



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

12-10-2002

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



ASSIGNMENT (DOCUMENT) COVER SHEET (37 C.F.R. § 3.31)

Attached please find an assignment (document) for recordal.

IDENTIFICATION OF APPLICATION(S) AND/OR PATENT(S) FOR ASSIGNMENT (DOCUMENT) RECORDAL (37 C.F.R. § 3.21 and 37 C.F.R. § 3.31(a)(4))

- 1. This assignment is for the following patent application and/or issued patent:
 - a. National application: SN: 10/214,481, filed on August 2, 2002

TOTAL NUMBER OF APPLICATIONS AND/OR PATENTS AND TOTAL FEE

- The total number of applications and/or patents identified in this cover sheet is: 1. 2. A.
 - The total fee is (37 C.F.R. Section 1.21(h)): B. $1 \times \$40.00 = \40.00
 - C. Payment of fee is made by:

Authorization is hereby made to charge the amount of \$40.00 to Deposit Account

Charge any additional fees required by this paper or credit any overpayment in the manner authorized above.

A duplicate of this paper is attached.

{00005706:1 }

CERTIFICATION UNDER 37 C.F.R. §§ 1.8(a) and 1.10*

I hereby certify that, on the date shown below, this correspondence is being:

deposited with the United States Postal Service in an envelope addressed to the Commissioner for Patents, Washington D.C. 20231 37 C.F.R. § 1.10* 37 C.F.R. § 1.8(a) as "Express Mail Post Office to Addressee" x with sufficient postage as first class mail.

Date: 11-25-02

Elaine C. McMahon

Assignment (Document) Cover Sheet--page 1 of 3

PATENT REEL: 013548 FRAME: 0397

FC:8021

NAME OF PARTIES CONVEYING INTEREST (37 C.F.R. § 3.31(a)(1))

3. The parties conveying interest are:

Daniel D. Mazanek John C. Mankins

NAME AND ADDRESS OF PARTY(IES) RECEIVING INTEREST (37 C.F.R. § (a)(2))

4. The rights are being conveyed to:

National Aeronautics and Space Administration Washington, D.C. 20546-0001

DESCRIPTION OF INTEREST CONVEYED OR TRANSACTION RECORDED (37 C.F.R. § 3.31(a)(3))

5. The accompanying document intends to accomplish an assignment.

NAME AND ADDRESS OF PARTY TO WHOM CORRESPONDENCE SHOULD BE MAILED (37 C.F.R. § 3.31 (a)(5))

6. Please address correspondence to:

Name: Kurt G. Hammerle

Address: NASA Langley Research Center

Mail Stop 212

3 Langley Boulevard Hampton, VA 23681

Telephone No.: 757-864-2470

DATE ASSIGNMENT (DOCUMENT) EXECUTED (37 C.F.R. § 3.31(a)(7))

7. The attached assignment (document) was executed by Daniel D. Mazanek on August 2, 2002. The attached assignment (document) was executed by John C. Mankins on August 13, 2002.

LANGUAGE OF ASSIGNMENT (DOCUMENT) TO BE RECORDED

8. The attached document is in the English language.

ORIGINAL DOCUMENT OR TRUE COPY SUBMITTED

9. Submitted herewith is the original document.

{00005706:1} Assignment (Document) Cover Sheet--page 2 of 3

PATENT REEL: 013548 FRAME: 0398

STATEMENT (37 C.F.R. § 3.31(a)(9)) AND SIGNATURE (37 C.F.R. § 3.31(a)(10))

10. 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.

Kurt G. Hammerle Registration No. 36,819 NASA Langley Research Center Mail Stop 212 3 Langley Boulevard Hampton, VA 23681

Hurt J. Hammerle

757-864-2470 Customer No. 23351

TOTAL NUMBER OF PAGES BEING SUBMITTED

11. The total number of pages being submitted, including documents is: 4.





Assignment to the Government (by Government Employee)

		, ,			•	
Title of Invention:	REUSABLE MODULE FOR THE STORAGE, TRANSPORTATION, AND SUPPLY OF					
	MULTIPLE PROPELLANTS IN A SPACE ENVIRONMENT					
Inventor(s):	Daniel D. Mazanek and John C. Mankins					
NASA Case No.:	LAR 16237-1	Application No.*:	10/214,	481	Filing Date*:	08/02/2002
		ent and Agreement a represented by the				
WHEREAS, the ma	king of this Assignme	ent and Agreement is	s in accordan	ice with 37	CFR Part 501; ar	nd
	dersigned inventor(s) e above-entitled inve	has (have) executed ntion.	d, on the date	e(s) indicat	ed below, an appl	cation for United
 Assign to the America, its territori 	e Government my (ou es and possessions,	employment by the (ir) full and exclusive and my (our) entire application(s) and ar	right in and to right, title and	o said inve d interest ir	ntion within the Ur n and to said appli	
accordance with 37 amended. If the Go country, in accordan nonexclusive, irrevo	CFR 501.9(d), including vernment chooses not concern with 37 CFR 501 acable, royalty-free licenses.	t my (our) full and exding rights of priority of to file an application. (and such rights cense in the invention will appear, where properties of the such that is the such that the such that is the such that the such that is the such that t	under the Int on in any fore s will be subj n with power	ternational eign country ect to the r to grant lic	Convention of Par	ris (1883), as est rights in that Government of a rnmental
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*4. Authorize ar	id request the attorne	eys of record in the a	pplication to	insert the a	application numbe	r and filing date
above when require	1 (1		-1-1 -			
(Signature of Inventor	and V		3/2/02	nt Executed	(Date Application	ation Executed)
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John C. Mankins	mol		dress - Includir		n, VA 20147, US	
(Inventor's Typed Na	ne)	(Manning Aut	arosa - moiaun	ig Country)		
(Signature of Invento	r)	(1	Date Assignme	ent Executed	(Date Applic	ation Executed)
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(Inventor's Typed Na.		(Mailing Add	dress - Includii	ng Country)		

NASA FORM 430 DEC 2000 PREVIOUS EDITIONS ARE OBSOLETE.

RECORDED: 12/02/2002

PATENT REEL: 013548 FRAME: 0400