Form PTO-1595 (Rev. 03-11)

OMB No. 0651-0027 (exp. 04/30/2015)

OPAP THE SEP 0 6 2013 2

09/11/2013



COMMERCE rademark Office

RECORDATION FOR 103661776 **PATENTS** To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below. 2. Name and address of receiving party(ies) 1. Name of conveying party(ies) Name: U.S. Navy as represented by the Secretary of the Navy Raytheon Company Internal Address: Additional name(s) of conveying party(ies) attached? 🔲 Yes 🔀 No Street Address: 1250 10th Street S.E. Suite 3600 3. Nature of conveyance/Execution Date(s): Execution Date(s)17 June 2002; 20 June 2002 X Assignment Merger City: Washington Navy Yard Security Agreement Change of Name Joint Research Agreement State: D.C. Government Interest Assignment Zip20374-5127 Country: U.S.A. Executive Order 9424, Confirmatory License Other Additional name(s) & address(es) attached? 4. Application or patent number(s): This document is being filed together with a new application. B. Patent No.(s) A. Patent Application No.(s) 10/042,727 Additional numbers attached? Yes X No 6. Total number of applications and patents 5. Name and address to whom correspondence involved: one concerning document should be mailed: Name: Strategic Systems Programs 7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00 Internal Address: X Authorized to be charged to deposit account **Enclosed** Street Address: 1250 10th Street S.E. None required (government interest not affecting title) Suite 3600 (ATTN: SPLe-4) 8. Payment Information City: Washington Navy Yard Zip20374-5127 State:D.C. Phone Number 202-433-9774 Deposit Account Number 50-1113 Docket Number: NC 79665 Authorized User Name Darrell E. Holls 501113 10042727 Email Address: sple4@ssp.navy.mil 01 FC:8021 40.00 DA 9. Signature: 3 July 2013 Date Signature Total number of pages including cover Darrell E. Hollis sheet, attachments, and documents: Name of Person Signing Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:

Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

PATENT REEL: 031304 FRAME: 0983

ASSIGNMENT

TITLE	DIA NEWONI CELE			
OPTICALLY READABLE FERROELECT INVENTOR(S) (Names)	RIC MEMORY CELL CONTRACTOR			
JOHN J. DRAB	Bauthaan Campany			
DAVID A. ROBINSON	Raytheon Company CONTRACT NO. GOVERNMENT AGENCY			
	Subcontract DL-H-454775 under N00030-93-C-0002	U. S. Navy		
	CONTRACTOR INVENTION DOCKET NO.	AGENCY DOCKET NO.		
	PD-93206	N. C. 79665		
	DATE EXECUTED SERIAL NO.	FILING DATE		
i	20 June 2002 10/042	2,727 26 June 200		
Government under the above contract a nonexclusive and royalty-free lic interest in and to each invention d The license reserved to the Co- filiated companies, if any, within be assignable to the successor of the	n recognition of his (their) obligat Contractor, and pursuant to the obl , hereby assigns (assign) to the Uni ense which is hereby reserved to the isclosed and claimed in the above U. attractor shall extend to all existing the corporate structure of which the hat part of the Contractor's business	igations of the Contractor to ted States of America, subject Contractor, all right, title S. patent application. g and future associated and af Contractor is a part and shall		
The Inventor(s) further agrees	(agree) to assist the Contractor, an	nd the Government, upon request		
continuation of such patent application. Nuch patent application. Raytheon Company acquired right	terences), and any substitution, division and any application for reissue ts to this invention from Hughe DL-H-454775 was initially between the Laboratory. Inc.	of any patent resulting from s Aircraft Company by		
,	braper haboratory, inc.	. •		
20 de loz	WW			
DATE	INVENTOR	(Seal)		
. •				
		(Seal)		
DATE	INVENTOR			
DATE	INVENTOR	(Seal)		
·	INVERTOR			
DATE	INVENTOR	(Seal)		
		•		
		* 1000		
000	Frink	•		
CHED THIS 20th DAY OF		200 2 /		
UNI UP		. 200 Q		
UNI UF		. 200 Q		
UNI UP	Raytheor	. 19 <u>20</u> 0 2/ n Company		
UNI UP	Raytheor	Company		
lidrienne & Happale	Raytheor			
ADRIENNE C. JACKSO	DN BY UKOGA			
ADRIENNE C. JACKSC Commission # 12204	BY William (
ADRIENNE C. JACKSO Commission # 12204 Notory Public - Califor	BY William C	CONTRACTOR M. Chult		
ADRIENNE C. JACKSC Commission # 12204	BY William C	CONTRACTOR M. Chult		

PATENT REEL: 031304 FRAME: 0984

ASSIGNMENT

TITLE	MEMORY CELT			
OPTICALLY READABLE FERROELECTRIC INVENTOR(S) (Names)	MEMORY CELL CONTRACTOR			
JOHN J. DRAB	Raytheon Company	* .		
DAVID A. ROBINSON	CONTRACT NO. GOVERNMENT AGENCY			r
			U. S. Navy	
			AGENCY DOCKET NO.	
	PD-93206	SERIAL NO.	N. C. 79665	
	17 June 2002	,	7.07	FILING DATE 26 June 200
The undersigned Inventor(s), in re tractor to assign inventions to the Con Government under the above contract, he a nonexclusive and royalty-free license interest in and to each invention discla	cognition of his (the tractor, and pursuant reby nasigns (assign) which is hereby rese osed and claimed in t	ir) obligation to the obligation to the Unite to the Cheston to the Cheston above U.S.	n as employee(s ations of the C d States of Ame ontractor, all patent applica	ontractor to the rica, subject to right, title and tion.
The license reserved to the Contractilisted companies, if any, within the observation of the passignable to the successor of that pains. The Inventor(s) further agrees (agree) by furnishing any available information	corporate structure opert of the Contractor	f which the Cor's business	ontractor is a post of the Government.	part and shall nvention per-
which may be reasonably necessary to mak The Contractor joins in and agrees tion of a license relinquishes and assig further agrees to furnish to the United documents necessary for the prosecution	to the foregoing assignment eff to the foregoing assigns all right, title a States of America, up of the above-identifi	fective. gnment, and end interest in on request, and end application	except for the a in and to such i any available in on for patent (i	above reserva- nvention, and formation and ncluding
prosecution and settlement of interferent continuation of such patent application such patent application. Raytheon Company acquired rights t	and any application for this invention f	or reissue of	Aircraft Com	pany by
formal agreement. Subcontract DL-H Company and The Charles Stark Drap			Hughes Airc	rait
company and the charles stark brap	^	00	•	4
June 14, 2002	hand a	2 Kolm	2011	
DATE	100000	INVENTOR		(Seal)
· .				(Seal)
DATE		INVENTOR		
			v*	
DATE		INVENTOR		(Seal)
				(Seal)
DATE		INVENTOR		
			,	
	,			•
IGNED THIS DAY OF	JUNE	• • • • • • • • • • • • • • • • • • • •	x <u>20</u> 02	
TTEST:				
Pratixa m Parel		Raytheon (Company	
ical)		1140000	CONTRACTOR	4.4
PRATIXA M. PATEL Commission # 1306449 Notary Public - Californ		William C.	Schubert	rew
San Diego County My Comm. Expires May 29, 2	2005		D 4 TEN:-	4-23930

RECORDED: 09/06/2013

PATENT * REEL: 031304 FRAME: 0985