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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereo 1. Name of conveying party(ies): David T. Winslow Michael Runyan Scott T. Johnson Additional name(s) of conveying party(ses) attached? \(\text{L} \) Yes \(\text{L} \) No 3. Nature of conveyance: \(\text{L} \) Assignment \(\text{L} \) Merger \(\text{L} \) Security Agreement \(\text{L} \) Change of Name \(\text{L} \) Lexington \(\text{Street} \) Additional name(s) & addresses) attached? \(\text{L} \) Yes \(\text{L} \) Additional name(s) & addresses) attached? \(\text{L} \) Yes \(\text{L} \) Additional name(s) & addresses) attached? \(\text{L} \) Yes \(\text{L} \) Additional name(s) & addresses) attached? \(\text{L} \) Yes \(\text{L} \) Additional name(s) & addresses) attached? \(\text{L} \) Yes \(\text{L} \) Additional name(s) & addresses) attached? \(\text{L} \) Yes \(\text{L} \) Additional name(s) & addresses) attached? \(\text{L} \) Yes \(\text{L} \) Additional name(s) & addresses) attached? \(\text{L} \) Yes \(\text{L} \) Additional name(s) & addresses) attached? \(\text{L} \) Yes \(\text{L} \) Additional name(s) & addresses) attached? \(\text{L} \) Yes \(\text{L} \) Additional name(s) & addresses) attached? \(\text{L} \) Yes \(\text{L} \) Additional name(s) & addresses) attached? \(\text{L} \) Yes \(\text{L} \) No. PD-01W144 If this document is being filed together with a new application, the execution date of the application is: \(\text{L} \) Additional numbers attached? \(\text{L} \) Yes \(\text{L} \) No. (s) \(\text{L} \) Additional numbers attached? \(\text{L} \) Yes \(\text{L} \) No. (s) \(\text{L} \) Additional number of applications and patents involved to the concerning document should be mailed: \(\text{N} \) Additional number of applications and patents involved to the concerning document should be mailed: \(\text{L} \) Address: \(\text{L} \)	· ·	PATENT	S ONLY	O.O. Faterit a	ila Tradelliaik O	U. F
1. Name of conveying party(ies): David T. Winslow Michael Runyan Scott T. Johnson Additional name(s) of conveying party(ies) attached? Yes \(\mathbb{L} \) No 3. Nature of conveyance: Assignment Assignment Change of Name Other City: Lexington Additional name(s) & address(s) attached? Yes 4. Application number(s) or patent number(s): A Patent Application No.(s) Additional numbers attached? Yes Additional number of applications and patents involved concerning document should be mailed: Name: Raytheon Company Internal Address: Leonard A. Alkov Street Address: Leonard A. Alkov Internal Address: Leonard A. Alkov City: Street No.(s) 6. Total number of applications and patents involved be mailed: Name: Raytheon Company Internal Address: Leonard A. Alkov City: Street Address: Leonard A. Alkov City: Additional numbers attached? Additional numbers attached? City: Additional numbers attached? City: Additional numbers attached? City: Additional numbers attached? City: Additional numbers attached? Additional numbers attached? Additional numbers attached? Additional numbers B. Patent No.(s) City: Additional numbers Add	······································	<u> </u>	V	Y Y		<u> 20</u>
David T. Winslow Michael Runyan Scott T. Johnson Additional name(s) of conveying party(ses) attached? Yes No 3. Nature of conveyance: Assignment Security Agreement Other Other Other Application number(s) or patent number(s): A Patent Application No.(s) Internal Address: 141 Spring Street City: Lexington State: MA Zip. Additional name(s) & address(es) attached? Yes Additional numbers attached? Yes B. Patent No.(s) 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Raytheon Company Additional numbers attached? Additional numbers attached? Yes 6. Total number of applications and patents involved to be charged to deposit account number: Street Address: Leonard A. Alkov Internal Address: Leonard A. Alkov Internal Address: Leoxington State: Attorney Docket No. PD-01W144 If this document is being filed together with a new application, the execution date of the application is: B. Patent No.(s) 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Raytheon Company Address: Intellectual Property and Lic Internal Address: Intellectual Property and Lic Internal Address: Intellectual Property and Lic Street Address: Intellectual Property and Lic Address: Internal Address: Intellectual Property and Lic Address: Intellectual Property and Lic Internal Address: Intellectual Property and Lic Address: Intellectual Property and Lic Internal Address: Intellectual Property and Lic Address: Intellectual Property and Lic Internal Address: Intellectual Property and Lic Internal Address: Intellectual Property and Lic Internal Address: Internal Address: Internal Address: Internal Address: In	To the Honorable Commissione	r of Patents and Trademarks:	Please record the attach	ed original documents or c	opy thereof.	<u> </u>
Additional name(s) of conveying party(ses) attached? ☐ Yes ☑ No 3. Nature of conveyance: ☐ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other ☐ Other ☐ Oth	David T. Winslow	6.23.03	Name: Raythe	eon Company		17613
3. Nature of conveyance: Assignment Change of Name Other Oth			Internal Addres	s: Intellectual Propert	y and Licensir	1g
Security Agreement	Additional name(s) of conveying party(ies) attached? Yes No				
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Other	Assignment	Merger				
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4. Application number(s) or patent number(s): Attorney Docket No. PD-01W144 If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) Additional numbers attached? Yes No	└ Other		City:	gton State: MA	Zip: <mark>02421</mark> -	-7899
If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) 10/20/385 Additional numbers attached? Yes No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Raytheon Company Internal Address: Leonard A. Alkov Internal Address: Leonard A. Alkov Street Address: P.O. Box 902 (E4/N119) Street Address: Do Not Use THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached cois a true copy of the original document.	06/19/03, 06/19/03, 6-20/03 Execution Date:		Additional name(s)	& address(es) attached?	Yes 🐼 N	10
Concerning document should be mailed: Name: Raytheon Company Internal Address: Leonard A. Alkov Internal Address: P.O. Box 902 (E4/N119) Street Address: P.O. Box 902 (E4/N119) EI Segundo City: State: Zip: DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached coris a true copy of the original document.		Additional numbers a	ttached? ☐ Yes ☑ N	o		
Name: Raytheon Company 7. Total fee (37 CFR 3.41) 40.00	5. Name and address of party to whom correspondence					1
Internal Address: Leonard A. Alkov COMMET (NOOD 16) Att. 00 16 Street Address: P.O. Box 902 (E4/N119) El Segundo CA Zip: ON NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached cois a true copy of the original document.			7. Total fee (37 CF	FR 3.41)\$	40.00	
Authorized to be charged to deposit account number: Street Address: P.O. Box 902 (E4/N119) Street Address: DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached cois a true copy of the original document.		likov	☐ Enclosed			
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City:State:Zip: DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached co is a true copy of the original document.	Street Address: P.O. Box 902 (E4/N119)			t number:		
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached cois a true copy of the original document.	El Segundo CA City:State:	90245-0902 Zip:	(Attach duplicate co	py of this page if paying by	y deposit accoun	t)
To the best of my knowledge and belief, the foregoing information is true and correct and any attached constant is a true copy of the original document.		DO NOT US	E THIS SPACE			
Leonard A. Alkov, 30,021	To the best of my knowledge a		information is true as	ð	tached copy 6/23/2003	
Name of Person Signing Signature Date		ng	Signature		Date	

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments

Washington, D.C. 20231

ASSIGNMENT

WHEREAS, I, as below named joint inventor of the city and state as stated below next to my name, have invented "Heat Exchanger" for which application for Letters Patent of the United States has been executed by me on this day; and

WHEREAS, RAYTHEON COMPANY, a Delaware Corporation, having its principal place of business in Lexington, Massachusetts, is desirous of acquiring the entire and exclusive right, title and interest in, to and under said invention, said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world;

NOW, THEREFORE, in consideration of the obligations voluntarily assumed by me and set forth in an invention agreement between me and my employer, effective the date as stated below next to my name, and other good and valuable consideration, receipt of which is hereby acknowledged, I do hereby sell, assign and transfer to RAYTHEON COMPANY, its successors, assigns or other legal representatives, the entire and exclusive right, title and interest in and to said invention invented by me, to said application and any and all applications which are continuations, continuations-in-part, divisions or substitutes of said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world on any of said applications and to any and all reexaminations, reissues, renewals or extensions of said Letters Patent in the United States and thro ughout the world for the full term or terms for which said Letters patent may be granted in the United States and throughout the world; authorize and request The Commissioner of Patents and Trademarks of the United States and all foreign countries to issue all such Letters Patent to said RAYTHEON COMPANY, its successors, assigns or other legal representatives; convenient that no assignment, sale, agreement, transfer or encumbrance has been, or will be, made or entered into which would conflict with this assignment, sale and transfer; and agree to communicate to RAYTHEON COMPANY, its successors, assigns or other legal representatives, upon request and at no cost or expense to me, any facts known by me respecting said invention, do all lawful acts, including the execution and delivery of all papers and proper oaths and giving of testimony that is deemed necessary or desirable by RAYTHEON COMPANY, its successors, assigns or other legal representatives with regard to said invention for protecting, obtaining, maintaining and enforcing any and all of said Letters Patent in the United States and throughout the world for said invention and for perfecting, affirming, recording and maintaining the title of RAYTHEON COMPANY, its successors, assigns or other legal representatives, and generally cooperate to the fullest extent in all matters pertaining to said invention, and any and all of said Letters Patent and the title thereto in RAYTHEON COMPANY, its successors, assigns or other legal representatives.

> PATENT REEL: 014229 FRAME: 0102

IN WITNESS WHEREOF, we have executed this instrument.

Full Name of Inventor	Inventor Signature	Date Signed
David T. Winslow		03-06-19
Residenc	e (City and State)	Invention Agreement Date
Culver City, California		August 20, 1984
TATE OF <u>California</u>)	
TATE OF <u>California</u> COUNTY OF <u>Los Angeles</u>) SS)	
on <u>6 - 19 - 03</u> before me,	Elaine Panousis	, a Notary Public in and for said State,
ersonally appeared David T. Wins		
BAINE PANOUSIS Commission # 1296202 Notory Public - Collifornio Los Angeles County My Comm. Bookes Mor 5, 200	that he/slye/they executed the same in his/hyterson(s), or the entity upon behalf of which Notary Public	the person(s) whose name(s) is/are subscribed to the rauthorized capacity(ies), and that by the person(s) acted, executed the instrument.
Full Name of Inventor	Inventor Signature	Date Signed
Aichael Runyan	midael O lungar	6/20/2003
Residenc	e (City and State)	Invention Agreement Date
orrance, California		June 13, 1978
TATE OF <u>California</u> OUNTY OF <u>Los Angeles</u>		:
n 6-20-03 before me,	Elaine Panousis	, a Notary Public in and for said State,
ersonally appeared Michael Runy	an	
personally known to me or proved to he within instrument and acknowledged to me his/her/their signature(s) on the instrument the particular by hand and official seal.	that he/she/they executed the same in his/her	the person(s) whose name(s) is/a/e subscribed to http://their authorized capacity(ies), and that by the person(s) acted, executed the instrument.
	Notary Public <u>Clau</u>	ui Vanouris EP
El AINE PANOUSI Los Angeles Court Los Angeles Court My Court Expire Mar	ELAINE PANOUSI Commission # 1296: Notary Public - Coffic Las Angeles Court My Comm. Expires Mar.	EL/ 1985

Full Name of Inventor	Inventor Signature	Date Signed					
Scott T. Johnson	San Mon	19-Jun-93					
Residenc	e (City and State)	Invention Agreement Date					
Torrance, California		June 20, 1980					
STATE OF <u>California</u> COUNTY OF <u>Los Angeles</u> On <u>6 - 19 - 03</u> before me,) SS:) Elaine Panousis , a l	Notary Public in and for said State.					
On 6-19-03 before me, Elaine Panousis , a Notary Public in and for said State, personally appeared Scott T. Johnson personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/a/e subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/he/their authorized capacity(ies), and that by his/he/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.							
WITNESS my hand and official seal.		Panouris					
ELAINE PANOUSIS Commission # 1296202 Notary Public - California Los Angeles County My Comm. Expires Mor 5, 200							

RECORDED: 06/23/2003

PATENT REEL: 014229 FRAME: 0104