505540424 06/24/2019

EPAS ID: PAT5587221

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
IKUYASU MIYAKO	06/16/2019
TSUTOMU ABE	06/16/2019

RECEIVING PARTY DATA

Name:	ALPS ALPINE CO., LTD.
Street Address:	1-7, YUKIGAYA-OTSUKAMACHI, OTA-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	145-8501

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16449941

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	19AS-020
NAME OF SUBMITTER:	KYOKO MACKILLOP
SIGNATURE:	/Kyoko MacKillop/
DATE SIGNED:	06/24/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 4

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PATENT REEL: 049566 FRAME: 0573 505540424

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PATENT REEL: 049566 FRAME: 0574

VERIFICATION OF TRANSLATION

I, Tadashige Itoh, a Patent Attorney of Tokyo, Japan having my office at 16th Floor, Marunouchi MY PLAZA (Meiji Yasuda Seimei Building), 1-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-0005 Japan do solemnly and sincerely declare that the English-language translation(s) in the attached combined declaration and assignment(s) is correct, true and faithful translation(s) to the best of my knowledge and belief.

Dated June 24, 2019

Tadashige Itoh

Patent Attorney
ITOH International Patent Office
16th Floor, Marunouchi MY
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PATENT REEL: 049566 FRAME: 0575

COMBINED DECLARATION AND ASSIGNMENT 特許出願宣言書及び譲渡証

本譲渡証は、(1)	、及び(2)	に居
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によるものであり、		
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. - -	1 - おんせきせん ナー・・ケート・ア	
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	、 服文パーは、工品を 出願、及びそこから得	
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そのためここに、受領を確認した5ドル及び有効にし て価値ある他の対価と引き換えに、譲渡人は、譲受人 ならびにその承継人、法定代理人及び(更なる)譲受 人に対して、上記発明及び特許証のための上記出願、 及び上記特許出願の全ての直接的及び開接的な分割出 顧、継続出願、継続審査及び一部継続出願、それらに 基づく合衆国及びにあらゆる全ての外国において付与 される全ての特許証、当該特許証の再発行、再審查及 び延長についての全ての権利、権原及び利益と、工業 所有権保護に関する国際条約上の全ての権利とを、本 譲渡が実施されなかった場合に譲渡人が保持・享受し たであろう場合と完全に同様に、特許証の存続期間及 び/又は延長期間が満了するまでの間、譲受人自らの 使用及び利益のために、またその承継人、法定代理人 及び (更なる) 譲受人の使用及び利益のために譲受人 により保持・享受されるように、売却、譲渡、移転、 設定しており、本書面によりこれを証する。

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に居 THIS ASSIGNMENT, by (1) lkuyasu MIYAKO, and (2) Tsutomu ABE (hereinafter referred to as "Assignors"), residing at (1) Miyagi, Japan, and (2) Miyagi, Japan, respectively;

WHEREAS, Assignors have made an invention entitled: APPARATUS AND METHOD FOR OBTAINING INFORMATION ON ROTATION OF DC COMMUTATOR MOTOR.

(Application	No	
filed)

set forth in a patent application for Letters Patent of the United States, either previously filed or executed concurrently herewith; and

WHEREAS, ALPS ALPINE CO., LTD. (hereinafter referred to as "Assignee"), having offices at 1-7.
Yukigava-otsukamachi, Ota-ku, Tokyo, 145-8501,
JAPAN, is desirous of acquiring the entire right, title and interest in and to said invention and said application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefor and thereon;

NOW, THEREFORE, in consideration of Five Dollars (\$5.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the abovementioned invention and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations, continued prosecutions, and continuationsin-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and Assignment not been made;

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution

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譲渡人は本書類を米国特許商標庁へ登録するための規則に従うために必要な又は望ましい更なる特定のための情報を本譲渡証に挿入する権限を以下のものに与える:カスタマーナンバー77464に関連づけられている全ての有資格者。

譲渡人は、本発明がなされた時点において当該発明を 譲受人へ譲渡する義務があったことを認める。

私/我々は以上の証として以下の適切な欄に署名を行 う。 and delivery of these presents, except for any rights, titles, and or interests that have arisen to Assignee under the law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to said invention and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said invention, without charge to Assignee, its successors, legal representatives, and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns shall advise; that any proceeding in connection with said invention, or said patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said invention in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation, continued prosecutions, or continuation-in-part of any application for Lefters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable;

AND Assignors hereby request that the Director of the United States Patent and Trademark Office issue said Letters Patent of the United States to Assignee, as Assignee of said invention and the said Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns;

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document; All practitioners associated with the Customer Number 77464.

AND Assignors acknowledge an obligation of assignment of this invention to Assignce at the time the invention was made.

IN TESTIMONY WHEREOF, I/WE have set our hand(s) in the appropriate space below.

P16-00504US00

宣喜街	<u>Declaration</u>
下記発明者である私は、以下を宣言します。	As a below named inventor, I hereby declare that:
本宣言は、以下を対象とする:	This declaration is directed to:
□ 添付の出願、あるいは□ 米国出顧番号又は PCT 国際出願番号として、の日に提出された出願。	The attached application, or United States application or PCT international application number
上記の出願は私自身、あるいは私が権限を授与したも のによって行われたものです。	The above-identified application was made or authorized to be made by me.
私は本出願に記載の発明に関する原初の発明者、ある いは原初の共同発明者です。	l believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
本宣審事において放意に虚偽の申し立てを行った場合は 18U.S.C.1001 により、罰金あるいは最高五(5)年の禁固刑、あるいはその両方による罰則の対象となることを承知しています。	I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fir or imprisonment of not more than five (5) years, or both.
注:本書面に必要な情報やサインは英語右欄のみに記入。 日本語左欄は英語原本理解のための参考情報。	Note: Insert the necessary information and signature for this form in the English column only. The Japanese column is reference information to aid understanding of the English.
Date(日付);	Jane 16, 2019
Legal Name of Inventor(発明者氏名):	Ikuyasu MIYAKO
Signature(発明者署名):	Ikuyasu MIYAKO: Itujusm MiyaKo
Logal Name of Inventor (発明者氏名):	June 16, 2019 Tsutomu ABE Toutonu Ohe
O	ICUI KAN I IIIP

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