

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6828740

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	KATSUYUKI TAKASHIMA	06/28/2021
	TATSUAKI OKAMOTO	06/16/2021
	PRATISH DATTA	06/18/2021
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	MITSUBISHI ELECTRIC CORPORATION	
<b>Street Address:</b>	7-3, MARUNOUCHI 2-CHOME, CHIYODA-KU	
<b>City:</b>	TOKYO	
<b>State/Country:</b>	JAPAN	
<b>Postal Code:</b>	1008310	
<b>Name:</b>	NIPPON TELEGRAPH AND TELEPHONE CORPORATION	
<b>Street Address:</b>	5-1, OTEMACHI 1-CHOME, CHIYODA-KU	
<b>City:</b>	TOKYO	
<b>State/Country:</b>	JAPAN	
<b>Postal Code:</b>	100-8116	
<b>PROPERTY NUMBERS Total: 1</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	17382884	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(703)205-8050	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>		
<b>Phone:</b>	7032058000	
<b>Email:</b>	Lynn.T.Lam@bskb.com, mailroom@bskb.com	
<b>Correspondent Name:</b>	BIRCH STEWART KOLASCH & BIRCH LLP	
<b>Address Line 1:</b>	8110 GATEHOUSE ROAD, SUITE 100 EAST	
<b>Address Line 4:</b>	FALLS CHURCH, VIRGINIA 22042	
<b>ATTORNEY DOCKET NUMBER:</b>	2565-0735PUS1	
<b>NAME OF SUBMITTER:</b>	LYNN LAM	
<b>SIGNATURE:</b>	/lynn lam/	

<b>DATE SIGNED:</b>	07/23/2021
<b>Total Attachments: 12</b> source=2021-07-23_Declaration-And-Assignment_2565-0735PUS1#page1.tif source=2021-07-23_Declaration-And-Assignment_2565-0735PUS1#page2.tif source=2021-07-23_Declaration-And-Assignment_2565-0735PUS1#page3.tif source=2021-07-23_Declaration-And-Assignment_2565-0735PUS1#page4.tif source=2021-07-23_Declaration-And-Assignment_2565-0735PUS1#page5.tif source=2021-07-23_Declaration-And-Assignment_2565-0735PUS1#page6.tif source=2021-07-23_Declaration-And-Assignment_2565-0735PUS1#page7.tif source=2021-07-23_Declaration-And-Assignment_2565-0735PUS1#page8.tif source=2021-07-23_Declaration-And-Assignment_2565-0735PUS1#page9.tif source=2021-07-23_Declaration-And-Assignment_2565-0735PUS1#page10.tif source=2021-07-23_Declaration-And-Assignment_2565-0735PUS1#page11.tif source=2021-07-23_Declaration-And-Assignment_2565-0735PUS1#page12.tif	

**BIRCH, STEWART, KOLASCH & BIRCH, LLP**

8110 Gatehouse Road, Suite 100 East, Falls Church, VA 22042-1248

Telephone: (703) 205-8000 • Facsimile: (703) 205-8050 • Email: [mailroom@bskb.com](mailto:mailroom@bskb.com)電話: (703) 205-8000 • ファックス: (703) 205-8050 • 電子メール: [mailroom@bskb.com](mailto:mailroom@bskb.com)**DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS**

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

**特許および意匠出願の宣言書ならびに譲渡証**

米国特許権または米国およびその他の外国特許権

発明の名称 ⇒	Title of Invention ⇒	SIGNATURE DEVICE, VERIFICATION DEVICE, SIGNATURE METHOD, VERIFICATION METHOD, SIGNATURE PROGRAM, AND VERIFICATION PROGRAM  As a below named inventor, I hereby declare that:  This declaration is directed to the application attached hereto.
以下に記名された発明者として、私は以下の通り宣言します:  本宣言は本状に添付した出願書を対象としています。	Application not Attached ⇒	If the application is not attached hereto, the application is as identified by the attorney docket number as set forth above and/or the following:
添付していない出願書 ⇒	Enter Appln. No. ⇒	United States Application Number or PCT International Appln. No. <b>PCT/JP2019/047995</b>
添付していない出願書 ⇒	Enter Filing Date ⇒	filed on <b>December 09, 2019</b>
出願日を記入 ⇒	出願日	The above-identified application was made or authorized to be made by me.
上記の出願書は私が作成、もしくは承認しました。	私は、本出願で請求している発明について、私が最初かつ唯一の発明者、もしくは最初かつ共同発明者であると確信しています。	I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
私は、特許請求の範囲を含み、上記の出願書を検討し、内容を理解しています。	私は、連邦規則法典第 37 編第 1 条 56 項に定義されている、特許性の有無について重要な情報を開示する義務があることを認めます。	I have reviewed and understand the contents of the above-identified application, including the claims.
署名人は特定出願に記載された新規かつ有用な改良を発明しました。	Insert Name of Assignee ⇒	WHEREAS, <b>Mitsubishi Electric Corporation, and NIPPON TELEGRAPH AND TELEPHONE CORPORATION</b>
譲受人氏名を記入 ⇒	Insert Address of Assignee ⇒	of <b>7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008310 Japan, and 5-1, Otemachi 1-chome, Chiyoda-ku, Tokyo, 100-8116, Japan</b>
譲受人住所を記入 ⇒	譲受人の継承人、後継者、法定代理人、および被譲渡者 (以下譲受人という) は当該発明のすべての権利、所有権、利益ならびにアメリカ合衆国において同発明に付与された特許証をすべて取得することを希望しています。	its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and
該当する場合はボックスをチェック ⇒	Check Box if Appropriate ⇒	<input type="checkbox"/> <b>その他の外国における特許証取得希望。</b> <input type="checkbox"/> <b>in any foreign countries.</b>

従って、有価、有益な対価を約因とし、その受領を確認した上で、署名人は売却、譲渡、移転しており、本状により、同譲受人にアメリカ合衆国ならびにその領土、属領、属国における当該発明の完全かつ排他的権利およびアメリカ合衆国ならびにその領土、属領、属国において、さらに上記のボックスに指定がある場合は、その他すべての外国又は知的財産権の保護に関する国際条約ならびに類似の合意における、同発明、優先権ならびにその分割出願、再発行出願、継続出願、変更出願、延長出願に付与された特許証の満期にわたる、もしくは同上が付与された期間にわたるすべての権利、所有権、利益を売却、譲渡、移転します。

署名人は本願、ならびにその継続出願、分割出願、変更出願、再発行出願、延長出願に関連するすべての書類を履行することに同意し、譲受人が必要もしくは適切とみなす、これらの出願に関連して別途譲渡証を履行することにも同意します。

署名人は本願、もしくはその継続出願、分割出願、変更出願、再発行出願、または特許証、それに基つて再発行特許に関連して宣言される抵触に関する必要なすべての書類を履行することに同意し、証拠の取得、およびそのような抵触案件を進めるにあたり、あらゆる面において前記譲受人に協力することに同意します。

署名人はすべての用紙および書類を履行し、工業所有権保護条約の請求や規定、もしくは類似協定に関して必要なあらゆる行為を誠行することに同意します。

署名人は有効な米国特許ならびに外国の特許の承認を取得し、本状で前記譲受人に譲渡した同特許のすべての権利を完全かつ全面的に付与して、本譲渡および売却が行われていなければ、署名人が保持していたのと同様にするために必要なすべての積極的な行為を履行することに同意します。

署名人は米国ならびに外国の特許商標庁長官に前記出願、またはその継続出願、分割出願、変更出願、再発行出願から発生したすべての特許証を、すべての利益の譲受人としての前記譲受人に対して発行することを承認かつ請求し、本状で譲渡するすべての権利を譲るためのすべての権利を有し、対立関係にある協定を過去において履行したことがなく、将来において履行しないことを誓約します。

署名人は、米国特許庁の規定に従うために必要であれば、さらに確認事項を記入する権利を Birch, Stewart, Kolasch & Birch, LLP 法律事務所に付与します。

署名人は、本譲渡に対立する譲渡、売却、契約、債務が締結されたことがなく、今後締結されることがないここに誓約します。

署名人は、本宣言で故意に虚偽の表明を行うと、米国法典第 18 編第 1001 条に基づき、罰金または 5 年以下の拘禁、もしくはその両方の処罰対象になることをここに認識します。

以上の証として、署名人氏名欄の隣の日付をもって署名人が署名します。

発明者の法的な氏名

発明者氏名 ⇨ 発明者:

日付:

発明者署名 ⇨ 署名:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned has sold, assigned and transferred, and by these presents does (do) sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries; including all rights under the International Convention for the Protection of Industrial Property or similar agreements as well as the right to claim benefit from the priority of the above-mentioned application; and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agrees 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 agrees 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 agrees 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 agrees 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 authorizes and requests the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patent(s) 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 the full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grants the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

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

The undersigned hereby acknowledges that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

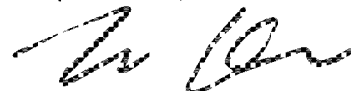
In witness whereof, executed by the undersigned on the date opposite the undersigned name.

LEGAL NAME OF INVENTOR

Inventor's ⇨ Inventor: Tatsuaki OKAMOTO  
Name

Date: June 16, 2021

Inventor's ⇨ Signature:  
Signature



出願データシート (PTO/SB/14 もしくは同等のもの) に発明企業の名称を含み、本状を添える必要があります。各発明者に付き個別の用紙を使用するか、下記のボックスをチェックして添付ページに記入し、追加の発明者をリストしてください。

☐ 追加の発明者は添付の補足シートに記されています。

An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use a separate form for each inventor; or check the box below and complete the attached page(s) to list additional inventors.

☐ Additional inventors are being named on the \_\_\_\_\_ supplemental sheet(s) attached hereto.

**STATEMENT OF ACCURATE TRANSLATION IN ACCORDANCE WITH 37 C.F.R. § 1.69(b):**

The DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS is an accurate translation of the corresponding English language DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS.

Signature: 

Date: 01/23/2019

**BIRCH, STEWART, KOLASCH & BIRCH, LLP**

8110 Gatehouse Road, Suite 100 East, Falls Church, VA 22042-1248

Telephone: (703) 205-8000 • Facsimile: (703) 205-8050 • Email: [mailroom@bskb.com](mailto:mailroom@bskb.com)電話: (703) 205-8000 • ファックス: (703) 205-8050 • 電子メール: [mailroom@bskb.com](mailto:mailroom@bskb.com)**DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS**

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添付していない出願書 ⇒	Enter Filing Date ⇒	filed on <b>December 09, 2019</b>
出願日を記入 ⇒	出願日	The above-identified application was made or authorized to be made by me.
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私は、特許請求の範囲を含み、上記の出願書を検討し、内容を理解しています。	私は、連邦規則法典第 37 編第 1 条 56 項に定義されている、特許性の有無について重要な情報を開示する義務があることを認めます。	I have reviewed and understand the contents of the above-identified application, including the claims.
署名人は特定出願に記載された新規かつ有用な改良を発明しました。	Insert Name of Assignee ⇒	WHEREAS, <b>Mitsubishi Electric Corporation, and NIPPON TELEGRAPH AND TELEPHONE CORPORATION</b>
譲受人氏名を記入 ⇒	Insert Address of Assignee ⇒	of <b>7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008310 Japan, and 5-1, Otemachi 1-chome, Chiyoda-ku, Tokyo, 100-8116, Japan</b>
譲受人住所を記入 ⇒	譲受人の継承人、後継者、法定代理人、および被譲渡者 (以下譲受人という) は当該発明のすべての権利、所有権、利益ならびにアメリカ合衆国において同発明に付与された特許証をすべて取得することを希望しています。	its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and
該当する場合はボックスをチェック ⇒	Check Box if Appropriate ⇒	<input type="checkbox"/> in any foreign countries.
<input type="checkbox"/> その他の外国における特許証取得希望。		

従って、有価、有益な対価を約因とし、その受領を確認した上で、署名人は売却、譲渡、移転しており、本状により、同譲受人にアメリカ合衆国ならびにその領土、属領、属国における当該発明の完全かつ排他的権利およびアメリカ合衆国ならびにその領土、属領、属国において、さらに上記のボックスに指定がある場合は、その他すべての外国又は知的財産権の保護に関する国際条約ならびに類似の合意における、同発明、優先権ならびにその分割出願、再発行出願、継続出願、変更出願、延長出願に付与された特許証の満期にわたる、もしくは同上が付与された期間にわたるすべての権利、所有権、利益を売却、譲渡、移転します。

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署名人は有効な米国特許ならびに外国の特許の承認を取得し、本状で前記譲受人に譲渡した同特許のすべての権利を完全かつ全面的に付与して、本譲渡および売却が行われていなければ、署名人が保持していたのと同様にするために必要なすべての積極的な行為を履行することに同意します。

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以上の証として、署名人氏名欄の隣の日付をもって署名人が署名します。

発明者の法的な氏名

発明者氏名 ⇨ 発明者:

日付:

発明者署名 ⇨ 署名:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned has sold, assigned and transferred, and by these presents does (do) sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries; including all rights under the International Convention for the Protection of Industrial Property or similar agreements as well as the right to claim benefit from the priority of the above-mentioned application; and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

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The undersigned agrees 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 authorizes and requests the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patent(s) 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 the full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grants the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

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

LEGAL NAME OF INVENTOR

Inventor's ⇨ Inventor: Pratish DATTA  
Name

Date: 06/18/2021

Inventor's ⇨  
Signature

Signature: *Pratish Datta*

出願データシート (PTO/SB/14 もしくは同等のもの) に発明企業の名称を含み、本状を添える必要があります。各発明者に付き個別の用紙を使用するか、下記のボックスをチェックして添付ページに記入し、追加の発明者をリストしてください。

☐ 追加の発明者は添付の補足シートに記されています。

An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use a separate form for each inventor; or check the box below and complete the attached page(s) to list additional inventors.

☐ Additional inventors are being named on the \_\_\_\_\_ supplemental sheet(s) attached hereto.

**STATEMENT OF ACCURATE TRANSLATION IN ACCORDANCE WITH 37 C.F.R. § 1.69(b):**

The DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS is an accurate translation of the corresponding English language DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS.

Signature: 

Date: 01/23/2019

**Mitsubishi Electric Corporation's comments for Substitute Statement**

The first inventor, Mr. Katsuyuki TAKASHIMA, who has already left Mitsubishi Electric Corporation cannot be found or reached after diligent effort. Therefore, we would like to submit a Substitute Statement instead of a Declaration and Assignment.

In another case of Mitsubishi Electric Corporation, we were pointed out by a US attorney that "a Substitute Statement is a substitute for a Declaration of Assignment, but it is not a substitute for an Assignment Certificate from an inventor to the company."

Since we do not have the Assignment Certificate for each invention, we have decided to submit an excerpt from our employment rules that describes the right to obtain a patent. Therefore, please file the attached excerpt from our rules of employment for employees (\*) in Japanese and its English translation in addition to the Substitute Statement.

(\*: Our rules of employment for employees are confidential documents, so only the relevant part is attached for submission.)

## 社員就業規則

(略)

### 第82条 (発明創作に伴う特許等を受ける権利の取扱い)

社員がした職務発明・創作についての特許等を受ける権利は、その発生した時から会社に帰属する。  
これに対する報奨その他の取扱いについては別に定めるところによる。

(略)

Rules of Employment for Employees

(omitted)

Article. 82 (Handling of Right to Obtain Patent, Etc. Arising as Result of Invention and Creation)

A right to obtain a patent, etc. for any invention or creation made by the employee in the course of his/her duties shall belong to the company at and from the time when it arises. Remuneration and other matters for handling thereof shall be as otherwise provided.

(omitted)

**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)**

<b>Title of Invention</b>	SIGNATURE DEVICE, VERIFICATION DEVICE, SIGNATURE METHOD, VERIFICATION METHOD, SIGNATURE PROGRAM, AND VERIFICATION PROGRAM		
This statement is directed to:  <input type="checkbox"/> The attached application,  OR  <input checked="" type="checkbox"/> United States application or PCT international application number <u>PCT/JP2019/047995</u> filed on <u>December 9, 2019</u> .			
<b>LEGAL NAME of inventor to whom this substitute statement applies:</b> (E.g., Given Name (first and middle (if any)) and Family Name or Surname) Katsuyuki TAKASHIMA			
Residence (except for a deceased or legally incapacitated inventor):			
Tokyo City		State	Japan Country
Mailing Address (except for a deceased or legally incapacitated inventor): c/o Mitsubishi Electric Corporation, 7-3, Marunouchi 2-chome, Chiyoda-ku			
Tokyo City		State	1008310 Zip
Japan Country			
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:  <input type="checkbox"/> Legal Representative (for deceased or legally incapacitated inventor only), <input type="checkbox"/> Assignee, <input checked="" type="checkbox"/> Person to whom the inventor is under an obligation to assign, <input type="checkbox"/> Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or <input type="checkbox"/> Joint Inventor.			

[Page 1 of 2]

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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.

**PATENT**  
**REEL: 056956 FRAME: 0647**

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**SUBSTITUTE STATEMENT**

Circumstances permitting execution of this substitute statement:

- ☐ Inventor is deceased,
- ☐ Inventor is under legal incapacity,
- ☒ Inventor cannot be found or reached after diligent effort, or
- ☐ Inventor has refused to execute the oath or declaration under 37 CFR 1.63.

If there are joint inventors, please check the appropriate box below:

- ☒ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.

OR

- ☐ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).

**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, petitioners/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 STATEMENT:**

Name: Jumei MATSUI	Date (Optional): June 28, 2021
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Signature: / Jumei MATSUI /

**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:

Mitsubishi Electric Corporation

Applicant Name:

Title of Person Executing This Substitute Statement: General Manager, Patent Administration Department

The signer, whose title is supplied above, is authorized to act on behalf of the applicant.

**Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):**

City Tokyo	State	Country Japan
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**Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)**

7-3, Marunouchi 2-chome, Chiyoda-ku

City Tokyo	State	Zip 1008310	Country Japan
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Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.

## 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:

1. 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.
2. 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).
5. 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.
6. 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 patent.
9. 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.