506959191 11/03/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7006029

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
NORIYUKI TSUKADA	10/26/2021
RYOSUKE KUBO	10/11/2021
MASAHITO SEKINE	10/26/2021
SYUNSUKE KANAGAMI	10/04/2021
OSAMU TAKAHASHI	10/04/2021
TAKATERU SAWADA	09/27/2021
KENJI MAKINO	09/28/2021
SHOGO MAENAKA	09/27/2021

RECEIVING PARTY DATA

Name:	SUBARU CORPORATION	
Street Address:	1-20-8, EBISU, SHIBUYA-KU	
City:	TOKYO	
State/Country:	JAPAN	
Name:	AUTOLIV DEVELOPMENT AB	
Street Address:	WALLENTINSVAGEN 22	
City:	VARGARDA	
State/Country:	SWEDEN	
Postal Code:	44783	
Name:	PANASONIC CORPORATION	
Street Address:	1006, OAZA KADOMA, KADOMA-SHI	
City:	OSAKA	
State/Country:	JAPAN	
Postal Code:	571-8501	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17516135

CORRESPONDENCE DATA

Fax Number: (202)756-8087

PATENT REEL: 058013 FRAME: 0180

506959191

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: 202-756-8000

Email: rfeimster@mwe.com, ipdocketmwe@mwe.com,

wdcipptsclerks@mwe.com

Correspondent Name: TOMOKI TANIDA

Address Line 1: MCDERMOTT WILL & EMERY LLP
Address Line 2: 500 NORTH CAPITOL STREET, N.W.

Address Line 4: WASHINGTON, D.C. 20001

ATTORNEY DOCKET NUMBER:	EY DOCKET NUMBER: 086625-0056	
NAME OF SUBMITTER: RENELL FEIMSTER FOR TOMOKI TANIDA		
SIGNATURE:	/Renell Feimster for Tomoki Tanida/	
DATE SIGNED: 11/03/2021		

Total Attachments: 10

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: : Customer Number: 20277

Noriyuki TSUKADA et al.

•

Application No.: Not Yet Assigned : Confirmation No.: Not Yet Assigned

:

Filed: November 1, 2021 : Art Unit: N/A

:

For: VEHICLE DRIVING SYSTEM : Examiner: Not Yet Assigned

STATEMENT REGARDING ENGLISH TRANSLATION OF DECLARATION

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

I, Tomoki Tanida, am fluent in Japanese and I hereby certify that the attached English translation of the Declaration is an accurate translation.

Respectfully submitted,

MCDERMOTT WILL & EMERY LLP

/Tomoki Tanida/

Tomoki Tanida

Registration No. 60,453

500 North Capitol Street, N.W Washington, DC 20001

Phone: (202) 756-8196 TT:rgf Facsimile: (202) 756-8087 Date: November 1, 2021 Please recognize our Customer No. 20277 as our correspondence address.

COMBINED DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION 特許出願の宣誓書および譲渡書

As a below named inventor, I hereby declare that:

私は、下記に記名された発明者として、以下について宣誓する:

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VEHICLE DRIVING SYSTEM

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X	the attached application, or 添付された出願、または
	United States application number or PCT international application number
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ASSIGNMENT 譲渡書

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned, who have made a certain new and useful invention, hereby sell, assign and transfer unto

(1) <u>SUBARU CORPORATION</u>,

(2) AUTOLIV DEVELOPMENT AB, and

(3) PANASONIC CORPORATION

having an address at (1) 1-20-8, Ebisu, Shibuya-ku, Tokvo, Japan, (2) Wallentinsvagen 22, 44783 Vargarda, Sweden, and (3) 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501 Japan, respectively (hereinafter designated as the Assignee), its successors and assigns the entire right, title and interest for the United States of America as defined in 35 U.S.C. § 100 in the invention described in the application identified in this document, and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the Assignee, for its interest as Assignee, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in the application shall hereafter act on behalf of the Assignee;

新規かつ有用な発明をした署名者は、既述の事項および有効な約因が十分であることを確認し、ここに、上記の住所を持つ譲受人、その相続人および承継人に対し、この文書で特定された出願に開示された発明につき、35 U.S.C. §100 で定義されるアメリカ合衆国における、全ての権利、所有権、および利益を譲渡し、署名者は、特許庁長官に対し、その発明についての全ての米国特許権、および全ての存続期間の延長特許、分割出願の特許、再発行特許、代替出願の特許、更新出願の特許、継続出願の特許、または一部継続出願の特許の発行を要請し、さらに、工業所有権の保護に関する国際条約の下で認められる全ての利益に対する権利を、譲受人、その相続人、その承継人に譲渡および移転する。署名者は、本願の代理人が、譲受人を代理することに同意する。

AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the Assignee, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the Assignee, its successors, assigns and legal representatives, deemed essential to Assignee's full protection and title in and to the invention hereby transferred.

署名者は、類似の権利を譲渡することに同意し、譲受人、その相続人、承継人、および法定代理人の求めにより、さらなる報酬を要求することなく、上記発明に関連して得られる改良発明、その改良発明に基づく特許出願について、出願の作成、最初の特許、その分割出願の特許、再発行特許、および延長特許を米国において取得するための全ての必要な援助を行うこと同意すると共に、譲受人、その相続人、承継人、および法定代理人によって作成された、譲受人がここで譲渡される発明の保護と権利に必須と思われるいかなる文書に署名することに同意する。

Noriyuki TSUKADA	
First inventor's signature	Date
/Noriyuki TSUKADA/	10/26/2021
Legal name of second inventor Ryosuke KUBO	
Second inventor's signature	Date
/Ryosuke KUBO/	10/11/2021
Legal name of third inventor Masahito SEKINE	
Third inventor's signature	Date
/Masahito Sekine/	10/26/2021
Legal name of fourth inventor Syunsuke KANAGAMI	
Fourth inventor's signature	Date
Legal name of fifth inventor	<u> </u>
Osamu TAKAHASHI	
Fifth inventor's signature	Date
Legal name of sixth inventor Takateru SAWADA	
Sixth inventor's signature	Date
Legal name of seventh inventor	- Landinananananananananananananananananana
Kenji MAKINO	
Seventh inventor's signature	Date
Legal name of eighth inventor	J
Shogo MAENAKA Eighth inventor's signature	Date
nagam myentor v signature	19816
Legal name of ninth inventor	J
Ninth inventor's signature	Date
Legal name of tenth inventor	.
Tenth inventor's signature	Date

COMBINED DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION 特許出願の宣誓書および譲渡装

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VEHICLE DRIVING SYSTEM

この實	餐费は:		
Ø	the attached application, or 添付された出願、または		
	United States application number or PCT international application numberfiled on		
	に出願された米国出願もしくは PCT 国際出願番号に宛てられている。		

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

上記の出願は、私自身、または私が権限を授与したものによって行われたものである。

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(3) PANASONIC CORPORATION

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Legal name of first inventor		
Noriyuki TSUKADA		
First inventor's signature	Date	
Legal name of second inventor	i and a second	
Ryosuke KUBO		
Second inventor's signature	Date	
Legal name of third inventor		
Masahito SEKINE		
Third inventor's signature	Date:	
F F		
Legal name of fourth inventor		
Syunsuke KANAGAMI		
Fourth inventor's signature	Date	
City was the King DAG	Oct. 4. 202/	
Legal namy of fifth inventor	V61 7 1402/	
Osamu TAKAHASHI		
Pitth inventor's signature	Date	
rum myenin s signame:	* -	
Osamu Takahashi	(0/04/2021-	
Legal name of sixth inventor		
Takateru SAWADA		
Sixth inventor's signature	Date	
Legal name of seventh inventor		
Kenji MAKINO		
Seventh inventor's signature	Date	
Legal name of eighth inventor		
Shogo MAENAKA		
Eighth inventor's signature	Date	
Kilkuta myetany s zigiatate	tente	
Legal name of ninth inventor		
Ninth inventor's signature	Date	
and the contract of the contra	7 T T T	
Legal name of tenth inventor		
Tenth inventor's signature	Date	
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COMBINED DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION

特許出願の宣誓書および譲渡書

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First inventor's signature	Date
Legal name of second inventor	
Ryosuke KUBO	
Second inventor's signature	Date
Legal name of third inventor	
Masahito SEKINE	
Third inventor's signature	Date
Legal name of fourth inventor	
Syunsuke KANAGAMI	
Fourth inventor's signature	Date
Legal name of fifth inventor	
Osamu TAKAHASHI	
Fifth inventor's signature	Date
-	
N	<u> </u>
Legal name of sixth inventor Takateru SAWADA	
Sixth inventor's signature	Date
Giam myentor s signamic	Date
/Takateru SAWADA/	Sep.27,2021
Legal name of seventh inventor	······································
Kenji MAKINO	
Seventh inventor's signature	Date
/Kenji MAKINO/	Sep.28,2021
Legal name of eighth inventor	
Shogo MAENAKA	
Eighth inventor's signature	Date
/Shogo MAENAKA/	Sep.27,2021
Legal name of ninth inventor	
Ninth inventor's signature	Date
Legal name of tenth inventor	
Tenth inventor's signature	Date

RECORDED: 11/03/2021