#### 10/03/2018 505124706

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5171468

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
SATOSHI KANAI	10/01/2018
HIDEKI SUDO	10/01/2018
YUICHIRO ABE	10/01/2018
HIROSHI NAGAEDA	10/01/2018

#### **RECEIVING PARTY DATA**

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State/Country:	JAPAN
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State/Country:	JAPAN
Postal Code:	305-0044

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

Property Type	Number
Application Number:	16090946

### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER: 2209858.00151US1

> **PATENT REEL: 047055 FRAME: 0769**

505124706

NAME OF SUBMITTER:	GRANT K. ROWAN	
SIGNATURE:	/Grant K. Rowan/	
DATE SIGNED:	10/03/2018	
Total Attachments: 6		
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Docket No.: Only After Sept. 16, 2012

### ASSIGNMENT WITH DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)

Whereas, I/we, the undersigned inventor(s) hereinafter called assignor(s), have invented certain improvements described in the application identified below; (the "invention") and

Whereas, NATIONAL UNIVERSITY CORPORATION HOKKAIDO UNIVERSITY, Kita 8-jyo Nishi 5-chome, Kita-ku, Sapporo-shi, Hokkaido 060-0808, Japan; and NOA CO., LTD., 17-6, Namiki 3-chome, Tsukuba-shi, Ibaraki 305-0044, Japan, (assignees), desires to acquire the entire and exclusive right, title, and interest in the application and invention, and to any patents that may be obtained therefor in the United States, in any U.S. territorial possessions, and in any and all foreign countries;
Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/we, the above named assignor(s), hereby sell, assign and transfer to the above named assignees, their successors and assigns, the entire and exclusive right, title and interest in the application and the invention disclosed therein for the United States, U.S. territorial possessions, and in any and all foreign countries, including all divisions, and continuations, and continuations-in-part thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues and reexaminations, renewals, and substitutions thereof, and including the right to claim priority under 35 U.S.C. §119, and all rights for past infringement, under the International Convention, and under any other relevant International Treaties and Arrangements, and I/we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignees, their successors and assigns; I/we will execute without further consideration all papers deemed necessary by the assignees, and generally perform all necessary acts to aid the assignees, their successors and assigns, to obtain and enforce proper protection for the invention in connection with the United States and foreign applications, including but not limited to all divisional, continuation, reissue and other applications for Letters Patent on the invention and execute all assignments thereof to the above named assignees their successors and assigns, when called upon to do so by the assignees; and I/we will communicate to the above named assignees or their representatives all facts known to the undersigned respecting the invention, whenever requested, testify in any legal proceedings in which any of the applications or patents may become involved, and do generally everything necessary to assist the above named assignees or their successors or assigns to obtain patent protection for the invention in the United States and foreign countries.

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

As the below named inventor, I hereby declare that:		
This assignment with declaration is directed to:		The attached application, or
directed to.	X	United States Application or PCT International Application Number <a href="PCT/JP2017/014082">PCT/JP2017/014082</a> filed on <a href="April 4">April 4</a> , <a href="2017">2017</a> (Confirmation No).

The application is entitled:

# SCOLIOSIS DIAGNOSIS ASSISTANCE DEVICE, SCOLIOSIS DIAGNOSIS ASSISTANCE METHOD, AND PROGRAM

The above identified application was made or was 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 have reviewed and understand the contents of the application for which this assignment with declaration is being submitted, including the claims.

I am aware of the duty to disclose to the U.S Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR 1.56.

I hereby acknowledge that any willful false statement made in this assignment with declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

# Authorization To Permit Access To Application by Participating Office

☐ If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the above-identified application is filed access to the above-identified patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, or other intellectual property office in which a foreign application claiming priority to the above-identified application is filed to have access to the application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the application-as-filed with respect to: 1) the above-identified patent application-as-filed, 2) any foreign application to which the above-identified application claims priority under 35 USC 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the above-identified patent application, and 3) any U.S. application-as-filed from which benefit is sought in the above-identified patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing the Authorization to Permit Access to Application by Participating Office.

NAME OF SOLE OR FIRST INVENTOR:					
Given Name					
(first and middle [if any]) Satoshi	Family Name or Sumame KANAI				
Inventor's signature Natoshi Kaccao	October 1, 2	018			
Residence: Hokkaido, Japan					
c/o NATIONAL UNIVERSITY CORPORATION HOKKAIDO UNIVERSITY, Mailing Address: Kita 8-jyo Nishi 5-chome, Kita-ku, Sapporo-shi, Hokkaido 060-0808, Japan					
NAME OF SECOND INVENTOR:					
Given Name (first and middle [if any]) Hideki	Family Name or Surname SUDO				
Inventor's signature Hidele Sudo	Date October 1, 20	)18			
Residence: Hokkaido, Japan		-Ahda#####			
c/o NATIONAL UNIVERSITY CORPORATION F Mailing Address: Kita 8-jyo Nishi 5-chome, Kita-ku, Sapporo-shi, Ho					
NAME OF THIRD INVENTOR:		;			
Given Name (first and middle [if any])  Yuichiro	Family Name or Surname ABE				
Inventor's signature	Date				
Residence: Hokkaido, Japan					
c/o NATIONAL UNIVERSITY CORPORATION E Mailing Address: Kita 8-jyo Nishi 5-chome, Kita-ku, Sapporo-shi, Hol					
NAME OF FOURTH INVENTOR:					
Given Name (first and middle [if any]) Hiroshi	Family Name or Surname NAGAEDA				
Inventor's signature	Date				
Residence: Hokkaido, Japan					
Mailing c/o NOA Co., Ltd., Hokudai Business Spring, Kita 21-jyo Nishi 12-chome 2, Kita-ku, Sapporo-shi, Address: Hokkaido 001-0021, Japan					
NAME OF FIFTH INVENTOR:					
Given Name (first and middle [if any])	Family Name or Surname				
Inventor's signature	Date				
Residence:					
Mailing Address:					

Docket No.: Only After Sept. 16, 2012

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Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/we, the above named assignor(s), hereby sell, assign and transfer to the above named assignees, their successors and assigns, the entire and exclusive right, title and interest in the application and the invention disclosed therein for the United States, U.S. territorial possessions, and in any and all foreign countries, including all divisions, and continuations, and continuations-in-part thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues and reexaminations, renewals, and substitutions thereof, and including the right to claim priority under 35 U.S.C. §119, and all rights for past infringement, under the International Convention, and under any other relevant International Treaties and Arrangements, and I/we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignees, their successors and assigns; I/we will execute without further consideration all papers deemed necessary by the assignees, and generally perform all necessary acts to aid the assignees, their successors and assigns, to obtain and enforce proper protection for the invention in connection with the United States and foreign applications, including but not limited to all divisional, continuation, reissue and other applications for Letters Patent on the invention and execute all assignments thereof to the above named assignees their successors and assigns, when called upon to do so by the assignees; and I/we will communicate to the above named assignees or their representatives all facts known to the undersigned respecting the invention, whenever requested, testify in any legal proceedings in which any of the applications or patents may become involved, and do generally everything necessary to assist the above named assignees or their successors or assigns to obtain patent protection for the invention in the United States and foreign countries.

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NAME OF SOLE OR FIRST INVENTOR:				
Given Name				
(first and middle [if any]) Satoshi	Family Name or Surname KANAI			
Inventor's signature	Date			
Residence: Hokkaido, Japan				
c/o NATIONAL UNIVERSITY CORPORATION F Mailing Address: Kita 8-jyo Nishi 5-chome, Kita-ku, Sapporo-shi, Ho				
NAME OF SECOND INVENTOR:				
Given Name				
(first and middle [if any]) Hideki	Family Name or Surname SUDO			
Inventor's signature	Date			
Residence: Hokkaido, Japan				
o∕o NATIONAL UNIVERSITY CORPORATION H	IOKKAIDO UNIVERSITY,			
Mailing Address: Kita 8-jyo Nishi 5-chome, Kita-ku, Sapporo-shi, Hol	·			
NAME OF THIRD INVENTOR:				
Given Name	·			
(first and middle [if any]) Yuichiro	Family Name or Surname ABE			
Inventor's signature Yuichw Abe	Date October 1, 2018			
V				
Residence: Hokkaido, Japan				
c/o NATIONAL UNIVERSITY CORPORATION H Mailing Address: Kita 8-jyo Nishi 5-chome, Kita-ku, Sapporo-shi, Hol				
NAME OF FOURTH INVENTOR:				
Given Name				
(first and middle [if any]) Hiroshi	Family Name or Surname NAGAEDA			
	Date			
Inventor's signature	Date			
Residence: Hokkaido, Japan				
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NAME OF FIFTH INVENTOR:				
Given Name				
(first and middle [if any])	Family Name or Surname			
Inventor's signature	Date			
Paridona				
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Given Name				
(first and middle [if any]) Satoshi	Family Name or Surname KANAI			
Inventor's signature	Date			
Residence: Hokkaido, Japan				
c/o NATIONAL UNIVERSITY CORPORATION H Mailing Address: Kita 8-jyo Nishi 5-chome, Kita-ku, Sapporo-shi, Hok	OKKAIDO UNIVERSITY, kaido 060-0808, Japan			
NAME OF SECOND INVENTOR:	·			
Given Name (first and middle [if any]) Hideki	Family Name or Surname SUDO			
Inventor's signature	Daie			
Residence: Hokkaido, Japan				
c/o NATIONAL UNIVERSITY CORPORATION H Mailing Address: Kita 8-jyo Nishi 5-chome, Kita-ku, Sapporo-shi, Hok	OKKAIDO UNIVERSITY, kaido 060-0808, Japan			
NAME OF THIRD INVENTOR:				
Given Name (first and middle [if any]) Yuichiro	Family Name or Surname ABE			
Inventor's signature	Date			
Residence: Hokkaldo, Japan				
c/o NATIONAL UNIVERSITY CORPORATION H Mailing Address: Kita 8-jyo Nishi 5-chome, Kita-ku, Sapporo-shi, Hok	OKKAIDO UNIVERSITY, kaido 060-0808, Japan			
NAME OF FOURTH INVENTOR:	•			
Given Name (first and middle [if any]) Hiroshi	Family Name or Surname NAGAEDA			
Inventor's signature Hiroshi Nagaeda	Date October 1, 2018			
Residence: Hokkaido, Japan				
Mailing c/o NOA Co., Ltd., Hokudai Business Spring, Kita 21-jyo Nishi 12-chome 2, Kita-ku, Sapporo-shi, Address: Hokkaido 001-0021, Japan				
NAME OF FIFTH INVENTOR:				
Given Name (first and middle [if any])	Family Name or Surname			
Inventor's signature	Date			
HANNIO 2 DESTRUCTO				
Residence:				
Mailing Address:				

[Page 2]

**PATENT** 

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