DOCKET NUMBER: AMPC 5114

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David A. Bittle, Gary T. Jimmerson and Julian L. Cothran	United States of America, as represented by the Secretary of the Army Washington, D. C. 20231
3. Nature of conveyance: ASSIGNMENT	
Execution Date: February 27, 2006	
4A. Patent Application Number(s) / Patent Number(s): 11/370,390	4B. Filing Date / Issue Date: March 6, 2006
 Name and address of party to whom correspondence concerning document should be mailed 	 Legal Office (AMSAM-L-G-I / Ms. Anne Lanteigne) US Army Aviation and Missile Command Redstone Arsenal, AL 35898-5000
6. Total number of applications and patents involved: <u>1</u>	·····
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Docket No. AMPC 5114

ASSIGN For use of this form, see	MENT OF INVEN AR 27-50; the proponen	
Title of Invention: <u>Asymmetrical Control S</u>	urface System for T	ube-Launched Air Vehicles
Inventor(s): David A. Bittle, Gary T. Jimmers	on and Julian L <u>. Co</u>	thran
*Application Serial No.:		
*Date Declaration Executed: <u>February 27, 20</u> (*Date not known at exec	006 cution may be added for	*Filing Date
I (WE), the undersigned inventor(s), in consideration of the circumstances under which the above-entitled invention was		ent of the United States acquired by virtue of the
 Assign to the Government of the United States, as n throughout the United States, its Territories, Possession patent and all Letters Patent issuing thereon, and any c or extension of said Letters Patent. 	ns, and Puerto Rico, in a	nd to the above-entitled invention and application for
2. Agree to assign to the Government upon its request Government, within eight months of the filing of the Uni provided that if the Government determines not to caus such a determination, within the said eight months, all r (us), subject to a nonexclusive, irrevocable, royalty-free such foreign country, including the power to issue subli- policies of the Government.	ted States application for a an application to be file right, title and interest in t blicense to the Governme censes for use in behalf	r patent, determines to cause an application to be filed; ad in any particular foreign country or falls to make the invention in such foreign country shall remain in me ent in any patent which may issue on the invention in of the Government and/or furtherance of the foreign
 Agree to provide any further information within my (prosecution of patent applications on the invention, the applications and patents issuing thereon. 	prosecution and settlem	ecute any further documents necessary to the ent of interferences and recording of title to petent
Signature of Inventor:(First Name)	(Middle Initial)	(Last Name)
(, ,, o,)	(<u>,</u>
Address: <u>66 Ryan Road, Somerville</u>	<u>Morgan</u> (County)	Alabama 35670 (State)
(Locality)	(County)	(otate)
Date 2/27/06 Typed Na	ame of Inventor	David A. Bittle
State of <u>Alabama)</u>) ss.		
County of <u>Madison }</u>		
On the above date David A. Bittle known to foregoing instrument duty appeared before me and acknow		described in and who executed the recuted the same as his own free act and deed.
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and the state of t	Form	a F. Rennera
-(Seal)	(Si	gnature of Notery/Public)
	My Commiss	ion explres on <u>10 August 2008</u>
DA FORM 2874 R. APR 93 REPLACES DA FOR	RM 2874-R, MAR 74, WH	HICH IS OBSOLETE. Page 1 of 2 Pages
and the state		

PATENT REEL: 018783 FRAME: 0459 · ·

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SUPPLEMENTAL SIGNATURE SHEET For use of this form, see AR 27-50; the proponent agency is OTJAG Use this form with DA Forms 2873-R and 2874-R when edditionel signature blocks are needed. 1. ASSIGNOR(s) or LICENSOR(s) NAME(s) David A. Bittle, Gary T. Jimmerson and Julian L. Cothran 2. APPLICATION SERIAL NUMBER 3. FILING DATE 3. FILING DATE 4. TITLE OF INVENTION Asymmetrical Control Surface System for Tube-Launched Air Vehicles Signature of Inventor:
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Use this form with DA Forms 2873-R and 2874-R when additionel signature blocks are needed. 1. ASSIGNOR(s) or LICENSOR(s) NAME(s) David A. Bittle, Gary T. Jimmerson and Julian L. Cothran 2. APPLICATION SERIAL NUMBER 3. FILING DATE 3. FILING DATE 4. TITLE OF INVENTION Asymmetrical Control Surface System for Tube-Launched Air Vehicles Signature of Inventor
1. ASSIGNOR(s) or LICENSOR(s) NAME(s) David A. Bittle, Gary T. Jimmerson and Julian L. Cothran 2. APPLICATION SERIAL NUMBER 4. TITLE OF INVENTION Asymmetrical Control Surface System for Tube-Launched Air Vehicles 3. FiLING DATE 4. TITLE OF INVENTION Asymmetrical Control Surface System for Tube-Launched Air Vehicles 3. FiLING DATE 5. Signature of Inventor:
A dress:
Julian L. Cothran 3. FILING DATE 4. TITLE OF INVENTION Asymmetrical Control Surface System for Tube-Launched Air Vehicles Signature of Inventor (First Name) Address: 1705 High Pointe, Athens, Limestone County, Alabama 35613 Date signed: 201FUS 06 Inventor's Typed Name Gary T. Jimmerson State of Alabama 65. County of Madison 65. On the above date Gary T. Jimmerson Kiginature of Inventor (Signature of Notary Public) (Signature of Inventor (Signature of Notary Public) (Signature of Inventor (Signature of Inventor (Signature of Inventor (Signature of Name) (Middle Initial) (Last Name) My Commission expires on 10 Mugust 2005 Signature of Inventor (First Name) (Middle Initial) (Last Name) My Commission expires on 10 Mugust 2005 Signature of Inventor (First Name) Middle Initial) (Last Name) Address: 1150 Monetro Rd, Arab, Marshell County, Alabama 35016 Date signed: 27 Feb CG Inventor's Typed Name Julian L, Cothran
3. FILING DATE 4. TITLE OF INVENTION Asymmetrical Control Surface System for Tube-Launched Air Vehicles Signature of Inventor: (First Name) Address: 1705 High Pointia, Athens, Limestone County, Alabama 35613 Date signed: 20150.06 Inventor's Typed Name Gary T. Jimmerson State of Alabama Ss. County of Madison Or the above date Gary T. Jimmerson Known to me to be the individual described in and who executed the foregoling instrument duly appeared before me and acknowledged to me that he executed the same as his own free act and deed (Stat) My Commitesion expires on ID Quaguat 3005 Signature of Inventor (Stat) Ny Commitesion expires on ID Quaguat 3005 Signature of Inventor (Hitst Name) (Middle Initial) (Last Name) Address: 1150 Monetro Rd., Arab, Marshall County, Alabama 35016 Date signed: 27 Feb C4 Inventor's Typed Name Julian L. Cothran
4. TITLE OF INVENTION Asymmetrical Control Surface System for Tube-Launched Air Vehicles Signature of Inventor:
Asymmetrical Control Surface System for Tube-Launched Air Vehicles Signature of Inventor:
Asymmetrical Control Surface System for Tube-Launched Air Vehicles Signature of Inventor (First Name) Address: 1705 High Perite, Athens, Linestone County, Alabama 35613 Date signed: 20 Feb 06 Inventor's Typed Name Gary T. Jimmerson State of Alabama 55. County of Madison 55. On the above date Gary T. Jimmerson Inventor's Typed Name Linestone on the the individual described in and who executed the foregoing instrument duly appeared before me and acknowledged to me that he executed the same as his own free act and deed (Signature of Inventor (Signature of Notary Public) (Signature of Inventor (Middle Initial) (Last Name) (Middle Initial) (Last Name) (Middle Initial) Address: 1150 Monetro Rd, Arab, Marshall County, Alabama 35015 Date signed: 27 Feb Ctc Inventor's Typed Name Julian L, Cothran
Signature of Inventor
(First Name) (Middle Initial) (Last Name) Address: 1705 High Pointe, Athens, Limestone County, Alabama 35613 Date signed: 20 Fcb 0b Inventor's Typed Name State of Alabema) \$s. County of Madison) \$s. Orn the above date Gary T. Jimmerson known to me to be the individual described in and who executed the foreighting instrument duly appeared before me and acknowledged to me that he executed the same as his own free act and deed. (Signature of Inventor (Signature of Notary Public) Signature of Inventor (Middle Initial) (Last Name) (Middle Initial) Address: 1150 Monetro Rd., Arab, Marshall County, Alabama 35016 Date signed: 27 Feb Ct Inventor's Typed Name Julian L, Cothran
(First Name) (Middle Initial) (Last Name) Address: 1705 High Pointe, Athens, Limestone County, Alabama 35613 Date signed: 21Fcb 0b Inventor's Typed Name State of Alabama \$s. County of Madison \$s. On the above date Gary T. Jimmerson Inventor's Typed Name and who executed the foreighting instrument duly appeared before me and acknowledged to me that he executed the same as his own free act and deed. My Commission expires on 10 Muguet 3005 Signature of Inventor (Signature of Inventor Virist Name) (Middle Initial) Address: 1150 Monetro Rd., Arab, Marshall County, Alabama 35016 Date signed: 27 Feb Ct Inventor's Typed Name Julian L, Cothran
Address: 1705 High Perinte, Athens, Limestone County, Alabama 35613 Date signed: 21Fc5 06 Inventor's Typed Name Gary T. Jimmerson State of Alabama jss. County of Madison jss. On the above date Gary T. Jimmerson known to me to be the individual described in and who executed the foregoing instrument duly appeared before me and acknowledged to me that he executed the same as his own free act and deed. (Signature of Notary Public) (Seal) My Commission expires on Signature of Inventor. (Signature of Inventor. (Hifst Name) (Middle Initiat) Address: 1150 Monetro Rd, Arab, Marshall County, Alabama 35016 Date signed: 27 Feb CC Inventor's Typed Name Julian L, Cothran
Date signed: <u>AJFc6506</u> Inventor's Typed Name <u>Gary T. Jimmerson</u> State of <u>Alabama</u>
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Signature of Inventor Signature of Inventor Madises: 1150 Monetro Rd, Arab, Marshall County, Alabama 35016 Dete signed: 27 Feb CC
Signature of Inventor Signature of Inventor Mire signed: 27 Feb CC Inventor's Typed Name Julian L. Cothran
County of Madison \$\$5. County of Madison 1 On the above date Gary T. Jimmerson known to me to be the individual described in and who executed the same as his own free act and deed Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Statistic constraints Image: Stati
On the above date Gary T. Jimmerson known to me to be the individual described in and who executed the foresigned in the proceeded of the same as his own free act and deed (Seal) My Commission expires on <u>ID August 3005</u> Signature of Inventor: <u>Union</u> (Middle Initial) (Last Name) Address: <u>1150 Monetro Rd. Arab. Marshall County. Alabama 35016</u> Dete signed: <u>27 Feb CC</u> Inventor's Typed Name <u>Julian L. Cothran</u>
(Seal) (Seal) Signature of Inventor Rd., Arab, Marshall County, Alabama 35016 Date signed: 27 Feb CC Inventor's Typed Name Julian L. Cothran
(Seal) (Seal) Signature of Inventors Rd., Arab, Marshall County, Alabama 35016 Date signed: 27 Feb CC Inventor's Typed Name Julian L. Cothran
(Seal) My Commission expires on <u>ID August 2005</u> Signature of Inventor: <u>Viluan</u> (First Name) (Middle Initial) (Last Name) Address: <u>1150 Monetro Rd., Arab, Marshall County, Alabama 35016</u> Date signed: <u>27 Feb C6</u> Inventor's Typed Name <u>Julian L. Cothran</u>
(Seal) My Commission expires on <u>ID August 2005</u> Signature of Inventor: <u>Vilian</u> <u>(Middle Initial)</u> Address: <u>1150 Monetro Rd., Arab, Marshall County, Alabama 35016</u> Date signed: <u>27 Feb C6</u> Inventor's Typed Name <u>Julian L. Cothran</u>
(Seal) My Commission expires on <u>ID August 2005</u> Signature of Inventor: <u>Million</u> <u>Million</u> (Middle Initial) Address: <u>1150 Monetro Rd., Arab, Marshall County, Alabama 35016</u> Date signed: <u>27 Feb CC</u> Inventor's Typed Name <u>Julian L. Cothran</u>
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Address: (First Name) (Middle Initial) (Last Name) Address: 1150 Monetro Rd., Arab, Marshall County, Alabama 35016 Date signed: 27 Feb C6 Inventor's Typed Name Julian L. Cothran
Address: (First Name) (Middle Initial) (Last Name) Address: 1150 Monetro Rd., Arab, Marshall County, Alabama 35016 Date signed: 27 Feb C6 Inventor's Typed Name Julian L. Cothran
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Address: 1150 Monetro Rd., Arab, Marshall County, Alabama 35016 Date signed: 27 Feb 06 Inventor's Typed Name Julian L. Cothran
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State of <u>Alabama</u>)
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On the above date Julian L. Cothran known to me to be the individual described in and who executed the
foregoing instrument duly appeared before me and acknowledged to me that he executed the same as his own free act and deed
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RECORDED: 01/17/2007

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