

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7230488

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the 1ST AND 7TH INVENTORS DATA, WHICH ARE CORRECTED ON THE ATTACHED NEWLY EXECUTED ASSIGNMENT AGREEMENTS, previously recorded on Reel 056507 Frame 0320. Assignor(s) hereby confirms the ORIGINAL EXECUTED ASSIGNMENT AGREEMENT FOR THE 1ST AND 7TH INVENTORS NAMES WERE MISPELLED..

CONVEYING PARTY DATA

Name	Execution Date
JUNJI ISHII	03/01/2022
SHINGO MURAKAMI	08/31/2018
HIROYUKI TANAKA	08/31/2018
TAKAHIRO KAMATA	09/26/2014
TOSHIAKI TERAU	08/31/2018
MASAYA YUKINOBU	08/31/2018
YUJI WATANABE	02/25/2022
TSUTOMU TANIMITSU	08/10/2018
YOSHIYUKI KUNIFUSA	08/20/2018
HARUO N NISHIYAMA	08/21/2018

RECEIVING PARTY DATA

Name:	SUMITOMO METAL MINING CO., LTD.
Street Address:	5-11-3, SHIMBASHI, MINATO-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	1058716
Name:	MURATA MANUFACTURING CO., LTD.
Street Address:	10-1, HIGASHIKOTARI 1-CHOME, NAGAOKAKYO-SHI
City:	KYOTO
State/Country:	JAPAN
Postal Code:	6178555

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16085148

CORRESPONDENCE DATA

PATENT

Fax Number: (212)940-8986

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.

Phone: 212-940-8800

Email: nycuspto@katten.com

Correspondent Name: KATTEN MUCHIN ROSENMAN LLP

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Address Line 2: 15TH FLOOR, IP DEPT.

Address Line 4: NEW YORK, NEW YORK 10022-2585

ATTORNEY DOCKET NUMBER:	KAM 26.079(100799-00240)
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NAME OF SUBMITTER:	SATNARINE SEONARAIN
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SIGNATURE:	/Satnarine Seonarain/
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DATE SIGNED:	03/17/2022
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Total Attachments: 14

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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT6756832

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JUNJI ISHII	08/31/2018
SHINGO MURAKAMI	08/31/2018
HIROYUKI TANAKA	08/31/2018
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YUJI WATANABE	08/10/2018
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YOSHIYUKI KUNIFUSA	08/20/2018
HARUO NISHIYAMA	08/21/2018

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Phone: 2129408800

COMBINED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	NICKEL POWDER, METHOD FOR MANUFACTURING NICKEL POWDER, INTERNAL ELECTRODE PASTE USING NICKEL POWDER, AND ELECTRONIC COMPONENT
<p>As the below named inventor, I hereby declare that:</p> <p>This declaration is directed to: <input type="checkbox"/> The attached application, or <input checked="" type="checkbox"/> United States application or PCT international application number <u>16/085,148</u> filed on <u>September 14, 2018</u></p> <p>The above-identified application was made or authorized to be made by me.</p> <p>I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.</p> <p>I hereby acknowledge 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.</p> <p>In consideration of One Dollar (\$1.00) and other valuable consideration, the receipt and adequacy of which are hereby acknowledged, I hereby assign, convey, transfer, deliver, set over and vest to and in</p> <p style="text-align: center;">SUMITOMO METAL MINING CO., LTD. and MURATA MANUFACTURING CO., LTD.</p> <p style="text-align: right;">■</p> <p>a corporation of <u>JAPAN and JAPAN</u> having a place of business at:</p> <p style="text-align: center;">5-11-3. SHIMBASHI. MINATO-KU, TOKYO 1058716, JAPAN and 10-1 HIGASHIKOTARI 1-CHOME, NAGAKAKYO-SHI, KYOTO 6178555, JAPAN</p> <p>its successors and assigns, absolutely and forever, my entire right, title and interest in and to the invention listed above, together with the Application, any and all Patents that may issue in the United States, and any reissues, renewals, continuations, continuation-in-parts, divisionals or extensions thereof that may be issued or granted, and all right, title and interest to the inventions contained in said Patents and Applications, for the United States, and all the rights and privileges relating thereto including but not limited to the priority rights arising from said Applications, the right to recover and take all such proceedings as may be necessary for the recovery of damages or otherwise in respect of past, present and future infringement, and the right to apply for, take and maintain patents on said inventions.</p>	
LEGAL NAME OF INVENTOR	
Inventor: <u>Junji ISHII</u>	Date: <u>March 1, 2022</u>
Signature: <u>Junji Ishii</u>	
<p>Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional form for each additional inventor.</p>	

Attorney Docket:

**COMBINED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR
UTILITY OR DESIGN APPLICATION USING AN APPLICATION**

Title of
Invention

NICKEL POWDER, METHOD FOR MANUFACTURING NICKEL POWDER,
INTERNAL ELECTRODE PASTE USING NICKEL POWDER, AND ELECTRONIC
COMPONENT

As the below named inventor, I hereby declare that:

This declaration
is directed to:

The attached application, or

PCT/JP2017/010134

United States application or PCT international application number
filed on March 14th, 2017

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge 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.

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which are hereby acknowledged, I hereby assign, convey, transfer, deliver, set over and vest to and in

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a corporation of JAPAN and JAPAN
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10-1, HIGASHIKOTARI 1-CHOME, NAGAOKAKYO-SHI, KYOTO 6178555, JAPAN

its successors and assigns, absolutely and forever, my entire right, title and interest in and to the invention
listed above, together with the Application, any and all Patents that may issue in the United States, and any
reissues, renewals, continuations, continuation-in-parts, divisionals or extensions thereof that may be issued
or granted, and all right, title and interest to the inventions contained in said Patents and Applications, for the
United States, and all the rights and privileges relating thereto including but not limited to the priority rights
arising from said Applications, the right to recover and take all such proceedings as may be necessary for the
recovery of damages or otherwise in respect of past, present and future infringement, and the right to apply
for, take and maintain patents on said inventions.

LEGAL NAME OF INVENTOR

Inventor: MURAKAMI Shingo

Date: August 31, 2018

Signature: Murakami Shingo

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must
accompany this form. Use an additional form for each additional inventor.

84625460v1

Attorney Docket:

**COMBINED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR
UTILITY OR DESIGN APPLICATION USING AN APPLICATION**

Title of Invention	NICKEL POWDER, METHOD FOR MANUFACTURING NICKEL POWDER, INTERNAL ELECTRODE PASTE USING NICKEL POWDER, AND ELECTRONIC COMPONENT
As the below named inventor, I hereby declare that:	
This declaration is directed to:	
<input type="checkbox"/> The attached application, or	
<input checked="" type="checkbox"/> United States application or PCT international application number <u>PCT/JP2017/010134</u> filed on <u>March 14th, 2017</u>	
The above-identified application was made or authorized to be made by me.	
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.	
I hereby acknowledge 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 consideration of One Dollar (\$1.00) and other valuable consideration, the receipt and adequacy of which are hereby acknowledged, I hereby assign, convey, transfer, deliver, set over and vest to and in SUMITOMO METAL MINING CO., LTD. and MURATA MANUFACTURING CO., LTD. a corporation of <u>JAPAN and JAPAN</u> having a place of business at: <u>5-11-3, SHIMBASHI, MINATO-KU, TOKYO 1058716, JAPAN and 10-1, HIGASHIKOTARI 1-CHOME, NAGAOKAKYO-SHI, KYOTO 6178555, JAPAN</u> its successors and assigns, absolutely and forever, my entire right, title and interest in and to the invention listed above, together with the Application, any and all Patents that may issue in the United States, and any reissues, renewals, continuations, continuation-in-parts, divisionals or extensions thereof that may be issued or granted, and all right, title and interest to the inventions contained in said Patents and Applications, for the United States, and all the rights and privileges relating thereto including but not limited to the priority rights arising from said Applications, the right to recover and take all such proceedings as may be necessary for the recovery of damages or otherwise in respect of past, present and future infringement, and the right to apply for, take and maintain patents on said inventions.	
LEGAL NAME OF INVENTOR	
Inventor:	<u>TANAKA Hiroyuki</u> Date: <u>August 31, 2018</u>
Signature:	<u>Hiroyuki Tanaka</u>
Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional form for each additional inventor.	

84625460v1

Inventorship Statement [Reference Mode]

Message	History	Update Log	File	Show Form	Show Gazette	Export Record	Export Longer Sheet	Inventor Evaluation	Merge Bibliography	Related Flow List	
Review	Save	Cancel	Registration	Approval							
Current Status	Show History	Last Processed on	Completed	Current Holder							
Final Disposal/Final Disposal (Application)		Director of Intellectual Property Department	[2016/03/23]	P. Dep. Masaya MATSUDA							
Reference Number	14-00559 JP-0	Reference Number of Patent Attorney's Office	SMK-2117	Status	Grant						
Name of the Invention	NICKEL POWDER, MANUFACTURING METHOD OF NICKEL POWDER, AND INTERNAL ELECTRODE PASTE AND ELECTRONIC COMPONENTS USING NICKEL POWDER										
Request Response	Request from Attorney (if existed)	Basic Concept	In-house Information	Information	Bibliography	Medical	Prosecution History	In-house Due	Foreign Application	Amend	Payment

Inventorship Statement

To: Sumitomo Metal Mining Co., Ltd.

We, who are listed in the column for inventors below, shall notify SMM as follows regarding the inventions, devices and designs (hereinafter referred to as "inventions, etc.") described in the attached specification.

We confirm that SMM acquires all rights related to the following inventions, etc. by law or by assignment to SMM.

Proposed Number	201408-0072	Proposed Date	2014/09/25
Name of the Invention	NICKEL POWDER, MANUFACTURING METHOD OF NICKEL POWDER, AND INTERNAL ELECTRODE PASTE AND ELECTRONIC COMPONENTS USING NICKEL POWDER		
Abstract	<p>Abstract: Process to be solved: To provide a fine nickel powder for an internal electrode paste of an electronic component, the nickel powder obtained by a wet method and having high crystallinity, excellent sintering characteristics, and heat-shrinking characteristics. (Solution) A manufacturing method of nickel powder comprising a crystallization process to obtain nickel crystallization powder by precipitating nickel by a reduction reaction in a reaction solution including at least water-soluble nickel salt, metal salt of metal that is nobler than nickel, hydrazine as a reducing agent, and metal hydroxide as a pH-adjusting agent, and water; the reaction solution prepared by mixing a nickel salt solution including the water-soluble nickel salt and the metal salt of metal that is nobler than nickel with a mixed reducing agent solution including the hydrazine and the alkali metal hydroxide; the hydrazine additionally added to the reaction solution after a reduction reaction initiates in the reaction solution. The amount of nickel hydrazine being formulated in the reducing agent solution is in a range of 0.25 ~ 1.2 wt. a molar ratio to nickel, and the amount of additional hydrazine being additionally added to the reaction solution is in a range of 1.0 to 5.2 at a molar ratio to nickel.</p>		

In-house Inventors				
No.	Name	Rate of Contribution	Department	Date Confirmed
0001	Masaya YUKINOBU	5.0	Nilhama Laboratories, other	2014/09/24
0002	Toshiaki TERAO	5.0	Suniko Toshino-Research	2014/09/24
0003	Shingo MURAKAMI	20.0	Powder Material	2014/09/24
0004	Takafumi KAMATA	10.0	Retired	2014/09/24
0005	Hiroyuki TANAKA	25.0	Material Laboratories	2014/09/24
0006	Junji ISHII	35.0	Material Laboratories	2014/09/24

Affiliates and Other Companies Inventors				
No.	Name	Company		
0001	Yuji WATANABE	Murata Manufacturing Co., Ltd.		
0002	Tsutomu TANIMITSU	Murata Manufacturing Co., Ltd.		
0003	Yoshiyuki KUNIFUSA	Murata Manufacturing Co., Ltd.		
0004	Haruo NISHIYAMA	Murata Manufacturing Co., Ltd.		

For inventions proposed before June 30, 2016, "Inventorship Statement" is read as "assignment", and "We, who are listed in the column for inventors below, shall notify SMM as follows regarding the inventions, devices and designs (hereinafter referred to as "inventions, etc.") described in the attached specification. We confirm that SMM acquires all rights related to the following inventions by law or by assignment to SMM." is read as "All the rights to obtain patents, utility models, and design registrations for the following inventions, ideas, and design creations have been transferred to SMM in accordance SMM's regulations."

発明届出【多項モード】

発明の名称 ニッケル粉末、ニッケル粉末の製造方法、およびニッケル粉末を原料とする電極シートを有する電子部品	発明の分類 H01G 23/02	発明の分野 【2014/03/25】	発明の種別 特許
発明番号 14-00559 JP-C	特許申請の発明番号 594-2117	状態 公開	

発明届出書

生石会館株式会社 様
下記の特許情報に記載の発明（特許）は、特許情報記載の発明（発明）の権利（専有・独占の権利（以下「発明権」という））について、下記のとおり届出ます。
発明が、下記の特許情報に関する全ての権利を、法的定めにより、または当社に対する譲渡により、取得することを希望します。

発明番号	201409-0092	発明日	2014/09/26
名称	ニッケル粉末、ニッケル粉末の製造方法、およびニッケル粉末を用いた電極シートを有する電子部品		
概要	【要約】【課題】電子部品用の電極ペーストに用いられ、かつ、適式により増大するニッケル粉末によって、高い性能を有し、かつ、適切な発熱特性および適切な導電性を確保し、複数のニッケル粉末を提供する。【解決手段】少なくとも水溶性ニッケル塩、ニッケルより異なる金属の塩、還元剤としてのヒドランジン、および有機配位剤としてのアルキル金錯体と水とを含有する反応液中において、還元反応によりニッケルを析出させてニッケル粉が析出する場において、反応液を、水溶性ニッケル塩とニッケルより異なる金属の塩を含有するニッケル塩溶液と、ヒドランジンとアルキル金錯体とを含有する溶液とを混合して使用し、反応液中に於いて還元反応が開始した後、反応液にさらに還元剤とヒドランジンを追加投入する。反応液を還元剤とヒドランジンとを、ニッケルに対するモル比で0.05〜1.0の範囲とし、かつ、還元剤の濃度を調整される濃度のヒドランジンを含む、ニッケルに対するモル比で1.0〜3.0の範囲とする。これにより、得られる電子部材を有し、平均粒径が0.05 μm〜0.5 μmで、比表面積が3.0 cm ² /g〜8.0 cm ² /g、空隙率が0.02未満以下		

No	氏名	専有権	所属会社	発出日	権利料
0001	行延隆也	5.0	新研その他	2014/09/26	
0002	寺尾道徳	5.0	住友テクノリサーチ	2014/09/26	
0003	村上隆徳	20.0	住友材料	2014/09/26	
0004	渡田隆弘	10.0	住友	2014/09/26	
0005	田中宏幸	25.0	住友材料	2014/09/26	
0006	山井悠志	35.0	住友材料	2014/09/26	

No	氏名	所属会社
0001	渡辺孝二	株式会社村田製作所
0002	谷光六	株式会社村田製作所
0003	藤岡義之	株式会社村田製作所
0004	西山悠磨	株式会社村田製作所

2019年6月30日以前に発出された発明届出書については「発明届出書」を「特許届出書」と、「下記の特許情報に記載の発明（特許）は、特許情報記載の発明（発明）の権利（専有・独占の権利（以下「発明権」という））について、下記のとおり届出ます。発明が、下記の特許情報に関する全ての権利を、法的定めにより、または当社に対する譲渡により、取得することを希望します。」は、「下記の特許情報（発明・発明の権利）に関する特許（発明権）の譲渡を受ける権利を、発明の権利に限り当社に譲渡した後に取得するものと、」とさせていただきます。

Attorney Docket:

**COMBINED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR
UTILITY OR DESIGN APPLICATION USING AN APPLICATION**

Title of
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NICKEL POWDER, METHOD FOR MANUFACTURING NICKEL POWDER,
INTERNAL ELECTRODE PASTE USING NICKEL POWDER, AND ELECTRONIC
COMPONENT

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This declaration
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The attached application, or

PCT/JP2017/010134

United States application or PCT international application number _____
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MURATA MANUFACTURING CO., LTD.**

a corporation of JAPAN and JAPAN

having a place of business at:

5-11-3, SHIMBASHI, MINATO-KU, TOKYO 1058716, JAPAN and

10-1, HIGASHIKOTARI 1-CHOME, NAGAOKAKYO-SHI, KYOTO 6178555, JAPAN

its successors and assigns, absolutely and forever, my entire right, title and interest in and to the invention
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recovery of damages or otherwise in respect of past, present and future infringement, and the right to apply
for, take and maintain patents on said inventions.

LEGAL NAME OF INVENTOR

Inventor: TERAO Toshiaki

Date: August 31, 2018

Signature: Toshiaki Terao

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must
accompany this form. Use an additional form for each additional inventor.

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LEGAL NAME OF INVENTOR

Inventor: YUKINOBU Masaya

Date: August 31, 2018

Signature: Masaya Yukinobu

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional form for each additional inventor.

84625460v1

COMBINED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

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10-1, HIGASHIKOTARI 1-CHOME, NAGAOKAKYO-SHI, KYOTO 6178555, JAPAN

its successors and assigns, absolutely and forever, my entire right, title and interest in and to the invention listed above, together with the Application, any and all Patents that may issue in the United States, and any reissues, renewals, continuations, continuation-in-parts, divisionals or extensions thereof that may be issued or granted, and all right, title and interest to the inventions contained in said Patents and Applications, for the United States, and all the rights and privileges relating thereto including but not limited to the priority rights arising from said Applications, the right to recover and take all such proceedings as may be necessary for the recovery of damages or otherwise in respect of past, present and future infringement, and the right to apply for, take and maintain patents on said inventions.

LEGAL NAME OF INVENTOR

Inventor: Yuji WATANABE

Date: February 25 2022

Signature: /Yuji Watanabe/

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional form for each additional inventor.

Attorney Docket:

**COMBINED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR
UTILITY OR DESIGN APPLICATION USING AN APPLICATION**

Title of Invention	NICKEL POWDER, METHOD FOR MANUFACTURING NICKEL POWDER, INTERNAL ELECTRODE PASTE USING NICKEL POWDER, AND ELECTRONIC COMPONENT
<p>As the below named inventor, I hereby declare that:</p> <p>This declaration is directed to: <input type="checkbox"/> The attached application, or PCT/JP2017/010134 <input checked="" type="checkbox"/> United States application or PCT international application number _____ filed on <u>March 14th, 2017</u></p> <p>The above-identified application was made or authorized to be made by me.</p> <p>I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.</p> <p>I hereby acknowledge 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.</p> <p>In consideration of One Dollar (\$1.00) and other valuable consideration, the receipt and adequacy of which are hereby acknowledged, I hereby assign, convey, transfer, deliver, set over and vest to and in SUMITOMO METAL MINING CO., LTD. and MURATA MANUFACTURING CO., LTD. a corporation of <u>JAPAN and JAPAN</u> having a place of business at: <u>5-11-3, SHIMBASHI, MINATO-KU, TOKYO 1058716, JAPAN and 10-1, HIGASHIKOTARI 1-CHOME, NAGAOKAKYO-SHI, KYOTO 6178555, JAPAN</u> its successors and assigns, absolutely and forever, my entire right, title and interest in and to the invention listed above, together with the Application, any and all Patents that may issue in the United States, and any reissues, renewals, continuations, continuation-in-parts, divisionals or extensions thereof that may be issued or granted, and all right, title and interest to the inventions contained in said Patents and Applications, for the United States, and all the rights and privileges relating thereto including but not limited to the priority rights arising from said Applications, the right to recover and take all such proceedings as may be necessary for the recovery of damages or otherwise in respect of past, present and future infringement, and the right to apply for, take and maintain patents on said inventions.</p>	
<p>LEGAL NAME OF INVENTOR</p> <p>Inventor: <u>TANIMITSU Tsutomu</u> Date: <u>10 August, 2018</u></p> <p>Signature: <u>TANIMITSU Tsutomu</u></p>	
<p>Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional form for each additional inventor.</p>	

84625460v1

Attorney Docket:

**COMBINED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR
UTILITY OR DESIGN APPLICATION USING AN APPLICATION**

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<p>LEGAL NAME OF INVENTOR</p> <p>Inventor: <u>KUNIFUSAYoshiyuki</u> Date: <u>20 August, 2018</u></p> <p>Signature: <u>KUNIFUSA Yoshiyuki</u></p>	
<p>Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional form for each additional inventor.</p>	

84625460v1

Attorney Docket:

**COMBINED DECLARATION and ASSIGNMENT (37 CFR 1.63) FOR
UTILITY OR DESIGN APPLICATION USING AN APPLICATION**

Title of Invention	NICKEL POWDER, METHOD FOR MANUFACTURING NICKEL POWDER, INTERNAL ELECTRODE PASTE USING NICKEL POWDER, AND ELECTRONIC COMPONENT
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As the below named inventor, I hereby declare that:

This declaration is directed to: The attached application, or
 United States application or PCT international application number PCT/JP2017/010134
filed on March 14th, 2017

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

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In consideration of One Dollar (\$1.00) and other valuable consideration, the receipt and adequacy of which are hereby acknowledged, I hereby assign, convey, transfer, deliver, set over and vest to and in

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a corporation of JAPAN and JAPAN
having a place of business at:

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LEGAL NAME OF INVENTOR

Inventor: NISHIYAMA Haruo

Date: 21 August, 2018

Signature: NISHIYAMA Haruo

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional form for each additional inventor.

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