

## PATENT ASSIGNMENT COVER SHEET

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<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KAWASAKI JUKOGYO KABUSHIKI KAISHA	07/02/2018
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
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<b>DATE SIGNED:</b>	07/16/2018
<b>Total Attachments: 2</b>	
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## ASSIGNMENT

WHEREAS, Kawasaki Jukogyo Kabushiki Kaisha, a company established under the laws of Japan whose address is 1-1, Higashikawasaki-cho 3-Chome, Chuo-ku, Kobe-shi, Hyogo-ken, Japan, and National Institute of Advanced Industrial Science and Technology, a company established under the laws of Japan, whose address is 3-1, Kasumigaseki 1-Chome, Chiyoda-ku, Tokyo-to, Japan, are the co-owners of United States Patent 7,204,077 by assignment from the Inventors, which assignment is duly recorded in the United States Patent and Trademark Office at the Reel and Frame indicated below:

<u>Application or Patent Number</u>	<u>Named Inventors</u>	<u>Reel and Frame</u>
10/529,488	Kazuo Tanaka Seiji Yamashita Eiichi Harada Norihiko Iki Sanyo Takahashi Hirohide Furutani	016892 / 0414

The undersigned has reviewed all the documents in the chain of title identified above; and to the best of the undersigned's knowledge and belief, title of United States Patent No. 7,204,077 is shared between Kawasaki Jukogyo Kabushiki Kaisha and National Institute of Advanced Industrial Science and Technology. The undersigned is empowered to sign this Assignment on behalf of Kawasaki Jukogyo Kabushiki Kaisha (hereinafter "Assignor").

WHEREAS, National Institute of Advanced Industrial Science and Technology (hereinafter "Assignee") is desirous of acquiring the right, title and interest for the United States, its territories, dependencies and possessions, in and to U.S. Patent No. 7,204,077.

Now, To All Whom It May Concern: Be it known that for and in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor has sold, assigned, transferred and set over, and does hereby sell, assign, transfer and set over, unto Assignee, its successors, assigns and legal representatives, all its right, title and interest in and to U.S. Patent No. 7,204,077; the same to be held and enjoyed by Assignee, its successors, assigns and legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignor had this assignment and sale not been made, together with all claims for damages by reason of past infringement of said Patent Properties with the right to sue for and collect the same for its own use and for the use of its successors, assigns and legal representatives.

Assignor agrees that this assignment is binding on Assignor and its successors, assigns and legal representatives.

Assignor authorizes and requests the Commissioner of Patents and Trademarks of the United States to issue any Letters Patent of the United States, resulting from said Patent Properties to Assignee.

Assignor agrees to execute all papers necessary in connection with any interference which may be declared concerning said Patent Properties (and/or patents that may be granted therefrom), and to cooperate with Assignee in every way possible in obtaining evidence and going forward with such interference.

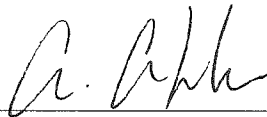
Assignor covenants that it has full right to convey the interest herein assigned and that it has not executed and will not execute any agreement in conflict herewith.

Assignor agrees 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.

Assignor agrees 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 Assignee.

Assignor grants the firm of OLIFF PLC of Alexandria, Virginia 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.

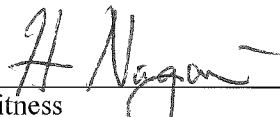
This Assignment is effective as of the 2nd day of July, 2018.



Witness  
Akira AKAOKA  
1-6-6, Marunouchi, Chiyoda-ku,  
Tokyo 100-0005 JAPAN



Signature  
Officer of Assignor



Witness  
Hiroshi NAGAI  
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Tokyo 100-0005 JAPAN

Makoto FUKUOKA  
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Senior Manager of Intellectual Property  
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Title of Officer