#### 503115715 12/24/2014

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT3162323

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
KEITARO TAMURA	12/04/2014
YASUYUKI FUJII	12/04/2014
YOSHIO ITSUMI	12/04/2014
HIDETO OYAMA	12/04/2014

#### **RECEIVING PARTY DATA**

Name:	KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.)
Street Address:	2-4, WAKINOHAMA-KAIGANDORI 2-CHOME, CHUO-KU, KOBE-SHI
City:	HYOGO
State/Country:	JAPAN
Postal Code:	651-8585

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	29513034

#### **CORRESPONDENCE DATA**

Fax Number: (703)413-2220

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.

(703) 413-3000 Phone: Email: jvang@oblon.com **Correspondent Name:** OBLON, SPIVAK, ET AL. Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	446336US41DES
NAME OF SUBMITTER:	CHAI VANG
SIGNATURE:	/Chai Vang/
DATE SIGNED:	12/24/2014
	This document serves as an Oath/Declaration (37 CFR 1.63).

#### **Total Attachments: 4**

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source=446336USAssignment#page3.tif source=446336USAssignment#page4.tif

Title of Invention	Heat exchanger tube	
As the below name	d inventor, I hereby declare that:	
This declaration 🗵	The attached application, or	
is directed to:	United States application or PCT international a filed on	pplication number
The above-identifie	ed application was made or authorized to be made	by me.
I believe that I am t	the original inventor or an original joint inventor o	f a claimed invention in the application.
(hereinafter referre Chuo-ku, Kobe-shi invention and in a	bushiki Kaisha Kobe Seiko Sho (Kobe Steel, Ltd.) and to as "ASSIGNEE") having places of busines Hyogo, 651-8585 Japan, is desirous of acquiring and to any Letters Patent that may be granted that any and all foreign countries;	g the entire right, title and interest in and to said
acknowledged, and said ASSIGNEE, the and in all foreign cother relevant Inter- interest in and to a	FORE, in consideration of the sum of FIVE DOI for other good and valuable consideration, I, by the full and exclusive right to the said invention in ountries (including the right to claim priority undernational Treaties and Arrangements from the aformy and all Letters Patent which may be granted a any and all foreign countries and in and to exewals thereof.	these presents do sell, assign and transfer unto the United States and its territorial possessions or the terms of the International Convention and resaid application) and the entire right, title and therefor in the United States and its territorial
any and all foreign assignee of my enti (his) successors an	ize and request the Patent Office Officials in the land countries to issue any and all of said Letters Paire right, title and interest in and to the same, for a dassigns, to the full end of the term for which says would have been held by me had this Assignment	atent, when granted, to said ASSIGNEE as the the sole use and behoof of said ASSIGNEE, its aid Letters Patent may be granted, as fully and
Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.		
	veledge that any willful false statement made in this ment of not more than five (5) years, or both.	declaration is punishable under 18 U.S.C. 1001
LEGAL NAME OF	FINVENTOR	
Inventor: Keita	aro TAMURA	Date: December 4, 2014
Signature: (1)	木丁 · 支太包B	

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P.

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

Interest Invention	Heat exchanger tube
As the below name	d inventor, I hereby declare that:
	The attached application, or
is directed to:	United States application or PCT international application number filed on
The above-identifie	ed application was made or authorized to be made by me.
I believe that I am t	the original inventor or an original joint inventor of a claimed invention in the application.
(hereinafter referre Chuo-ku, Kobe-shi invention and in a	bushiki Kaisha Kobe Seiko Sho (Kobe Steel, Ltd.) d to as "ASSIGNEE") having places of business at: 2-4, Wakinohama-Kaigandori 2-chome, Hyogo, 651-8585 Japan, is desirous of acquiring the entire right, title and interest in and to said not to any Letters Patent that may be granted therefore in the United States and its territorial any and all foreign countries;
acknowledged, and said ASSIGNEE, the and in all foreign cother relevant Inter- interest in and to a	FORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby for other good and valuable consideration, I, by these presents do sell, assign and transfer unto he full and exclusive right to the said invention in the United States and its territorial possessions ountries (including the right to claim priority under the terms of the International Convention and mational Treaties and Arrangements from the aforesaid application) and the entire right, title and any and all Letters Patent which may be granted therefor in the United States and its territorial any and all foreign countries and in and to any and all divisions, reissues, continuations, mewals thereof.
any and all foreign assignee of my enti (his) successors an	ze and request the Patent Office Officials in the United States and its territorial possessions and countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the ire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its d assigns, to the full end of the term for which said Letters Patent may be granted, as fully and a would have been held by me had this Assignment and sale not been made.
Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.	
	reledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 ment of not more than five (5) years, or both.
LEGAL NAME OF	FINVENTOR
Inventor: Yasu	yuki FUJII Date: December 4, 2014
Signature:	を井康之

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P.

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

Title of Invention	Heat exchanger tube
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is directed to:	United States application or PCT international application number tiled on
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	reledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 ment of not more than five (5) years, or both.
LEGAL NAME OF	FINVENTOR
Inventor: Yosh	io ITSUMI Date: December 4, 2014
Signature:	<b></b>

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

Invention	Heat exchanger tube
As the below name	d inventor, I hereby declare that:
This declaration 🗵	The attached application, or
is directed to:	United States application or PCT international application number filed on
The above-identifie	ed application was made or authorized to be made by me.
I believe that I am t	the original inventor or an original joint inventor of a claimed invention in the application.
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any and all foreign assignee of my enti (his) successors and	ize and request the Patent Office Officials in the United States and its territorial possessions and a countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the ire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its d assigns, to the full end of the term for which said Letters Patent may be granted, as fully and a would have been held by me had this Assignment and sale not been made.
respecting said in continuation, substiall of said Letters possible to aid said	that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me vention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, itute, renewal and reissue applications, execute all necessary assignment papers to cause any and Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything d ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said ited States and its territorial possessions and in any and all foreign countries.
	vledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 ment of not more than five (5) years, or both.
LEGAL NAME OF	FINVENTOR
Inventor: Hide	to OYAMA Date: December 4, 2014
Signature:	大山连人

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P.

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

> PATENT REEL: 034584 FRAME: 0563

**RECORDED: 12/24/2014**