505682743 09/20/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT5729551

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MICHIHARU YAMAMOTO	08/27/2019
KAZUO URAKAWA	08/27/2019
MASAKI MORI	08/28/2019

RECEIVING PARTY DATA

Name:	AICHI STEEL CORPORATION
Street Address:	1, WANO-WARI, ARAO-MACHI, TOKAI-SHI
City:	AICHI
State/Country:	JAPAN
Postal Code:	476-8666

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16496003

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.

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	524484US
NAME OF SUBMITTER:	YUKIKO LEGGITT
SIGNATURE:	/Yukiko Leggitt/
DATE SIGNED:	09/20/2019

Total Attachments: 3

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PATENT 505682743 REEL: 050443 FRAME: 0180

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Invention	BALL ROTATION AMOUNT MEASUREM	IENT SYSTEM
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 appl filed on February 23, 2018	ication number PCT/JP2018/006738
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.
(hereinafter referred 476-8666 Japan, is	CHI STEEL CORPORATION d to as "ASSIGNEE") having places of business at: _ desirous of acquiring the entire right, title and intere may be granted therefore in the United States and i	est in and to said invention and in and to any
acknowledged, and said ASSIGNEE, the and in all foreign co- other relevant Inter- interest in and to a	FORE, in consideration of the sum of FIVE DOLLAR for other good and valuable consideration, I, by the ne full and exclusive right to the said invention in the puntries (including the right to claim priority under the national Treaties and Arrangements from the aforesary and all Letters Patent which may be granted the any and all foreign countries and in and to any newals thereof.	se presents do sell, assign and transfer unto e United States and its territorial possessions ne terms of the International Convention and aid application) and the entire right, title and prefor in the United States and its territorial
any and all foreign assignee of my enti (his) successors and	ze and request the Patent Office Officials in the Unit countries to issue any and all of said Letters Paten re right, title and interest in and to the same, for the d assigns, to the full end of the term for which said would have been held by me had this Assignment and	at, when granted, to said ASSIGNEE as the sole use and behoof of said ASSIGNEE, its 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.		
I hereby acknow by fine or imprison	ledge that any willful false statement made in this deement of not more than five (5) years, or both.	claration is punishable under 18 U.S.C. 1001
LEGAL NAME OF	INVENTOR	
Inventor: Michiha	aru YAMAMOTO	Date: Hug. 27, 2019
Signature: Mich	iham Jamamo D	

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

> PATENT REEL: 050443 FRAME: 0181

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of Invention	BALL ROTATION AMOUNT MEASUR	REMENT SYSTEM
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 filed on February 23, 2018	application number PCT/JP2018/006738
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.
(hereinafter referred 476-8666 Japan, is	desirous of acquiring the entire right, title and in	at: 1, Wano-wari, Arao-machi, Tokai-shi, Aichi nterest in and to said invention and in and to any and its territorial possessions and in any and all
acknowledged, and said ASSIGNEE, the and in all foreign co- other relevant Inter- interest in and to a	for other good and valuable consideration, I, by ne full and exclusive right to the said invention in puntries (including the right to claim priority und national Treaties and Arrangements from the afor ny and all Letters Patent which may be granted any and all foreign countries and in and to	DLLARS (\$5.00), the receipt whereof is hereby these presents do sell, assign and transfer unto the United States and its territorial possessions her the terms of the International Convention and presaid application) and the entire right, title and therefor in the United States and its territorial any and all divisions, reissues, continuations,
any and all foreign assignee of my enti (his) successors and	countries to issue any and all of said Letters P re right, title and interest in and to the same, for	United States and its territorial possessions and latent, when granted, to said ASSIGNEE as the the sole use and behoof of said ASSIGNEE, its said Letters Patent may be granted, as fully and at 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 acknow by fine or imprison	ledge that any willful false statement made in thi nent of not more than five (5) years, or both.	s declaration is punishable under 18 U.S.C. 1001
LEGAL NAME OF	INVENTOR	
Inventor: Kazuo U	JRAKAWA	Date:Aug. 27. 2019
Signature: Taz	40 URAHAWA	<i>-</i>

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

PATENT REEL: 050443 FRAME: 0182

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of Invention	BALL ROTATION AMOUNT MEASUREMENT SYSTEM
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/JP2018/006738 filed on February 23, 2018
The above-identific	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 476-8666 Japan , is	CHI STEEL CORPORATION If to as "ASSIGNEE") having places of business at: 1, Wano-wari, Arao-machi, Tokai-shi, Aichi I desirous of acquiring the entire right, title and interest in and to said invention and in and to any may be granted therefore in the United States and its territorial possessions and in any and all
acknowledged, and said ASSIGNEE, the and in all foreign of other 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 be full and exclusive right to the said invention in the United States and its territorial possessions punitries (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 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.	
by fine or imprison	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: Masaki	MORI Date: Aug. 28, 20/9
Signature: Mc	saki Meri

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

1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

> PATENT REEL: 050443 FRAME: 0183

RECORDED: 09/20/2019