

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT7319219

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HIROYA YUZAWA	02/09/2017
SHIGERU HAYATA	04/27/2022
YUTO HATTORI	02/09/2017
RECEIVING PARTY DATA	
Name:	SHINKAWA LTD.
Street Address:	51-1, INADAIRA 2-CHOME, MUSASHIMURAYAMA-SHI,
City:	TOKYO
State/Country:	JAPAN
Postal Code:	208-8585
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16758859
CORRESPONDENCE DATA	
Fax Number:	(949)391-4699
<i>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.</i>	
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Correspondent Name:	JCIPRNET
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Address Line 4:	TAIPEI, TAIWAN 100404
ATTORNEY DOCKET NUMBER:	082678-US-1781-PCT
NAME OF SUBMITTER:	DANIEL HSIEH
SIGNATURE:	/Daniel Hsieh/
DATE SIGNED:	05/09/2022
Total Attachments: 5	
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**DECLARATION AND ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION**

☒ Declaration Submitted With Initial Filing

OR

☐ Declaration Submitted After Initial Filing (surcharge 37 CFR 1.16(f) required)

BONDING APPARATUS

As a below named inventor (hereinafter designated as the undersigned), I hereby declare that:

This declaration is directed to:

☐ The attached application,

OR

☒ United States Application Number or PCT International application number

PCT/JP2018/034576 Filed on September 19, 2018.

The above-identified application was made or authorized to be made by me.

I believe I am the original inventor or an original joint inventor of a claimed invention in the application.

The undersigned 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.

**DECLARATION AND ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION**

WHEREAS, the undersigned has invented certain new and useful improvements described in the application identified.

WHEREAS, SHINKAWA LTD. (Name of Assignee) of 51-1, Inadaira 2-chome,
Musashimurayama-shi, Tokyo, 208-8585, Japan (Address of Assignee)

hereinafter referred to as ASSIGNEE, is desirous of acquiring the undersigned's interest in the said invention and application and in any U.S. Letters Patent which may be granted on the same:

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged by the undersigned, the undersigned has/have sold, assigned and transferred, and by these presents does/do sell, assign and transfer unto the said Assignee, and Assignee's successors and assigns, all his/her/their rights, title and interest in and to the said invention and application and all future improvements thereon, and in and to any Letters Patent which may hereafter be granted on the same in the United States, the said rights, title and interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said the undersigned had this Assignment and transfer not been made, to the full end and term of any Letters Patent which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

The undersigned further agrees/agree that he/she/they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee Lawfully may request, to obtain or maintain Letters Patent for said invention and improvement, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

**DECLARATION AND ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION**

		Date:	
Legal Name of Sole or First Inventor: Hiroya YUZAWA			
Signature:	<i>Shigeru Hayata</i>	Date:	<i>2022/4/27</i>
Legal Name of Additional Joint Inventor: Shigeru HAYATA			
Signature:		Date:	
Legal Name of Additional Joint Inventor: Yuto HATTORI			

To: Shinkawa Co., Ltd. Technology Division General Manager

Invention proposal and invention authorization notice

Revised April 1, 2010

Notification date	December 27, 2016	* Intellectual Property Division entry field	Receipt number	1826
			Docket number	1198P-JX-000
Type of intellectual property	Patents, Utility models, Design patents, know-how, and others () (*1)			
Temporary name of invention, etc.	Aperture switching function of the optical system for position detection			
In-house proposer (Inventors, etc.)	Own department (Department name)	Full name	Frigana (half-width)	Rank (*2)
	Research and Development Department, Research Division	YUZAWA Hiroya	ユザワヒロヤ	1
	Research and Development Department	HAYATA Shigeru	ハヤタシゲル	2
	Research and Development Department, Research Division	HATTORI Yuto	ハトリユウト	3
Outside proposer (Inventors, etc.)	Own department (Institution name/department name)	Full name	Frigana (half-width)	Telephone number
Summary of intellectual property (Essence of invention)	By adding an aperture switching function to the optical system, it is possible to select the optimum aperture according to the purpose and obtain the optimum image. It will be possible to improve accuracy, robustness, inspection accuracy, measurement accuracy, and new functions (three-dimensional measurement, etc.).			
Attachment	Patent specification creation sheet None (sent separately)			
* Intellectual property rights attribution and consent (Article 3 of Employee Invention Handling Regulations)		Confirmation mark (only for our proposers)		
I (We) have confirmed that all the rights related to the claimed invention (invention/design) belong to the company by law.				
Implementation (announcement) schedule	Yes/No	Scheduled date of working of the invention (*3):	2018/4	Place at working the invention:
		Format for working (announcement) the invention:		Apparatus for working the invention: UTC-NEXT
Preferred filing date	Reasons for no working (announcement) the invention			
Applicant	Our company / Collaboration with other companies (Co-applicant: Nippon Valqua Industry Ltd.) / Others:			
Preferred application form	JP application:	Core application / Reinforcement application / Regular application		
	PCT application:	Required (Designated country: KR, CN) / Not required		
	Foreign application:	Required (Designated country: TW) / Not required		
	Others:			
Background of intellectual property proposal (*4)/Reason (*5)				
Remarks / contact information				
Manager evaluation	Early rights acquisition	Yes/No	Reason for Yes:	
	Manager's comment	In the current situation where multi-functionality is expected for wire bonder optics and image processing, it is a function that can be expected to be differentiated.		Evaluation of invention B
Manager reception date	December 27, 2016	Manager	TOYAMA Hiromi	
Approval and decision of general manager	The proposed invention is approved as a employee invention:	Yes/No	If No, it is a business invention and the inventor can file a patent application individually.	
	Necessity for filing a patent application of the proposed invention:	Yes/No	If No, consider secret management as know-how.	
	Necessity of confidentiality management of the proposed invention:	Yes/No	If Yes, keep confidential in order to secure prior use right.	
	Necessity of early acquisition of patent rights:	Yes/No	If Yes, select one of the following (Japan, Taiwan, South Korea, China, Singapore, USA)	
To Inventor This is to inform you that the invention proposed by you has been certified as described above.				
General manager approval date	February 9, 2017	General manager of engineering division	FUJINO Noboru	

(*1) Please circle the applicable items. (Same for other columns)

(*2) Please enter the ranking of the inventor in numbers.

(*3) Please state the earliest known date of implementation of the present invention.

Exploitation of an invention means, in the invention of a product, any one of the actions such as production, use, assigning (whether with or without consideration), leasing, export or import, offer to sell (exhibition at an exhibition), etc.

(*4) If there are related prior applications or products that have already been commercialized, please describe the difference from them.

(*5) In case of regular application, PCT application and foreign application, please state the necessity.

General manager of engineering division	IP section
File	Do not file

株式会社新川 技術本部長 殿

発明提案書 兼 発明認定通知書

平成28年4月1日改定

届出日	2016年12月27日		* 知的財産課記入欄 受付番号		1828
知的財産の種類	(特許)・実用新案・意匠・ノウハウ・その他() (注1)		整理番号		1198P-XK-000
発明等の仮名称	位置検出用光学系の絞り切替機能				
社内提案者 (発明者等)	所属(部署名)	氏名	フリガナ(半角)	順位(注2)	
	研究開発部 研究課	湯澤浩也	ユザワヒロヤ	1	
	研究開発部	早田滋	ハヤタシゲル	2	
	研究開発部 研究課	服部裕斗	ハットリユウト	3	
社外提案者 (発明者等)	所属(機関名・部署名)	氏名	フリガナ(半角)	電話番号	共同出願の有無
					無
知的財産の概要 (発明のエッセンス)	光学系に絞り切替機構を付加することで、目的に応じた最適な絞りを選択し、最適な画像を得ることができる。精度向上、ロバスト性向上、検査精度向上、測定精度向上、新機能追加(三次元測定など)が可能になる。				
添付資料	出願明細書作成シート 無(別途送付)				
★知的財産権の会社帰属および同意 (職務発明取扱規程第3条)			確認印(当社提案者のみ)		
私(達)は、標記の発明(考案・意匠)に関する全ての権利が法の定めにより会社に帰属することを確認します。					
実施(発表)予定	<input checked="" type="radio"/> 有・無	実施(予定)日(注3)	2016年 4月 日	実施先:	
		実施(発表)形式:		実施装置: UTC-NEXT	
出願希望日		実施(発表)予定が無い場合の理由			
出願人	<input checked="" type="radio"/> 当社単独 <input type="radio"/> 他社と共同 (共同出願人:)・その他:				
希望出願形態	日本出願:	コア出願・補強出願・通常出願			
	PCT出願:	要(移行国:)・不要			
	外国出願:	要(移行国:)・不要			
	その他:				
知的財産提案の経緯(注4)・理由(注5)					
備考・連絡事項					
所属長評価	早期権利化	<input checked="" type="radio"/> 要 <input type="radio"/> 不要	要の理由:		発明の評価
	所属長コメント	ワイヤボンダ光学、画像処理に多機能を期待される現代において、差別化が期待できる機能である			B
所属長受付日	2016年12月27日		所属長		富山 弘己
本部長の認定・決定	本発明を職務発明と認定:	<input checked="" type="radio"/> 要 <input type="radio"/> 不要	不要の場合は、業務発明となり発明者は個人で出願が可能。		
	本発明の特許出願:	<input checked="" type="radio"/> 要 <input type="radio"/> 不要	不要の場合は、ノウハウとして秘匿管理を検討する。		
	本発明のノウハウ秘匿管理:	<input checked="" type="radio"/> 要 <input type="radio"/> 不要	要の場合は、先使用権確保のため秘匿管理する。		
	本発明の早期権利の取得:	<input checked="" type="radio"/> 要 <input type="radio"/> 不要	要の場合は、次のいずれかを選択 (日本・台湾・韓国・中国・シンガポール・米国)		
発明者殿 貴殿より提案がありました発明について上記のとおり通知致します。					
本部長認定日	2017年2月9日		技術本部長		藤野 昇

(注1) 該当項目をマルで囲んでください。(他の欄も同様)

(注2) 発明者の順位を数字で記載ください。

(注3) 本発明を実施した告知となる最先の日を記載ください。

発明の実施とは、物の発明では、その物を生産、使用、譲渡(有償無償は不問)、貸し出し、輸出又は輸入、譲渡の申し出(展示会へ出品)等の行為のいずれか一つでも該当した場合です。

(注4) 関連の先出願・既に製品化されたものがある場合は、それらとの違いも記載ください。

(注5) 通常出願、PCT出願及び外国出願の場合は、その必要性も記載ください。

技術本部長		知財課受付印
出 願	不 出 願	

PATENT

RECORDED: 05/09/2022

REEL: 059866 FRAME: 0337