503480235 09/15/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3526860

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TAKAHIRO IZUMI	07/23/2015
SHIMPEI KIMURA	07/23/2015
YUJI SHIBUYA	07/23/2015
SHOEI TESHIMA	07/10/2015
HAYAKI TERAMOTO	07/10/2015
OSAMU HAKAMATA	07/17/2015

RECEIVING PARTY DATA

Name:	KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.)
Street Address:	2-4, WAKINOHAMA-KAIGANDORI 2-CHOME, CHUO-KU
City:	KOBE-SHI, HYOGO
State/Country:	JAPAN
Postal Code:	651-8585
Name:	DENSO CORPORATION
Name: Street Address:	DENSO CORPORATION 1-1, SHOWA-CHO, KARIYA-SHI
Street Address:	1-1, SHOWA-CHO, KARIYA-SHI

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14777137

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.

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

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	459565US99X PCT
NAME OF SUBMITTER:	TERRY EVANS
SIGNATURE:	/TERRY EVANS/
DATE SIGNED:	09/15/2015
Total Attachments: 6 source=459565USAssignment#page	

source=459565USAssignment#page1.tif source=459565USAssignment#page2.tif source=459565USAssignment#page3.tif source=459565USAssignment#page4.tif source=459565USAssignment#page5.tif

source = 459565 USAs signment # page 6.t if

Title of Invention	BRAZED STRUCTURE
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 PCT/JP2014/058138 filed on March 24, 2014
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.
)KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.) 2) DENSO CORPORATION
Chuo-ku, Kobe-shi of acquiring the en	d to as "ASSIGNEE") having places of business at: 1) 2-4, Wakinohama-Kaigandori 2-chome, Hyogo 651-8585 Japan, and 2) 1-1, Showa-cho, Kariya-shi, Aichi 448-8661, Japan, is desirous tire right, title and interest in and to said invention and in and to any Letters Patent that may be the United States and its territorial possessions and in any and all foreign countries;
acknowledged, and said ASSIGNEE, the and in all foreign conther 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 me full and exclusive right to the said invention in the United States and its territorial possessions countries (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 my 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, newals thereof.
any and all foreign assignee of my enti (his) successors and	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.
respecting said inv continuation, substi all 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, tute, 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 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.
	rledge 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	INVENTOR
Inventor: Takahir Signature:	O IZUMI Date: July 23, 2015

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

Invention	BRAZED STRUCTURE
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 PCT/JP2014/058138 filed on March 24, 2014
The above-identifie	ed application was made or authorized to be made by me.
I believe that I am t	he original inventor or an original joint inventor of a claimed invention in the application.
and)KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.) 2) DENSO CORPORATION
Chuo-ku, Kobe-shi of acquiring the en	d to as "ASSIGNEE") having places of business at: 1) 2-4, Wakinohama-Kaigandori 2-chome, Hyogo 651-8585 Japan, and 2) 1-1, Showa-cho, Kariya-shi, Aichi 448-8661, Japan, is desirous tire right, title and interest in and to said invention and in and to any Letters Patent that may be the United States and its territorial possessions and in any and all foreign countries;
acknowledged, and said ASSIGNEE, the and in all foreign coother 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 ne 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 national Treaties and Arrangements from the aforesaid application) and the entire right, title and my 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, newals thereof.
any and all foreign assignee of my enti (his) successors and	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 re 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 inv continuation, substi all 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, tute, 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 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.
	ledge 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	INVENTOR
Inventor: Shimpe	i KIMURA Date: July 23, 2015
Signature:	LA PÀ

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

Title of Invention	DDAGED	CMDICMIDE		
		STRUCTURE		
	d inventor, I hereby de			
This declaration	The attached application	ation, or		
is directed to:	United States applic filed on March 24	ation or PCT international app, 2014	lication number PCT/	/JP2014/058138
The above-identifie	d application was mad	de or authorized to be made by	me.	
I believe that I am t	he original inventor of	r an original joint inventor of a	claimed invention in t	the application.
and	2) DENSO CORPOR			
Chuo-ku, Kobe-shi of acquiring the en	<u>Hyogo 651-8585 Jar</u> tire right, title and int	having places of business at: ban, and 2) 1-1, Showa-cho, Keerest in and to said invention lits territorial possessions and	ariya-shi, Aichi 448-86 and in and to any Lett	661, Japan, is desirous ters Patent that may be
acknowledged, and said ASSIGNEE, the and in all foreign contact of the relevant Inter- interest in and to a	for other good and vote full and exclusive reputries (including the national Treaties and my and all Letters Paany and all foreign	on of the sum of FIVE DOLI aluable consideration, I, by the light to the said invention in the right to claim priority under the Arrangements from the aforestent which may be granted the countries and in and to any	ese presents do sell, a e United States and its the terms of the International application) and the erefor in the United S	ssign and transfer unto s territorial possessions ational Convention and ne entire right, title and States and its territorial
any and all foreign assignee of my enti (his) successors and	countries to issue an re right, title and inte d assigns, to the full of	tent Office Officials in the Unity and all of said Letters Pate rest in and to the same, for the end of the term for which said by me had this Assignment a	nt, when granted, to see sole use and behoof of Letters Patent may be	said ASSIGNEE as the of said ASSIGNEE, its one granted, as fully and
respecting said inv continuation, substi all of said Letters possible to aid said	vention, and testify in tute, renewal and reis Patent to be issued to ASSIGNEE, its (his	ate to said ASSIGNEE or its in any legal proceeding, sign sue applications, execute all no o said ASSIGNEE, make all) successors and assigns, to o drorial possessions and in any a	n all lawful papers, ecessary assignment prightful oaths, and, gottain and enforce pro	execute all divisional, papers to cause any and enerally do everything oper protection for said
		false statement made in this defive (5) years, or both.	claration is punishable	e under 18 U.S.C. 1001
LEGAL NAME OF	INVENTOR			
Inventor: Yuji SH	IBUYA		Date: July 2	3, 2015
Signature:	冶谷 在 二	_		2

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET

ALEXANDRIA, VIRGINIA 22314

Title of Invention		BRAZED STRUCTURE	
As the below name	ed inventor,	hereby declare that:	
This declaration [The attach	ned application, or	
is directed to:		ates application or PCT international application March 24, 2015	number PCT/JP2014/058138
The above-identifi	ed applicatio	n was made or authorized to be made by me.	
I believe that I am	the original i	nventor or an original joint inventor of a claimed	l invention in the application.
		II KAISHA KOBE SEIKO SHO (KOBE STEEL CORPORATION	, LTD.)
(hereinafter referre Chuo-ku, Kobe-sh of acquiring the en	ed to as "ASS i, Hyogo 651 ntire right, ti	SIGNEE") having places of business at: 1) 2-4 -8585 Japan, and 2) 1-1, Showa-cho, Kariya-shi tle and interest in and to said invention and in a States and its territorial possessions and in any an	i, Aichi 448-8661, Japan, is desirous nd to any Letters Patent that may be
acknowledged, and said ASSIGNEE, that and in all foreign of other relevant Inte- interest in and to	d for other gethe full and ecountries (incornational Treamy and all length and	onsideration of the sum of FIVE DOLLARS (\$ good and valuable consideration, I, by these presexclusive right to the said invention in the United cluding the right to claim priority under the terms eaties and Arrangements from the aforesaid appled Letters Patent which may be granted therefor in all foreign countries and in and to any and a goof.	ents do sell, assign and transfer unto d States and its territorial possessions s of the International Convention and ication) and the entire right, title and the United States and its territorial
any and all foreign assignee of my ent (his) successors ar	n countries t tire right, titl nd assigns, to	est the Patent Office Officials in the United State of issue any and all of said Letters Patent, where and interest in and to the same, for the sole us to the full end of the term for which said Letters to be been held by me had this Assignment and sale results.	n granted, to said ASSIGNEE as the e and behoof of said ASSIGNEE, its 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.			
		ny willful false statement made in this declaration more than five (5) years, or both.	n is punishable under 18 U.S.C. 1001
LEGAL NAME O	F INVENTO		
Inventor: Shoei	reshima –	Date:	July 10.2015
Signature:	3hoei	TESHIMA	,

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

Title of Invention	BRAZED STRUCTURE
As the below named	nventor, I hereby declare that:
This declaration [The attached application, or
	United States application or PCT international application number PCT/JP2014/058138 filed on March 24, 2014
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.
	ABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.)) DENSO CORPORATION
Chuo-ku, Kobe-shi, I of acquiring the entir	o as "ASSIGNEE") having places of business at: 1) 2-4, Wakinohama-Kaigandori 2-chome, Ayogo 651-8585 Japan, and 2) 1-1, Showa-cho, Kariya-shi, Aichi 448-8661, Japan, is desirous eright, title and interest in and to said invention and in and to any Letters Patent that may be the United States and its territorial possessions and in any and all foreign countries;
acknowledged, and for said ASSIGNEE, the and in all foreign counter relevant International interest in and to any	RE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby or other good and valuable consideration, I, by these presents do sell, assign and transfer unto full and exclusive right to the said invention in the United States and its territorial possessions ntries (including the right to claim priority under the terms of the International Convention and tional Treaties and Arrangements from the aforesaid application) and the entire right, title and 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, wals thereof.
any and all foreign c assignee of my entire (his) successors and	and request the Patent Office Officials in the United States and its territorial possessions and ountries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its assigns, to the full end of the term for which said Letters Patent may be granted, as fully and would have been held by me had this Assignment and sale not been made.
respecting said inver- continuation, substitu- all of said Letters Pa possible to aid said A	at I will communicate to said ASSIGNEE or its (his) representatives any facts known to mention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, te, renewal and reissue applications, execute all necessary assignment papers to cause any and attent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said d States and its territorial possessions and in any and all foreign countries.
	dge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 ent of not more than five (5) years, or both.
LEGAL NAME OF I	// //
Inventor: Hayaki T	ERAMOTO Date: July 10. 2015
Signature:	raki Feranoto

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

Title of Invention BRAZED STRUCTURE
As the below named inventor, I hereby declare that:
This declaration The attached application, or
is directed to: United States application or PCT international application number PCT/JP2014/058138 filed on March 24, 2014
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.
WHEREAS, 1)KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.) and 2) DENSO CORPORATION
(hereinafter referred to as "ASSIGNEE") having places of business at: 1) 2-4, Wakinohama-Kaigandori 2-chome, Chuo-ku, Kobe-shi, Hyogo 651-8585 Japan, and 2) 1-1, Showa-cho, Kariya-shi, Aichi 448-8661, Japan, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;
NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.
I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same 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.
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.
LEGAL NAME OF INVENTOR
Inventor: Osamu HAKAMATA Date: July 17, 2015
Signature: Osamu Hakamata

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

PATENT REEL: 036568 FRAME: 0758

RECORDED: 09/15/2015