503598591 12/07/2015

PATENT ASSIGNMENT COVER SHEET

EPAS ID: PAT3645221

Electronic Version v1.1
Stylesheet Version v1.2

SUBMISSION TYPE:NEW ASSIGNMENTNATURE OF CONVEYANCE:ASSIGNMENT

CONVEYING PARTY DATA

| Name | Execution Date |
|---|----------------|
| KYOKO MIWA_SIGNED FOR BY TAKASHI SUZUKI | 12/01/2015 |
| HIRONORI EMARU | 11/23/2015 |
| YUKINORI SAKASHITA | 11/19/2015 |

RECEIVING PARTY DATA

| Name: | HITACHI, LTD. | |
|-------------------|-------------------------|--|
| Street Address: | 6-6, MARUNOUCHI 1-CHOME | |
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| City: | TOKYO | |
| State/Country: | JAPAN | |
| Postal Code: | 100-8280 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14896226 |

CORRESPONDENCE DATA

Fax Number: (215)568-6499

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Correspondent Name: GERALD B. HALT, JR. Address Line 1: VOLPE & KOENIG

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ATTORNEY DOCKET NUMBER: HITACHI2-341300893US01

NAME OF SUBMITTER: GERALD B. HALT, JR.

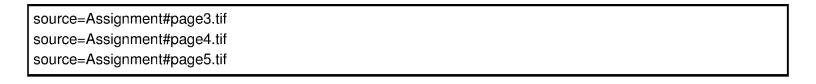
SIGNATURE: /Gerald B. Halt, Jr./

DATE SIGNED: 12/07/2015

Total Attachments: 5

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PATENT 503598591 REEL: 037221 FRAME: 0036



PATENT REEL: 037221 FRAME: 0037 Doc code: Oath

Document Description: Oath or declaration filed

PTO/AIA/02 (07-13)
Approved for use through 04/30/2017. OMB 0651-0032
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SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)

| Title of Invention | MANAGEMENT COMPUTER A | ND COMPUTER SYST | EM |
|---|---|-------------------------|----------------------------|
| This stateme | ent is directed to: | | |
| The att | ached application, | ٠ | |
| OR | | | |
| United States application or PCT international application number 14/896,226 filed on December 4, 2015 | | | |
| LEGAL NA | ME of inventor to whom this sul | stitute statement appli | ies: |
| | Name (first and middle (if any)) and F | amily Name or Surname) | |
| Kyoko 1 | MWA | | |
| Residence (| except for a deceased or legally incapa | acitated inventor): | |
| _{city} Nag | oya | Aichi | Country Japan |
| Mailing Address (except for a deceased or legally Incapacitated inventor): Grand heights Nakahira 302, Nakahira 5-1201-2, Tenpaku-ku, | | | |
| _{city} Nag | oya | _{State} Aichi | zip 468-0014 Country Japan |
| I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application. | | | |
| The above-identified application was made or authorized to be made by me. | | | |
| I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. | | | |
| Relationship to the inventor to whom this substitute statement applies: | | | |
| Legal Representative (for deceased or legally incapacitated inventor only), | | | |
| Assignee, | | | |
| Person to whom the inventor is under an obligation to assign, | | | |
| Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or | | | |
| Joint Inventor. | | | |
| | | | |

[Page 1 of 2]

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.83. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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SUBSTITUTE STATEMENT

| <u> </u> | | | |
|---|---|--|--|
| Circumstances permitting execution of this substitute statement: | | | |
| Inventor is deceased, | | | |
| Inventor is under legal incapacity, | | | |
| Inventor cannot be found or reached af | Inventor cannot be found or reached after diligent effort, or | | |
| Inventor has refused to execute the oat | h or declaration under 37 CFR | 1.63 | |
| If there are joint inventors, please check the app | ropriate box below: | | |
| An application data sheet under 37 CFI or is currently submitted. | R 1.76 (PTO/AIA/14 or equivale | ent) naming the entire | e inventive entity has been |
| OR | • | | |
| An application data sheet under 37 CF Statement Supplemental Sheet (PTO/A information is attached. See 37 CFR 1. | NA/11 or equivalent) naming th | ent) has not been su ne entire inventive en | omitted. Thus, a Substitute tity and providing inventor |
| | WARNING: | | |
| Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioner/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available. | | | |
| PERSON EXECUTING THIS SUBSTITUTE STAT | TEMENT: | | |
| _{Name:} Takashi Suzuki | | | 12/1/2015 Data (Optional): |
| Signature: Jahaslu Vi | suhr | _ | |
| APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT: | | | |
| If the applicant is a juristic entity, list the applicant name and the title of the signer: HITACHI, LTD. Applicant Name: | | | |
| Title of Person Executing This Substitute Statement: Corporate Officer, General Manager, Intellectual Property Division (Authorized Signing Officer) | | | |
| The signer, whose title is supplied above, is authorized to act on behalf of the applicant. | | | |
| Residence of the signer (unless provided in a | n application data sheet, PT0 | D/AIA/14 or equivale | ent): |
| _{city} Chiyoda | _{State} Tokyo (| Country | |
| Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent) c/o HITACHI, LTD., 6-6, Marunouchi 1-chome, | | | |
| city Chiyoda-ku | Tokyo State | 100-8280 | Country |
| Note: Use an additional PTO/AIA/02 form for each | | | cannot be found or reached |

[Page 2 of 2]

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

 The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.

A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to

opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4, A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as

amended, pursuant to 5 U.S.C. 552a(m).

 A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

 A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to

the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an

issued natent

A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential

violation of law or regulation.

PATENT REEL: 037221 FRAME: 0040

ASSIGNMENT

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to me, a citizen of Japan, by HITACHI, LTD. (hereinafter referred to as ASSIGNEE), a corporation organized under the laws of Japan, located at 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8280, Japan, receipt of which is hereby acknowledged I do hereby sell and assign to said ASSIGNEE, its successors and assigns, all my right, title and interest, in and for the United States of America, in and to application serial no. 14/896,226 _____, filed December 4, 2015 and entitled:

MANAGEMENT COMPUTER AND COMPUTER SYSTEM

invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, said interest being the entire ownership of said Letters Patent when granted, to be held and enjoyed by said ASSIGNEE, its successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

Whereby, I hereby grant the law firm of Volpe and Koenig, 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 United States Patent and Trademark Office for recordation of this document, including inserting the application serial number and filing date when known.

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said ASSIGNEE.

Signed on the date(s) indicated aside signatures:

INVENTOR

Date Signed

1)

Kyoko MIWA

2)

Hironori EMARU

1/ (23 (20 ())

Yukinori SAKASHITA

PATENT REEL: 037221 FRAME: 0041

ASSIGNMENT

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to me, a citizen of Japan, by HITACHI, LTD. (hereinafter referred to as ASSIGNEE), a corporation organized under the laws of Japan, located at 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8280, Japan, receipt of which is hereby acknowledged I do hereby sell and assign to said ASSIGNEE, its successors and assigns, all my right, title and interest, in and for the United States of America, in and to application serial no. 14/896,226 , filed December 4, 2015 and entitled:

MANAGEMENT COMPUTER AND COMPUTER SYSTEM

invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, said interest being the entire ownership of said Letters Patent when granted, to be held and enjoyed by said ASSIGNEE, its successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

Whereby, I hereby grant the law firm of Volpe and Koenig, 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 United States Patent and Trademark Office for recordation of this document, including inserting the application serial number and filing date when known.

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said ASSIGNEE.

Signed on the date(s) indicated aside signatures:

| INVENTOR | Date Signed |
|----------------------|-------------|
| I) Kyoko MIWA | |
| 2) Hironori EMARU | |
| 3) Bukingi Sakashita | 11/19/2015 |

PATENT REEL: 037221 FRAME: 0042

RECORDED: 12/07/2015