

A. 101864438 HEET FOR PATENTS

Commissioner of Patents and Trademarks Washington, D.C. 20231

Attention: Assignment Division

Please record the attached original documents or copy thereof.

(1) Conveying Party(ies): Jonathan W. Campbell

(2) Receiving Party(ies): National Aeronautics and Space Administration

Washington, D.C. 20546

(3) Nature of Conveyance: Assignment

Execution Date: September 19, 2001

Application Number: NASA Case No.: MFS-31611 -1

Application Title: Improved Apparatus for Generating Thrust Using a Two Dimensional,

Asymmetrical Capacitor Module

This document is being filed together with a new patent application for letters patent. The execution date of the application is: <u>September 19, 2001</u>

(5) Name and address of party to whom correspondence concerning document should be

mailed:

(4)

National Aeronautics and Space Administration

Attn: LS01/James J. McGroary

Marshall Space Flight Center, AL 35812

(6) Total number of applications involved: 1(One)

(7) Total fee (37 CFR 3.41): \$40.00. Authorized to be charged to deposit account.

(8) Deposit account number: 14-0116

(9) To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. This cover sheet consists of one page.

Respectfully,

James J. McGroary

Registration No. 38,960

(Dai

Enclosure(s):

NASA FORM 430

ADDITIONAL COPY OF THIS FORM

10/02/2001 LMUELLER 00000242 140116 09961552

01 FC:581

40.00 CH

Express Mail ET346306682US

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service of Express Mail in an envelope aid essee to Commissioner of Patents and Trademarks, Washington, D.C. to the date of tignature below.

Date: 90000 Signature: 9000 Reference of Patents and Trademarks, Washington, D.C.

REEL: 012209 FRAME: 0170



Title of Invention:

Assignment to the Government (by Government Employee)

Improved Apparatus for Generating Thrust Using a Two Dimensional, Asymmetrical Capacitor

Inventor(s): Jonathan W. Campbell MRS-31611-1 Application No.*: Filling Date*: MHEREAS, the parties to this Assignment and Agreement are the undersigned inventor(s) and the United States Government (hereafter Government), as represented by the Administrator of the National Aeronautics and Space Administration: WHEREAS, the making of this Assignment and Agreement is in accordance with 37 CFR Part 501; and WHEREAS, the undersigned inventor(s) has (have) executed, on the date(s) indicated below, an application for Units States Patent on the above-entitled invention. NOW THEREORE, in consideration of employment by the Government, the undersigned hereby: 1. Assign to the Government my (our) full and exclusive right in and to said invention within the United States of America, its tentrories and possessions, and my (our) entire right, title and interest in and to said application, and an observe on the discontance with 37 CFR 501.9(d), including rights of priority under the International Convention of Paris (1883), as amended. If the Government chooses not to file an application in any foreign country, I (we) may request rights in the country, in accordance with 37 CFR 501.9(d), and such rights will be subject to the reservation to the Government on the Rovernment of the Government of		Module			
NHEREAS, the parties to this Assignment and Agreement are the undersigned inventor(s) and the United States 30 overmment (hereafter Government), as represented by the Administrator of the National Aeronautics and Space Administration; NHEREAS, the making of this Assignment and Agreement is in accordance with 37 CFR Part 501; and NHEREAS, the undersigned inventor(s) has (have) executed, on the date(s) indicated below, an application for Unit States Patent on the above-entitled invention. NOW THEREFORE, in consideration of employment by the Government, the undersigned hereby: 1. Assign to the Government my (our) full and exclusive right in and to said invention within the United States of America, its territories and possessions, and my (our) entire right, title and interest in and to said application, and are coordance with 37 CFR 501.9(d), including rights of priority under the International Convention of Paris (1883), as amended. If the Government chooses not to file an application in any foreign country, I (we) may request rights in the country, in accordance with 37 CFR 501.9(d), and such rights will be subject to the reservation to the Government and purposes. The terms of such reservation will appear, where practicable, in any foreign patent which may issue on sunvention. 3. Agree, at the expense of the Government, (a) to execute any document for, (b) to deliver any requested information to, and (c) to cooperate in any manner with the Government in order to allow the Government to protect interest transferred by this Assignment and Agreement. 4. Authorize and request the attorages of record in the application to insert the application number and filling databaye when regulated. (Mailing Address - Including Country) (Carle Application Executed) (Date Application Executed) (Carle Application E	nventor(s):	Jonathan W. Campbell			
AVHEREAS, the making of this Assignment and Agreement is in accordance with 37 CFR Part 501; and WHEREAS, the undersigned inventor(s) has (have) executed, on the date(s) indicated below, an application for Unitates Patent on the above-entitled invention. NOW THEREFORE, in consideration of employment by the Government, the undersigned hereby: 1. Assign to the Government my (our) full and exclusive right in and to said invention within the United States of America, its territories and possessions, and my (our) entire right, title and interest in and to said application, and an orresponding continuation or divisional application(s) and any patent(s) that may issue therefrom. 2. Agree to grant to the Government my (our) full and exclusive foreign rights in and to said invention, in accordance with 37 CFR 501.9(d), including rights of priority under the International Convention of Paris (1883), as immended. If the Government chooses not to file an application in any foreign country, I (we) may request rights in the bountry, in accordance with 37 CFR 501.9(d), and such rights will be subject to the reservation to the Government bourposes. The terms of such reservation will appear, where practicable, in any foreign patent which may issue on survention. 3. Agree, at the expense of the Government, (a) to execute any document for, (b) to deliver any requested information to, and (c) to cooperate in any manner with the Government in order to allow the Government to protect interest transferred by this Assignment and Agreement. 4. Authorize and request the attorgeys of record in the application to insert the application number and filing databaye when registed. (Signature of Inventor) (Date Assignment Executed) (Date Application Executed) (Date Application Executed) (Date Application Executed) (Date Application Executed) (Cate Application E	NASA Case No.:	MFS-31611-1	Application No.*:	Fili	ng Date*:
WHEREAS, the undersigned inventor(s) has (have) executed, on the date(s) indicated below, an application for Unitiates Patent on the above-entitled invention. IOW THEREFORE, in consideration of employment by the Government, the undersigned hereby: 1. Assign to the Government my (our) full and exclusive right in and to said invention within the United States of wherica, its territories and possessions, and my (our) entire right, title and interest in and to said application, and an orresponding continuation or divisional application(s) and any patent(s) that may issue therefrom coordance with 37 CFR 501.9(d), including rights of priority under the International Convention of Paris (1883), as mended. If the Government chooses not to file an application in any foreign country, I (we) may request rights in the contry, in accordance with 37 CFR 501.9(d), and such rights will be subject to the reservation to the Government conexclusive, irrevocable, royalty-free license in the invention with power to grant licenses for all governmental urposes. The terms of such reservation will appear, where practicable, in any foreign patent which may issue on superition. 3. Agree, at the expense of the Government, (a) to execute any document for, (b) to deliver any requested information to, and (c) to cooperate in any manner with the Government in order to allow the Government to protect necest transferred by this Assignment and Agreement. 4. Authorize and request the attorneys of record in the application to insert the application number and filing database when regulated. (Gignature of Inventor) (Date Assignment Executed) (Date Application Executed) (Date Application Executed) (Cart Fire CATE OF MAILING (Gignature of Inventor) (Cater Assignment Executed) (Date Application Executed) (Date Application Executed) (Date Application Executed) (Cater Application Country) (Cater Application Country) (Cater Application Country) (Mailing Address - Including Country)	overnment (herea	rties to this Assignm Ifter Government), a	nent and Agreement are the unders as represented by the Administrato	signed inventor(or of the Nationa	(s) and the United States I Aeronautics and Space
interest Patent on the above-entitled invention. IOW THEREFORE, in consideration of employment by the Government, the undersigned hereby: 1. Assign to the Government my (our) full and exclusive right in and to said invention within the United States of merica, its territories and possessions, and my (our) entire right, title and interest in and to said application, and an orresponding continuation or divisional application(s) and any patent(s) that may issue therefrom. 2. Agree to grant to the Government my (our) full and exclusive foreign rights in and to said invention, in coordance with 37 CFR 501.9(d), including rights of priority under the International Convention of Paris (1883), as mended. If the Government chooses not to file an application in any foreign country, I (we) may request rights in the ountry, in accordance with 37 CFR 501.9(d), and such rights will be subject to the reservation of the Government onexclusive, irrevocable, royalty-free license in the invention with power to grant licenses for all governmental urposes. The terms of such reservation will appear, where practicable, in any foreign patent which may issue on subvention. 3. Agree, at the expense of the Government, (a) to execute any document for, (b) to deliver any requested information to, and (c) to cooperate in any manner with the Government in order to allow the Government to protect interest transferred by this Assignment and Agreement. 4. Authorize and request the attorneys of record in the application to insert the application number and filling database when requested. (Inventor's Typed Name) (Mailing Address - Including Country) (Cate Assignment Executed) (Date Application Executed) (Inventor's Typed Name) (Mailing Address - Including Country) (Certificate Of Mailling (Gignature of Inventor) (Mailing Address - Including Country) (Certificate Of Mailling (Mailing Address - Including Country)	VHEREAS, the ma	ıking of this Assignr	nent and Agreement is in accorda	nce with 37 CFF	R Part 501; and
1. Assign to the Government my (our) full and exclusive right in and to said invention within the United States of inventica, its territories and possessions, and my (our) entire right, title and interest in and to said application, and an orresponding continuation or divisional application(s) and any patent(s) that may issue therefrom. 2. Agree to grant to the Government my (our) full and exclusive foreign rights in and to said invention, in accordance with 37 CFR 501.9(d), including rights of priority under the International Convention of Paris (1883), as immended. If the Government chooses not to file an application in any foreign country, I (we) may request rights in the ountry, in accordance with 37 CFR 501.9(d), and such rights will be subject to the reservation to the Government of inventions, in inventions, in the invention with power to grant licenses for all government of inventions. 3. Agree, at the expense of the Government, (a) to execute any document for, (b) to deliver any requested information to, and (c) to cooperate in any manner with the Government in order to allow the Government to protect interest transferred by this Assignment and Agreement. 4. Authorize and request the attorneys of record in the application to insert the application number and filing databove when required. (Inventor's Typed Name)				e(s) indicated b	elow, an application for Unite
Accordance with 37 CFR 501.9(d), including rights of priority under the International Convention of Paris (1883), as amended. If the Government chooses not to file an application in any foreign country, I (we) may request rights in the invention, in accordance with 37 CFR 501.9(d), and such rights will be subject to the reservation to the Government of connexclusive, irrevocable, royalty-free license in the invention with power to grant licenses for all governmental purposes. The terms of such reservation will appear, where practicable, in any foreign patent which may issue on such reservation. 3. Agree, at the expense of the Government, (a) to execute any document for, (b) to deliver any requested information to, and (c) to cooperate in any manner with the Government in order to allow the Government to protect interest transferred by this Assignment and Agreement. *4. Authorize and request the attorneys of record in the application to insert the application number and filling databove when required. (Signature of Inventor) (Signature of Inventor) (Railing Address - Including Country) (Cate Assignment Executed) (Date Application Executed) (Date Application Executed) (Cate Appli	 Assign to the America, its territori 	e Government my (dies and possessions	our) full and exclusive right in and t s, and my (our) entire right, title an	to said inventior d interest in and	n within the United States of If to said application, and any
Information to, and (c) to cooperate in any manner with the Government in order to allow the Government to protect interest transferred by this Assignment and Agreement. *4. Authorize and request the attorneys of record in the application to insert the application number and filing databove when required. *4. Authorize and request the attorneys of record in the application to insert the application number and filing databove when required. *6. (Signature of Inventor) *6. (Date Assignment Executed) *7. (Date Application Executed) *6. (Mailing Address - Including Country) *6. (Country of Inventor) *6. (Signature of Inventor) *6. (Mailing Address - Including Country) *6. (Country of Inventor) *6. (Signature of Inventor) *6. (Signature of Inventor) *6. (Signature of Inventor) *6. (Signature of Inventor) *6. (Mailing Address - Including Country) *6. (Country of Inventor) *6. (Signature of Inventor) *6. (Mailing Address - Including Country) *6. (Signature of Inventor) *6. (Mailing Address - Including Country) *6. (Signature of Inventor) *6. (Mailing Address - Including Country)	accordance with 37 amended. If the Go country, in accordance onexclusive, irrevolutions. The terminvention.	CFR 501.9(d), inclovernment chooses nce with 37 CFR 50 ocable, royalty-freens of such reservation	luding rights of priority under the In not to file an application in any fore 01.9(d), and such rights will be sub license in the invention with power on will appear, where practicable, i	nternational Con eign country, I (v ject to the reser r to grant license n any foreign pa	vention of Paris (1883), as we) may request rights in tha vation to the Government of es for all governmental atent which may issue on suc
(Signature of Inventor) (Signature of Inventor) (Date Assignment Executed) (Date Application Executed) (Date Application Executed) (Date Application Executed) (Inventor's Typed Name) (Signature of Inventor) (Mailing Address - Including Country) (Inventor's Typed Name) (Mailing Address - Including Country) (CERTIFICATE OF MAILING (Signature of Inventor) (Mailing Address - Including Country) CERTIFICATE OF MAILING (Signature of Inventor) (Signature of Inventor) (Signature of Inventor) (Signature of Inventor) (Mailing Address - Including Country) (Signature of Inventor) (Mailing Address - Including Country) (Inventor's Typed Name) (Mailing Address - Including Country)	nformation to, and	(c) to cooperate in	any manner with the Government i	ament for, (b) to in order to allow	deliver any requested
(Signature of Inventor) (Signature of Inventor) (Inventor's Typed Name) (Signature of Inventor) (Signature of Invento			t and Agreement.		the Government to protect a
P.O. Box 295, Harvest, AL 35749 USA				insert the appli	
(Inventor's Typed Name) (Signature of Inventor) (Date Assignment Executed) (Date Application Executed) (Inventor's Typed Name) (Mailing Address - Including Country) CERTIFICATE OF MAILING (Signature of Inventor) (Mailing Address - Including Country)				insert the appli	
(Signature of Inventor) (Inventor's Typed Name) (Mailing Address - Including Country) CERTIFICATE OF MAILING (Signature of Inventor) (Signature of Inventor) as Express Main in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D. 20231 on the date of signature below. (Inventor's Typed Name) 9/2000. Signature: (Mailing Address - Including Country)	bove when require	ed.	neys of record in the application to	9 - 0 / ent Executed)	cation number and filing date 9-/9-0/ (Date Application Executed)
(Inventor's Typed Name) (Mailing Address - Including Country) CERTIFICATE OF MAILING (Signature of Inventor) (Signature of Inventor) As Express Mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D. 20231 on the date of signature below. (Inventor's Typed Name) 9/2000 Signature. (Mailing Address - Including Country)	bove when require	ed.	peys of record in the application to (Date Assignment P.O. Box 295, Harvest	9 - 0 / ent Executed) :, AL 35749	cation number and filing date 9-/9-0/ (Date Application Executed)
(Signature of Invertor) by certify that this comme pondence is being deposed from the United Sates Posta Service as Express Main in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D 20231 on the date of signature below. (Inventor's Typed Name) 9/2000. Signature: (Mailing Address - Including Country)	bove when require Signature of Invento Ionathan W. Camp	ed.	peys of record in the application to (Date Assignment P.O. Box 295, Harvest	9 - 0 / ent Executed) :, AL 35749	cation number and filing date 9-/9-0/ (Date Application Executed)
as Express Main in an envelope audicited to: Commissioner of Patents and Trademarks, Washington, D 20231 on the date of signature below. (Inventor's Typed Name) 9/2000 Signature. (Mailing Address - Including Country)	(Signature of Invento Jonathan W. Camp (Inventor's Typed Na	or) obell ame)	peys of record in the application to (Date Assignment of Mailing Address - Including	ent Executed) AL 35749 ing Country)	cation number and filing date 9-/9-0/ (Date Application Executed)
(Inventor's Typed Name) 9/20/01 Sanatuse (Mailing Address - Including Country)	(Signature of Invento (Inventor's Typed Na (Signature of Inventor)	ed. or) obell ame)	P.O. Box 295, Harvest (Mailing Address - Including Address - Inclu	ent Executed) a, AL 35749 ing Country) ent Executed)	cation number and filing date 9-/9-0/ (Date Application Executed) USA
	(Signature of Inventor) (Signature of Inventor) (Inventor's Typed National (Signature of Inventor) (Signature of Inventor) (Signature of Inventor) (Signature of Inventor)	ed. or) obell me) Yeby certify that texpress Main in an e	P.O. Box 295, Harvest (Mailing Address - Including Address - Inclu	ent Executed) ent Executed) ent Executed) ent Executed) ing Country) = MAILING	Cation number and filing date 9-19-01 (Date Application Executed) USA (Date Application Executed)

Express Mail ET346306682US

RECORDED: 09/20/2001

PATENT REEL: 012209 FRAME: 0171