computer Co., Ltd.

I declare under penalty of perjury under the laws of the United States of America that the statements made in the three (3) numbered paragraphs immediately above are true and correct.

EXECUTED on August 4, 2008 (date)

Hejime Manabe  
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