504381036 05/23/2017

#### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4427731

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
MAKOTO SHIMODA	05/23/2017
YOSHITAKA NOSE	05/16/2017
YUYA YONEDA	05/15/2017
TAIHEI NISHIHARA	05/19/2017
KOJI WADA	05/18/2017
HENRY BOSCH	05/19/2017
BAS VAN DOOREN	05/18/2017

#### **RECEIVING PARTY DATA**

Name:	SHIMANO INC.
Street Address:	3-77 OIMATSU-CHO, SAKAI-KU
City:	SAKAI, OSAKA
State/Country:	JAPAN
Postal Code:	590-8577
Name:	SONY CORPORATION
Name: Street Address:	SONY CORPORATION 1-7-1 KONAN
Street Address:	1-7-1 KONAN

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

Property Type	Number
Application Number:	15603213

#### CORRESPONDENCE DATA

Fax Number: (202)293-0445

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: 2022930444

Email: mailpto@giplaw.com

**Correspondent Name:** GLOBAL IP COUNSELORS, LLP DAVID TARNOFF

Address Line 1: 1233 20TH STREET, NW

Address Line 2: SUITE 600

REEL: 042483 FRAME: 0301 504381036

PATENT

Address Line 4: WAS	HINGTON, D.C. 20036-2680
ATTORNEY DOCKET NUMBER:	SN-US175189
NAME OF SUBMITTER:	DAVID L. TARNOFF
SIGNATURE:	/David L. Tarnoff/
DATE SIGNED:	05/23/2017
Total Attachments: 7	
source=SN-US175189assign#page1.tif	
source=SN-US175189assign#page2.tif	
source=SN-US175189assign#page3.tif	
source=SN-US175189assign#page4.tif	
source=SN-US175189assign#page5.tif	

source=SN-US175189assign#page6.tif source=SN-US175189assign#page7.tif

Title of Invention	BATTERY HOLDER, BATTERY UNIT, AND BATTERY COMPONENT INCLUDING BATTERY HOLDER AND BATTERY UNIT	
As the below named inventor, I hereby declare that:  This declaration		
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.  I have reviewed and understand the contents of the application and am aware of the duty to disclose to the		
US Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR § 1.56.  ASSIGNMENT		
For good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, I hereby sell, assign, and transfer to Shimano Inc., having a principle place of business at 3-77 Oimatsu-cho, Sakai-ku. Sakai, Osaka, 590-8577 Japan, and Sony Corporation, having a principle place of business at 1-7-1 Konan, Minato-ku. Tokyo, 108-0075, Japan, and its successors, assigns, and legal representatives, my entire right, title and interest in and to the invention listed above, together with the Application, any and all Patents that may issue for the United States and all foreign countries (including the right to claim priority under the terms of the International Convention and any other relevant International Treaties and Arrangements from the aforesaid application), in and to any and all improvements that are disclosed in the above-noted application, and in and to any reissues, renewals, continuations, continuation-in-parts, divisionals or extensions thereof that have been or shall be filed in the United States and all foreign countries on any of said improvements.  I agree that I will communicate to the assignee or its 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 Patents to be issued to the assignee, make all rightful oaths, and, generally do everything possible to aid said assignee, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.  The undersigned hereby grants the firm of Global IP Counselors, LLP the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.		
LEGAL NA	ME OF INVENTOR (Given name FAMILY NAME)  Makoto SHIMODA  Date: 2017, 5, 23	
Signature	To 古字	

Title of Invention	BATTERY HOLDER, BATTERY UNIT, AND BATTERY COMPONENT INCLUDING BATTERY HOLDER AND BATTERY UNIT	
As the below named inventor, I hereby declare that:  This declaration		
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.  I have reviewed and understand the contents of the application and am aware of the duty to disclose to the		
US Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR § 1.56.  ASSIGNMENT		
For good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, I hereby sell, assign, and transfer to Shimano Inc., having a principle place of business at 3-77 Oimatsu-cho, Sakai-ku, Sakai, Osaka, 590-8577 Japan, and Sony Corporation, having a principle place of business at 1-7-1 Konan, Minato-ku, Tokyo, 108-0075, Japan, and its successors, assigns, and legal representatives, my entire right, title and interest in and to the invention listed above, together with the Application, any and all Patents that may issue for the United States and all foreign countries (including the right to claim priority under the terms of the International Convention and any other relevant International Treaties and Arrangements from the aforesaid application), in and to any and all improvements that are disclosed in the above-noted application, and in and to any reissues, renewals, continuations, continuation-in-parts, divisionals or extensions thereof that have been or shall be filed in the United States and all foreign countries on any of said improvements.  I agree that I will communicate to the assignee or its 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 Patents to be issued to the assignee, make all rightful oaths, and, generally do everything possible to aid said assignee, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.  The undersigned hereby grants the firm of Global IP Counselors, LLP the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.		
LEGAL NA Inventor:	LEGAL NAME OF INVENTOR (Given name FAMILY NAME)  Inventor: Yoshitaka NOSE  Date: May 16, 2017	
Inventor: Yoshitaka NOSE Date: May 16, 2017 Signature: Yoshitaka Rose		

Title of Invention	BATTERY HOLDER, BATTERY UNIT, AND BATTERY COMPONENT INCLUDING BATTERY HOLDER AND BATTERY UNIT	
As the below This declara is directed to	1/ /1	
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.  I have reviewed and understand the contents of the application and am aware of the duty to disclose to the US Patent and Trademark Office all information known to me to be material to patentability as defined in		
ASSIGNMENT  For good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, I hereby sell, assign, and transfer to Shimano Inc., having a principle place of business at 3-77 Oimatsu-cho, Sakai-ku, Sakai, Osaka, 590-8577 Japan, and Sony Corporation, having a principle place of business at 1-7-1 Konan, Minato-ku, Tokyo, 108-0075, Japan, and its successors, assigns, and legal representatives, my entire right, title and interest in and to the invention listed above, together with the Application, any and all Patents that may issue for the United States and all foreign countries (including the right to claim priority under the terms of the International Convention and any other relevant International Treaties and Arrangements from the aforesaid application), in and to any and all improvements that are disclosed in the above-noted application, and in and to any reissues, renewals, continuations, continuation-in-parts, divisionals or extensions thereof that have been or shall be filed in the United States and all foreign countries on any of said improvements.  I agree that I will communicate to the assignee or its 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 Patents to be issued to the assignee, make all rightful oaths, and, generally do everything possible to aid said assignee, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.  The undersigned hereby grants the firm of Global IP Counselors, LLP the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.		
Inventor: Yuya YONEDA Date: 15th-May 2017 Signature: Yuya Yoneda		

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 filed on		
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.		
I have reviewed and understand the contents of the application and am aware of the duty to disclose to the US Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR § 1.56.		
ASSIGNMENT		
For good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, I hereby sell, assign, and transfer to Shimano Inc., having a principle place of business at 3-77 Oimatsu-cho, Sakai-ku, Sakai, Osaka, 590-8577 Japan, and Sony Corporation, having a principle place of business at 1-7-1 Konan, Minato-ku, Tokyo, 108-0075, Japan, and its successors, assigns, and legal representatives, my entire right, title and interest in and to the invention listed above, together with the Application, any and all Patents that may issue for the United States and all foreign countries (including the right to claim priority under the terms of the International Convention and any other relevant International Treaties and Arrangements from the aforesaid application), in and to any and all improvements that are disclosed in the above-noted application, and in and to any reissues, renewals, continuations, continuation-in-parts, divisionals or extensions thereof that have been or shall be filed in the United States and all foreign countries on any of said improvements.  I agree that I will communicate to the assignee or its 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 Patents to be issued to the assignee, make all rightful oaths, and, generally do everything possible to aid said assignee, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.  The undersigned hereby grants the firm of Global IP Counselors, LLP the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.		
LEGAL NAME OF INVENTOR (Given name FAMILY NAME)		
Inventor: Taihei NISHIHARA Date: May. 19, 2017  Signature: Taihei Nishi kara		

***************************************			
Title of Invention	BATTERY HOLDER, BATTERY UNIT, AND BATTERY COMPONENT INCLUDING BATTERY HOLDER AND BATTERY UNIT		
As the belov	As the below named inventor, I hereby declare that:		
This declara			
	United States application or PCT international application number filed on		
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.			
	nowledge that any willful false statement made in this declaration is punishable under 18 by fine or imprisonment of not more than five (5) years, or both.		
	wed and understand the contents of the application and am aware of the duty to disclose to the ad Trademark Office all information known to me to be material to patentability as defined in 56.		
	ASSIGNMENT		
For good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, I hereby sell, assign, and transfer to Shimano Inc., having a principle place of business at 3-77 Oimatsu-cho, Sakai-ku, Sakai, Osaka, 590-8577 Japan, and Sony Corporation, having a principle place of business at 1-7-1 Konan, Minato-ku, Tokyo, 108-0075, Japan, and its successors, assigns, and legal representatives, my entire right, title and interest in and to the invention listed above, together with the Application, any and all Patents that may issue for the United States and all foreign countries (including the right to claim priority under the terms of the International Convention and any other relevant International Treaties and Arrangements from the aforesaid application), in and to any and all improvements that are disclosed in the above-noted application, and in and to any reissues, renewals, continuations, continuation-in-parts, divisionals or extensions thereof that have been or shall be filed in the United States and all foreign countries on any of said improvements.  I agree that I will communicate to the assignee or its 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 Patents to be issued to the assignee, make all rightful oaths, and, generally do everything possible to aid said assignee, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.  The undersigned hereby grants the firm of Global IP Counselors, LLP the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.			
	LEGAL NAME OF INVENTOR (Given name FAMILY NAME)		
Inventor:	Koji WADA Date: May 18, 2017  Koji Wada		
Signature	· IIU)I Wada		

Title of Invention	BATTERY HOLDER, BATTERY UNIT, AND BATTERY COMPONENT INCLUDING BATTERY HOLDER AND BATTERY UNIT	
As the below	v named 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-identified application was made or authorized to be made by me.		
I believe tha application.	t I am the original inventor or an original joint inventor of a claimed invention in the	
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.		
I have reviewed and understand the contents of the application and am aware of the duty to disclose to the US Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR § 1.56.		
	ASSIGNMENT	
For good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged. I hereby sell, assign, and transfer to Shimano Inc., having a principle place of business at 3-77 Oimatsu-cho, Sakai-ku, Sakai, Osaka, 590-8577 Japan, and Sony Corporation, having a principle place of business at 1-7-1 Konan, Minato-ku, Tokyo, 108-0075, Japan, and its successors, assigns, and legal representatives, my entire right, title and interest in and to the invention listed above, together with the Application, any and all Patents that may issue for the United States and all foreign countries (including the right to claim priority under the terms of the International Convention and any other relevant International Treaties and Arrangements from the aforesaid application), in and to any and all improvements that are disclosed in the above-noted application, and in and to any reissues, renewals, continuations, continuation-in-parts, divisionals or extensions thereof that have been or shall be filed in the United States and all foreign countries on any of said improvements.  I agree that I will communicate to the assignee or its 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 Patents to be issued to the assignee, make all rightful oaths, and, generally do everything possible to aid said assignee, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.  The undersigned hereby grants the firm of Global IP Counselors, LLP the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.		
Inventor: Henry BOSCH Date: /C/ - // // Signature:		

	BATTERY HOLDER, BATTERY UNIT, AND BATTERY COMPONENT INCLUDING BATTERY HOLDER AND BATTERY UNIT		
As the below	named inventor, I hereby declare that:		
This declaration  The attached application, or is directed to:			
to divocated str.	United States application or PCT international application number		
The above-ide	entified 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.		
US Patent and	I have reviewed and understand the contents of the application and am aware of the duty to disclose to the US Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR § 1.56.		
	ASSIGNMENT		
acknowledges 3-77 Oimatsu place of busin legal representhe Applicatio (including the relevant Inter- improvements continuations the United Str I agree th said invention continuation, cause any and everything po protection for The unde Assignment a	For good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, I hereby sell, assign, and transfer to Shimano Inc., having a principle place of business at 3-77 Oimatsu-cho, Sakai-ku. Sakai, Osaka, 590-8577 Japan, and Sony Corporation, having a principle place of business at 1-7-1 Konan, Minato-ku, Tokyo, 108-0075, Japan, and its successors, assigns, and legal representatives, my entire right, title and interest in and to the invention listed above, together with the Application, any and all Patents that may issue for the United States and all foreign countries (including the right to claim priority under the terms of the International Convention and any other relevant International Treaties and Arrangements from the aforesaid application, in and to any and all improvements that are disclosed in the above-noted application, and in and to any reissues, renewals, continuations, continuation-in-parts, divisionals or extensions thereof that have been or shall be filed in the United States and all foreign countries on any of said improvements.  I agree that I will communicate to the assignee or its 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 Patents to be issued to the assignee, make all rightful oaths, and, generally do everything possible to aid said assignee, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.  The undersigned hereby grants the firm of Global IP Counselors, LLP the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.		
LEGAL NAME OF INVENTOR (Given name FAMILY NAME)			
Inventor:	Bas VAN DOOREN Date: 18-05-20/2		
Signaturo	PATENT		

RECORDED: 05/23/2017 REEL: 042483 FRAME: 0309