

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT2821666

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MITSUAKI KUMAGAI	10/04/2011
TAKAO OBATA	10/04/2011
NOBORU ISHII	10/04/2011
TOSHIKAZU MINEGISHI	10/04/2011
YOSHIAKI KASAI	10/04/2011
ICHIRO YAMAMOTO	10/04/2011
ATSUSHI KOBAYASHI	10/04/2011
YOSHIKAZU KAWAMOTO	10/04/2011
YOSHIHITO KOUDA	10/04/2011
KATSUTOSHI MATSUURA	10/04/2011
KAZUHITO MIURA	10/04/2011
TAKU ANDO	10/04/2011
TOMOHIRO TAKIZAWA	10/04/2011
YU KUROSAWA	10/04/2011
YUKI ZETSU	10/04/2011
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	FUJITSU FRONTECH LIMITED
<b>Street Address:</b>	1776, YANOKUCHI
<b>Internal Address:</b>	INAGI-SHI
<b>City:</b>	TOKYO, 206-8555
<b>State/Country:</b>	JAPAN
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	29417763
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(605)791-1857
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	6123736900
<b>Email:</b>	Request@slwip.com
<b>PATENT</b>	

**Correspondent Name:** SCHWEGMAN, LUNDBERG & WOESSNER, P.A.  
**Address Line 1:** P.O. BOX 2938  
**Address Line 4:** MINNEAPOLIS, MINNESOTA 55402-0938

<b>ATTORNEY DOCKET NUMBER:</b>	2293.049US1
<b>NAME OF SUBMITTER:</b>	MICHELLE A. VOTH
<b>SIGNATURE:</b>	/ Michelle A. Voth /
<b>DATE SIGNED:</b>	04/21/2014

**Total Attachments: 18**

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RECORDATION FORM COVER SHEET  
PATENTS ONLY

Atty Ref/Docket No.: 2293.049US1

Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Mitsuaki Kumagai, Takao Obata, Noboru Ishii,  
Toshikazu Minegishi, Yoshiaki Kasai, Ichiro Yamamoto,  
Atsushi Kobayashi, Yoshikazu Kawamoto, Yoshihito  
Kouda, Katsutoshi Matsuura, Kazuhito Miura, Taku  
Ando, Tomohiro Takizawa, Yu Kurosawa, Yuki Zetsu

Additional name(s) of conveying party(ies) attached?

[ ] Yes [X] No

2. Name and address of receiving party(ies):

Name: Fujitsu Frontech Limited

Street Address: 1776, Yanokuchi  
Inagi-shi

City: Tokyo, 206-8555

Country: Japan

Additional name(s) & address(es) attached? [ ] Yes [X] No

3. Nature of conveyance:

[X] Assignment

[ ] Merger

[ ] Security Agreement [ ] Change of Name

[ ] Other

Execution Date: October 4, 2011, October 4, 2011,  
October 4, 2011, October 4, 2011, October 4, 2011,  
October 4, 2011, October 4, 2011, October 4, 2011,  
October 4, 2011, October 4, 2011, October 4, 2011,  
October 4, 2011, . . .

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

Serial No. 29/417,763

Additional numbers attached? [ ] Yes [X] No

5. Name and address of party to whom correspondence  
concerning document should be mailed:

Name: Peter C. Maki

Address: Schwegman, Lundberg & Woessner, P.A.  
P.O. Box 2938  
Minneapolis, MN 55402--0938

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 0.00

[ ] Enclosed

[ ] Authorized to be charged to deposit account 19-  
0743

8. Please charge any additional fees or credit any over  
payments to our Deposit Account No.: 19-0743

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy  
of the original document.

Peter C. Maki/Reg. No. 42,832

Name of Person Signing

*Peter C. Maki*

Signature

April 21, 2014

Date

Total number of pages including cover sheet: 18

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks

Mail Stop Assignment Recordation Services

P.O. Box 1450

Alexandria, VA 22313-1450

PATENT

REEL: 032716 FRAME: 0838

### ASSIGNMENT

WHEREAS, Mitsuaki Kumagai, Takao Obata, Noboru Ishii, Toshikazu Minegishi, Yoshiaki Kasai, Ichiro Yamamoto, Atsushi Kobayashi, Yoshikazu Kawamoto, Yoshihito Kouda, Katsutoshi Matsuura, Kazuhito Miura, Taku Ando, Tomohiro Takizawa, Yu Kurosawa, Yuki Zetsu (hereinafter the "Undersigned") have made one or more inventions and other subject matter (hereinafter collectively referred to as the "Invention") which are described in a patent application filed on April 9, 2012, which application was assigned US patent application serial number 29/417,763, and which is titled ELECTRONIC CALCULATOR; which are described in a patent application filed on October 19, 2011, which application was assigned JP application serial number 2011-024038, and which is titled ELECTRONIC CALCULATOR.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged by the Undersigned, the Undersigned do hereby irrevocably and unconditionally:

CONVEY, ASSIGN, AND TRANSFER to Fujitsu Frontech Limited (the "Assignee"), a corporation of the Country of Japan, having a place of business at 1776, Yanokuchi, Inagi-shi, Tokyo 206-8555, Japan, the Undersigned's entire right, title, and interest for the United States and all foreign countries and jurisdictions in and to:

the Invention which is disclosed in the above-identified application or applications;

such application or applications, and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and jurisdictions based in whole or in part on any of such Invention (including any application for a utility model or an innovation patent application);

all original and reissued patents which have been or shall be issued in the United States and all foreign countries and jurisdictions based in whole or in part on any of such Invention;

including the right to claim priority to the above-identified patent application or applications in relation to subject matter based in whole or in part on the above-identified patent application or applications and any of the foregoing including the right to file foreign applications under the provisions of any convention or treaty;

and including the right to all causes of action, remedies, and other enforcement rights related to the above-identified application or applications, including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the above-identified patent application or applications and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such Invention to the Assignee;

AUTHORIZE AND REQUEST that any attorney associated with U.S. Patent and Trademark Office (USPTO) Customer No. 21186 may (directly or through his/her designee) delete, insert, or alter any information related to the above-identified patent application or applications or any of the foregoing, after execution of this Assignment;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or shall be made to others by the Undersigned, and that the full right to convey the same as herein expressed is possessed by the Undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the Undersigned shall (1) execute all provisional, non-provisional, divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other patent applications for the Invention; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers for the Invention; (3) communicate to the Assignee all facts known to the Undersigned relating to the Invention and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for the Invention; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such Invention in the Assignee, or for securing, maintaining and enforcing proper patent protection for the Invention;

COVENANT, that should any provision of this agreement be held unenforceable by an authority of competent jurisdiction, such a ruling shall not affect the validity and enforceability of the remaining provisions. To the extent that any such provision is found to be unenforceable, the Undersigned, when requested and without compensation shall act in good faith to substitute for such provision a new provision with content and purpose as close as possible to the provision deemed unenforceable.

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives, and successors of the Undersigned, and is to extend to the benefit of the successors, assigns, and nominees of the Assignee.

AGREED as of the date of my signature below:

Assignor:

(Signature): Mitsuaki Kumagai

Name: Mitsuaki Kumagai

City/State: Inagi-shi, Tokyo

Date: October 4, 2011

On this 24 day of April, 2012 before me personally appeared Mitsuaki Kumagai, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

Toshikazu Mineshima

Witness

Assignor:

(Signature): Takao Obata

Name: Takao Obata

City/State: Inagi-shi, Tokyo

Date: October 4, 2011

On this 24 day of April, 2012, before me personally appeared Takao Obata, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

Toshikazu Minebishi

Witness

Assignment  
Assignors: Mitsuaki Kumagai et al.  
Title: ELECTRONIC CALCULATOR  
Page 5 of 17

Docket No: 2293.049US1  
Client Ref. No. 2012FFD001US

Assignor:

(Signature): Noboru Ishii

Name: Noboru Ishii

City/State: Inagi-shi, Tokyo

Date: October 4, 2011

On this 23 day of April, 2012 before me personally appeared Noboru Ishii, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

Toshikazu Minegishi

Witness



Assignment  
Assignors: Mitsuki Kumagai et al.  
Title: ELECTRONIC CALCULATOR  
Page 6 of 17

Docket No: 2293.049US1  
Client Ref. No. 2012FPD00108

Assignor:

(Signature): Toshikazu Minegishi

Name: Toshikazu Minegishi

City/State: Inagi-shi, Tokyo

Date: October 4, 2011

On this 23 day of April, 2012, before me personally appeared Toshikazu Minegishi, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

Noboru Ishii

Witness

Assignment  
Assignors: Mitsuaki Kumagai et al.  
Title: ELECTRONIC CALCULATOR  
Page 7 of 17

Docket No: 2293.049US1  
Client Ref. No. 2912FFD001US

Assignor:

(Signature): Yoshiaki Kasai

Name: Yoshiaki Kasai

City/State: Inagi-shi, Tokyo

Date: October 4, 2011

On this 24 day of April, 20 11 before me personally appeared Yoshiaki Kasai, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

Toshitazu Hineshiki

Witness

PATENT

REEL: 032716 FRAME: 0845

Assignment  
Assignors: Mitsuaki Kumagai et al.  
Title: ELECTRONIC CALCULATOR  
Page 8 of 17

Docket No: 2293.049US1  
Client Ref. No: 2012PPD001US

Assignor:

(Signature): Ichiro Yamamoto

Name: Ichiro Yamamoto

City/State: Inagi-shi, Tokyo

Date: October 4, 2011

On this 21 day of May, 2012 before me personally appeared Ichiro Yamamoto, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

Kazuhito Miura

Witness

PATENT

REEL: 032716 FRAME: 0846

Assignor:

(Signature): Atsushi Kobayashi

Name: Atsushi Kobayashi

City/State: Inagi-shi, Tokyo

Date: October 4, 2011

On this 11 day of May, 2012 before me personally appeared Atsushi Kobayashi, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

Yochikazu Kawamoto

Witness

Assignor:

(Signature): Yoshikazu Kawamoto

Name: Yoshikazu Kawamoto

City/State: Inagi-shi, Tokyo

Date: October 4, 2011

On this 8 day of May, 2012 before me personally appeared Yoshikazu Kawamoto, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

KAZUHIRO MIURA

Witness

Assignor:

(Signature): Yoshihito Kouda

Name: Yoshihito Kouda

City/State: Inagi-shi, Tokyo

Date: October 4, 2011

On this 5 day of May, 2012, before me personally appeared Yoshihito Kouda, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

Kazuhito Miura

Witness

Assignment  
Assignors: Mitsuaki Kumagai et al.  
Title: ELECTRONIC CALCULATOR  
Page 12 of 17

Docket No: 2293,049US1  
Client Ref. No. 2012FFD001US

Assignor:

(Signature): 松浦 克敏

Name: Katsutoshi Matsuura

City/State: Inagi-shi, Tokyo

Date: Oct, 4, 2011

On this 17 day of May, 2012 before me personally appeared Katsutoshi Matsuura, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

Kazuhito Miura

Witness

Assignor:

(Signature): Kazuhito Miura

Name: Kazuhito Miura

City/State: Inagi-shi, Tokyo

Date: October 4, 2011

On this 8 day of May, 2012 before me personally appeared Kazuhito Miura, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

Yasuhito Kaida

Witness



Assignment  
Assignors: Mitsuaki Kumagai et al.  
Title: ELECTRONIC CALCULATOR  
Page 14 of 17

Docket No: 2293 049US1  
Client Ref. No. 2012FFD001US

Assignor:

(Signature): Taku Ando

Name: Taku Ando

City/State: Kanagawa

Date: October 4, 2011

On this 23 day of April, 2012, before me personally appeared Taku Ando,  
to me known and known to me to be the person described in and who executed the foregoing  
instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and  
purposes therein set forth.

Tomohiro Takizawa

Witness

Assignment  
Assignors: Mitsunori Kumagai et al.  
Title: ELECTRONIC CALCULATOR  
Page 15 of 17

Docket No: 2293,049US1  
Client Ref. No. 2012FFD001US

Assignor:

(Signature): Tomohiro Takizawa

Name: Tomohiro Takizawa

City/State: Kanagawa

Date: October 4, 2011

On this 23 day of April, 2012 before me personally appeared Tomohiro Takizawa, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

Yuki Zetsu

Witness

Assignment  
Assignors: Mitsuaki Kumagai et al.  
Title: ELECTRONIC CALCULATOR  
Page 16 of 17

Docket No: 2293.049US1  
Client Ref. No. 2012FPD001US

Assignor:

(Signature): Yu Kurosawa

Name: Yu Kurosawa

City/State: Kanagawa

Date: October 9, 2011

On this 23 day of April, 2012 before me personally appeared Yu Kurosawa, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

Yuki Zetsu

Witness

Assignor:

(Signature): Yuki Zetsu

Name: Yuki Zetsu

City/State: Kanagawa

Date: October 4, 2011

On this 23 day of April, 2012 before me personally appeared Yuki Zetsu,  
to me known and known to me to be the person described in and who executed the foregoing  
instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and  
purposes therein set forth.

Yu Kurosawa

Witness