04/12/2019 505424751

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHOUGO SATO	12/06/2016
YASUO FUKAMACHI	12/06/2016
MOTOAKI MUSHIKA	12/06/2016
KAZUNA TAGUCHI	12/06/2016

RECEIVING PARTY DATA

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Postal Code:	467-8561

PROPERTY NUMBERS Total: 1

Property Type	Number		
Application Number:	16382442		

CORRESPONDENCE DATA

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Address Line 4: MINNEAPOLIS, MINNESOTA 55402-0903

ATTORNEY DOCKET NUMBER:	04491.0076FPC2
NAME OF SUBMITTER:	MARK L. GLEASON
SIGNATURE:	/Mark L. Gleason/
DATE SIGNED:	04/12/2019

Total Attachments: 1

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PATENT REEL: 048868 FRAME: 0677 505424751

2016-00471 US/57EL01

ASSIGNMENT

		(1)	Shougo SATO	(5)
(1-8) Insert		(2)	Yasuo FUKAMACHI	(6)
	Name(s) of Inventor(s)	(3)	Motoaki MUSHIKA	(7)
		(4)	Kazuna TAGUCHI	(B)
			In consideration of the sum o of the undersigned, the undersig	one dollar (\$1.00) and other good and valuable considerations paid to each ned agree(s) to assign, and hereby does assign, transfer and set over to
(9)	Insert Name of Assignee	(9)	BROTHER KOGYO KABUSH	KI KAISHA
(10)	Insert Address of Assignee	(10)	15-1 Naeshiro-cho, Mizuho-ku	Nagoya, Aichí 467-8561, Japan
(11)	(11) Insert Identification ⁽¹¹⁾		as defined in 35 U.S.C. §100, provisional, non-provisional, div Patent, extensions, reissues an	ssignee) the entire right, title and interest for the United States of America in the invention, and in all applications for patent including any and all sional, continuation, substitute, and reissue application(s), and all Letters reexamination certificates that may be granted on the invention known as
	of Invention such as Title, Case Number, or Foreign Application Number		(Attorney Docket No.	04491.0076FP01 lave) executed an application for patent in the United States of America
(12)	Insert Date of Signing of Application	(12)	0-0-6	
(13)	Alternative	(13)	U.S. application Serial Number	16/382,442
	Identification for filed applications		filed	April 12, 2019
reissue	The undersigned applications for the in	agre	ee(s) to execute all papers nece on, and any patent(s) issuing the	sary in connection with any application and any continuing, divisional or reon, and also to execute separate assignments in connection with such

applications and patents as the Assignees may deem necessary.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreements in conflict

6) The undersigned hereby grant(s) the firm of Merchant & Gould P.C. 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.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	Dec. 6,20/6	Name of Inventor Slonge Sale	(SEAL)
Date	Dec. 6, 2016	Shougo SATO Marme of Inventor Yasuo FUKAMACHI	(SEAL)
Date	Dec. 6,2016	Name of Inventor Motoaki Mushika	(SEAL)
Date	Dec. 6, 20/6	Motoaki MUSHIKA Name of Inventor <u>Keyna Jeuguhí</u> Kazuna TAGUCHI	(SEAL)
Date		Name of Inventor	(SEAL)

PATENT REEL: 048868 FRAME: 0678