

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HIROYUKI KAWADU	07/05/2012
ICHIRO YAMAGUCHI	07/05/2012
SHUJI HAGIWARA	07/05/2012
SHOJI ENDO	07/05/2012
TOKUICHIRO OJIMA	07/05/2012
RECEIVING PARTY DATA	
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13529836
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NAME OF SUBMITTER:	DAVID C. READ
SIGNATURE:	/David C. Read/
DATE SIGNED:	06/04/2015
Total Attachments: 2	

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ASSIGNMENT

Serial No: 13/529,836

Filed: June 21, 2012

Title: PULSE ROCKET MOTOR

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assign to IHI AEROSPACE CO., LTD., 1-1, Toyosu 3-chome, Koto-ku, Tokyo 135-0061, Japan (hereinafter "Assignee"), its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for letters patent of the United States, executed by the undersigned on,

July 5, 2012

and in said application and any and all other applications, both in the United States and in other countries, which the undersigned may file or be named as an inventor, either solely or jointly with others, on said invention or improvements, and in any and all letters patent of the United States and other countries, which may be obtained on any of said applications, and in any reissue or extension thereof.

The undersigned hereby authorize and request the Commissioner for Patents to issue said letters patent to said Assignee.

The undersigned hereby authorize and request that the attorneys of record in said application insert in this assignment the execution date and/or filing date and serial number of said application when officially known.

The undersigned warrant themselves to be the owners of the interest herein assigned and to have the right to make this assignment and further warrant that there are no outstanding prior assignments, licenses, or other rights in the interest herein assigned except in favor of Assignee.

For said consideration the undersigned hereby agree, upon the request and at the expense of said Assignee, its successors and assigns, to execute any and all applications on said invention or improvements, and any necessary oath or affidavit relating thereto, and any application for the reissue or extension of any letters patent that may be granted upon any and all of said applications, and any and all applications and other documents for letters patent in other countries on said invention or improvements, that said Assignee, its successors or assigns, may deem necessary or expedient, and for said consideration the undersigned further agree upon the request of said Assignee, its successors or assigns, in the event of any

application or letters patent assigned herein becoming involved in Interference or Opposition, to cooperate to the best of the ability of the undersigned with said Assignee, its successors or assigns, in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof, the undersigned hereby agreeing to perform, upon request, any and all affirmative acts to obtain said letters patent, both in the United States and in other countries, and vest all rights therein hereby conveyed in said Assignee, its successors and assigns, whereby said letters patent will be held and enjoyed by said Assignee, its successors and assigns, to the full end of the term for which said letters patent may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment and sale had not been made.

Date: 2012.07.05 Signature: *Hiroyuki Kawadu*
Hiroyuki KAWADU

Date: 2012.07.05 Signature: *Ichiro Yamaguchi*
Ichiro YAMAGUCHI

Date: 2012.07.05 Signature: *Shuji Hagiwara*
Shuji HAGIWARA

Date: 2012.07.05 Signature: *Shoji Endo*
Shoji ENDO

Date: 2012.07.05 Signature: *Tokuichiro Ojima*
Tokuichiro OJIMA