# 505633830 08/22/2019

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5680636

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
TAKASHI HONDA	08/06/2019
KOWANG LIU	08/19/2019
KWUN PAN NG	08/02/2019
MAKOTO KAWATO	07/31/2019

#### **RECEIVING PARTY DATA**

Name:	SAE MAGNETICS (H.K.) LTD.
Street Address:	SAE TECHNOLOGY CENTRE
Internal Address:	6 SCIENCE PARK EAST AVENUE, HONG KONG SCIENCE PARK, SHATIN N.T.
City:	HONG KONG
State/Country:	CHINA
Name:	HEADWAY TECHNOLOGIES, INC.
Street Address:	682 SOUTH HILLVIEW DRIVE
City:	MILPITAS
State/Country:	CALIFORNIA
Postal Code:	95035

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

Property Type	Number
Application Number:	16505964

### **CORRESPONDENCE DATA**

**Fax Number:** (703)816-4100

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:
 703-816-4000

 Email:
 sjg@nixonvan.com

Correspondent Name: NIXON & VANDERHYE, PC

Address Line 1: 901 NORTH GLEBE ROAD, 11TH FLOOR

Address Line 4: ARLINGTON, VIRGINIA 22203

ATTORNEY DOCKET NUMBER: 4593-498

NAME OF SUBMITTER: JOSEPH S. PRESTA

PATENT 505633830 REEL: 050124 FRAME: 0179

SIGNATURE:	/Joseph S. Presta/	
DATE SIGNED:	08/22/2019	
This document serves as an Oath/Declaration (37 CFR 1.63).		
Total Attachments: 4		
source=Declaration-and-assignment#page1.tif		
source=Declaration-and-assignment#page2.tif		
source=Declaration-and-assignment#page3.tif		
source=Declaration-and-assignment#page4.tif		

PATENT REEL: 050124 FRAME: 0180

cument Description: Oath or declaration filed	Attorney Docket Number	JSP-4593-498
	First Named Inventor	HONDA, Takashi
INVENTOR'S DECLARATION AND ASSIGNMENT FOR USING AN APPLICATIO  ☐ Declaration Submitted With Initial Filing  DR  ☑ Declaration Submitted After Initial Filing (surcharge (3	ON DATA SHEET (37 CFR 1.76)	APPLICATION (37 CFR 1.63)
LIGHT SOURCE UNIT AND THE	RMALLY-ASSISTED MAGNETIC	: HEAD
(Title o	of the Invention)	
s a below named inventor, I hereby declare that:		
This declaration is directed to:  the attached application, or  United States Application Number <u>16/505,964</u> filed <u>Ju</u> PCT International application number filed on	il <b>y 9, 2</b> 019, or	
The above-identified application was made or authorized to be n	nade by me.	
believe I am the original inventor or an original joint inventor of		
hereby acknowledge that any willful false statement made in the sy fine or imprisonment of not more than five (5) years, or both.	nis declaration is punishable under 18	I U.S.C. 1001
MHEREAS, the undersigned (hereinafter ASSIGNOR), has made	de an invention in the Application ide	ntified above.
Centre, 6 Science Park East Avenue, Hong Kong Science Park, acquiring an interest therein; WHEREAS, Headway Technologies, Inc. (hereinafter ASSIGNE Hillview Drive, Milpites, CA 95036, is desirous of acquiring an in	EE), an entity, having an office and pl	
NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) as of which are hereby acknowledged, the said ASSIGNOR by the ASSIGNEE, its successors, assigns, and legal representatives. America and all foreign countries, in and to the invention as dessubsequent applications based thereon including any and all coall resulting patents, together with the right of priority under the American Convention Relating to Patents, Designs and Industricates of America adheres, and the ASSIGNOR hereby authorisaid Letters Patent to ASSIGNEE, for its interest as ASSIGNEE agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. has ASSIGNEE with respect to this invention;	and/or other good and valuable considuate presents hereby sells, assigns, at ASSIGNOR'S entire right, title and it scribed in the aforesaid application, a potinuations, divisions, reissues, and International Convention for the Probabilities and requests the Commissioner E, its successors, assigns, and legal rave represented only ASSIGNEE and	nd transters unto the said nterest in the United States of nd to the said application and to al substitutes of said application, and ection of Industrial Property, Inter- al agreements to which the United of Patents and Trademarks to issu- epresentatives. It is understood a it will continue to represent only
ASSIGNOR hereby agrees to transfer a like interest upon requirepresentatives, and without further remuneration, in and to any of or related to the said invention;	y improvements, and applications for	parents pasco mercur, grammy a
ASSIGNOR hereby agrees to execute any papers by ASSIGNI to ASSIGNEE'S full protection and title in and to the invention t	nereby transferred; and	
ASSIGNOR hereby agrees, upon request of ASSIGNEE, and v ASSIGNEE, for the filing and granting of foreign applications at	without further remuneration, to execund the perfecting of title thereto in AS	ite any and all papers desired by SIGNEE.
MODICINALLY, for the name and and described as an order order.		
AGREED and executed as noted below:		
AGREED and executed as noted below: LEGAL NAME OF INVENTOR/JOINT INVENTOR:		
AGREED and executed as noted below:  LEGAL NAME OF INVENTOR/JOINT INVENTOR:  (E.g., Given Name (first and middle (if any)) and Family Name  Takashi	or Sumame)	HONDA

Doc code: Oath

Signature of witness:

Name:

Document Description: Oath or declaration filed

I/We acknowledge the duty to disclose information which is material to the patentability of this application as defined in 37 CFR §1.56.

Date:

	Afterna, Parket Mout	100 1000 100
	Attorney Docket Number	JSP-4593-498
	First Named Inventor	HONDA, Takashi
INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) USING AN APPLICATION DATA SHEET (37 CFR 1.76)		
Declaration Submitted With Initial Filing OR		
Declaration Submitted After Initial Filing (surcharge (37 C.F.R.	§ 1.16(f)) required)	
LIGHT SOURCE UNIT AND THERMALLY	-ASSISTED MAGNETIC	HEAD
(Title of the Inven	tion)	
As a below named inventor, I hereby declare that:		
This declaration is directed to:  ☐ the attached application, or ☐ United States Application Number 16/505,964 filed July 9, 2019 ☐ PCT International application number filed on	<u>9,</u> or	
The above-identified application was made or authorized to be made by m	<del>16</del> .	
I believe 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 declarate by fine or imprisonment of not more than five (5) years, or both.	tion is punishable under 18	U.S.C. 1001
WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an inver-	ntion in the Application iden	tified above.
WHEREAS, SAE Magnetics (H.K.) Ltd. (hereinafter ASSIGNEE), an entity Centre, 6 Science Park East Avenue, Hong Kong Science Park, Shatin, N acquiring an interest therein;	, having an office and place .T., Hong Kong, People's R	of business at SAE Technology epublic of China, is desirous of
WHEREAS, Headway Technologies, Inc. (hereinafter ASSIGNEE), an entity, having an office and place of business at 682 South Hillview Drive, Milpitas, CA 95035, is desirous of acquiring an interest therein;		
NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and/or other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR by these presents hereby sells, assigns, and transfers unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNOR'S entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, and all resulting patents, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents. Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and the ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention;		
ASSIGNOR hereby agrees to transfer a like interest upon request of said ASSIGNEE, its successors, assigns, and legal representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing out of or related to the said invention;		
ASSIGNOR hereby agrees to execute any papers by ASSIGNEE, its succ to ASSIGNEE'S full protection and title in and to the invention hereby trans		epresentatives, deemed essential
ASSIGNOR hereby agrees, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.		
AGREED and executed as noted below:		
Legal Name of Additional Joint Inventor, if any: (E.g., Given Name (first and middle (if any)) and Family Name or Surname	3}	
Kowang		LIU
Inventor's Signature:	Date: 8/14	12019
Witnessed by: Name:		, , , , , , , , , , , , , , , , , , ,
Signature of witness:	Date:	
Doc code: Oath		
Document Description: Oath or declaration filed		
	Attorney Docket Number	JSP-4593-498

I/We acknowledge the duty to disclose information which is material to the patentability of this application as defined in 37 CFR §1.56.

그는 사람들은 사람들은 사람들이 가는 사람들은 생활하는 사람들이 하셨다면 하는 사람들은 사람들이 되었다.		
	First Named Inventor HONDA, Takashi	
INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTILITY USING AN APPLICATION DATA S  Declaration Submitted With Initial Filing	OR DESIGN PATENT APPLICATION (37 CFR 1.63)	
ŌR	경상(1) - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
□ Declaration Submitted After Initial Filing (surcharge (37 C.F.R. §	1.16(f)) required)	
LIGHT SOURCE UNIT AND THERMALLY-	ASSISTED MAGNETIC HEAD	
(Title of the Invention		
As a below named inventor, I hereby declare that:		
This declaration is directed to:  ☐ the attached application, or ☐ United States Application Number 16/505.964 filed July 9, 2019. ☐ PCT International application number filed on		
The above-identified application was made or authorized to be made by me.	ta de después de la companya de la c La companya de la co	
I believe I am the original inventor or an original joint inventor of a claimed in		
I hereby acknowledge that any willful false statement made in this declaration by fine or imprisonment of not more than five (5) years, or both.	그 그들이 하시겠다는 이 그렇게 되었다.	
WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an inventi	돌아보다 가장하다 그 사람들은 이번 가는 그는 그 그 그 그 그 그 그 그 그 그 그를 다 했다.	
WHEREAS, SAE Magnetics (H.K.) Ltd. (hereinafter ASSIGNEE), an entity, having an office and place of business at SAE Technology Centre, 6 Science Park East Avenue, Hong Kong Science Park, Shatin, N.T., Hong Kong, People's Republic of China, is desirous of acquiring an interest therein;		
WHEREAS, Headway Technologies, Inc. (hereinafter ASSiGNEE), an entity Hillview Drive, Milpitas, CA 95035, is desirous of acquiring an interest therein	, having an office and place of business at 682 South n;	
NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and/or other of which are hereby acknowledged, the said ASSIGNOR by these presents ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNOR. America and all foreign countries, in and to the invention as described in the subsequent applications based thereon including any and all continuations, all resulting patents, together with the right of priority under the International American Convention Relating to Patents. Designs and industrial Models, at States of America adheres, and the ASSIGNOR hereby authorizes and requised Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its success agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represent ASSIGNEE with respect to this invention;	nereby sells, assigns, and transfers unto the said  S entire right, title and interest in the United States of aforesald application, and to the said application and to all divisions, reissues, and substitutes of said application, and Convention for the Protection of Industrial Property, Inter- nd any other international agreements to which the United ests the Commissioner of Patents and Trademarks to issue ors, assigns, and legal representatives. It is understood and	
ASSIGNOR hereby agrees to transfer a like interest upon request of said As representatives, and without further remuneration, in and to any improvement of or related to the said invention;	SIGNEE, its successors, assigns, and legal its, and applications for patents based thereon, growing out	
ASSIGNOR hereby agrees to execute any papers by ASSIGNEE, its success to ASSIGNEE'S full protection and title in and to the invention hereby transfer		
ASSIGNOR hereby agrees, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.		
AGREED and executed as noted below:		
Legal Name of Additional Joint Inventor, if any:		
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)		
Kwun Pan Inventor's Signature: _/7	NG	
niveritus s signature.	Date 8 - 2 2 & t 8	
Witnessed by:	\ L - 28 (\	
Name:		
Signature of witness:	Date	
Doc code: Oath		
Document Description: Oath or declaration filed		
	Attorney Docket Number JSP-4593-498	
그 그 살아 있는 그는 그는 그 사람들은 경험을 받는 것이 없다면 살아 없다.	First Named Inventor HONDA, Takashi	

I/We acknowledge the duty to disclose information which is material to the patentability of this application as defined in 37 CFR §1.58.

INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTILITY OR	DESIGN PATENT APPLICATION (37 CFR 1.63)	
USING AN APPLICATION DATA SHEE		
Declaration Submitted With Initial Filing		
OR  ☐ Declaration Submitted After Initial Filing (surcharge (37 C.F.R. § 1.16)	i(f)) required)	
LIGHT SOURCE UNIT AND THERMALLY-ASSI	STED MAGNETIC HEAD	
(Title of the Invention)	0122 1110112 (10 110112	
·		
As a below named inventor, I hereby declare that:		
This declaration is directed to:		
☐ the attached application, or ☐ the attached application Number 16/505,964 filed July 9, 2019, or		
PCT International application number filed on .		
The above-identified application was made or authorized to be made by me.		
	in the amplication	
I believe I am the original inventor or an original joint inventor of a claimed inventi		
I hereby acknowledge that any willful false statement made in this declaration is a by fine or imprisonment of not more than five (5) years, or both.	sumsnable under 15 U.S.C. 1901	
WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an invention in	the Application identified above.	
WHEREAS, SAE Magnetics (H.K.) Ltd. (hereinafter ASSIGNEE), an entity, havin		
Centre, 6 Science Park East Avenue, Hong Kong Science Park, Shatin, N.T., Ho acquiring an interest therein;	ng Kong, People's Republic of China, is desirous of	
WHEREAS, Headway Technologies, Inc. (hereinafter ASSIGNEE), an entity, hav Hillview Drive, Milpitas, CA 95035, is desirous of acquiring an interest therein;	ing an office and place of business at 682 South	
NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and/or other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR by these presents hereby sells, assigns, and transfers unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNOR'S entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, and all resulting patents, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and the ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and agreed that ASSIGNEE's attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention;		
ASSIGNOR hereby agrees to transfer a like interest upon request of said ASSIG representatives, and without further remuneration, in and to any improvements, a of or related to the said invention;	NEE, its successors, assigns, and legal and applications for patents based thereon, growing out	
ASSIGNOR hereby agrees to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred; and		
ASSIGNOR hereby agrees, upon request of ASSIGNEE, and without further rem ASSIGNEE, for the filing and granting of foreign applications and the perfecting of		
AGREED and executed as noted below:		
Legal Name of Additional Joint Inventor, if any:		
(E.g., Given Name (first and middle (if any)) and Family Name or Sumame)		
Makoto	KAWATO	
Inventor's Signature: Falvato Maketo	Date: July-31 -2019	
Witnessed by:	<u>.</u>	
Name:		
Signature of witness:	Date:	

I/We acknowledge the duty to disclose information which is material to the patentability of this application as defined in 37 CFR §1.56.

PATENT REEL: 050124 FRAME: 0184

**RECORDED: 08/22/2019**