FORM PTO-1619A Expires 06/30/99 OMB 0651-0027

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Name (line 1) Julie R. Schacht 07-31-2002
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Receiving Party Mark if additional names of receiving parties attached
Name (line 1) RAYTHEON COMPANY If document to be recorde is an assignment and the
Name (line 2) receiving party is not domiciled in the United
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(Designation must be a
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Domestic Representative Name and Address Enter for the first Receiving Party only.
Name Colin M. Raufer. Reg. No. 40.781
Address (line 1) Bldg. E1, M.S. E150
Address (line 2) P.O. Box 902
Address (line 3) El Segundo, California 90245
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Mail documents to be recorded with required cover sheet(s) information to: Commissioner of Patents and Trademarks, Box Assignments , Washington, D.C. 20231

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Corresponde	nt Name and Address	Area Code and Telephone I	Number (310)	647-3214
Name [Patent Records Administration	on		
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Address (line 2)	Bldg. E1, M.S. E150			
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	Enter the total number of pagincluding any attachments.	es of the attached conveyan	ce document	# 3
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	peing filed together with a <u>new</u> Paten named executing inventor.	t Application, enter the date the pate	nt application was	Month Day Year
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•	PCT application number	PCT		PCT
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indicated herein.

Colin M. Raufer, Reg. No. 40,781

Name of Person Signing

Authorization to charge additional fees:

PATENT REEL: 013172 FRAME: 0367

50-0616

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No

August 1, 2002

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Conveying Party	(ies)	Mark if addit	onal names of conveying	narties attached	863
Enter additional Conve		Mark II addie	onal names of conveying	parties attached	Execution Date: Month Day Year
Name (line 1) Grace	Y. Chen				08-01-2002
Name (line 2)					Execution Date Month Day Year
Name (line 1)					month Day Year
Name (line 2)					Execution Date Month Day Year
Name (line 1)					
Name (line 2)					
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Name (line 2)					receiving party is not domiciled in the United States, an appointment of a
Address (line 1)					domestic representative is attached. (Designation must be a separate document from
Address (line 2)					Assignment.)
Address (line 3)	City		State/Country	Zip C	Code
Application Num	ber(s) or Patent N	lumber(s)	Mark if additional		
Enter either the Pate	ent Application Number or	the Patent Number	(DO NOT ENTER BOTH		· · · · · · · · · · · · · · · · · · ·
Patent	Application Number	(s)	ļ	Patent Num	ber(s)
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PATENT

__REEL: 013172 FRAME: 0368

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ASSIGNMENT

WHEREAS, I, as below named sole inventor (if only one name is listed below) or joint inventor (if plural names are listed below) of the city and state as stated below next to my name, have invented a(an) CORRELATION TRACKER BREAKLOCK DETECTION for which application for Letters Patent of the United States has been executed by me on or before this day, or (if the following is completed) filed on, as Serial No.; and

WHEREAS, RAYTHEON COMPANY, (hereinafter referred to as Raytheon), 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, 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 throughout 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, its successors, assigns or other legal representatives; covenant 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, 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, 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, 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, its successors, assigns or other legal representatives.

> PATENT REEL: 013172 FRAME: 0369

Raytheon

ASSIGNMENT Page 2 of 3 PD-02W006

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR INVENTOR SIGNATURE	DATE
JOHN E. ALBUS	7/3//02
RESIDENCE (CITY AND STATE)	INVENTION AGREEMENT DATE
GRANADA HILLS, CALIFORNIA	June 21, 1977
STATE OF CAUPANIA)	
COUNTY OF LOS ANG ELLS) SS:	
on July 31, 2002 before me, Sosiph W. Stark	1
a Notary Public in and for said State, personally appeared	/
personally known to me or □ proved to me on the basis of satisfactory evidence	e to be the person(s) whose
name(s) is/as subscribed to the within instrument and acknowledged to me that he/in his/hef/ther authorized capacity(ies), and that by his/hef/their signature(s) on the the entity upon behalf of which the person(s) acted, executed the instrument.	she/they executed the same
WITNESS my hand and official seal.	
JOSEPHW. STONE Commission # 1344231	
Notery Public - California E Los Angeles County	, do
My Comm. Expires Feb 23, 2008. Notary Public	yf. (/) Whi
FULL NAME OF SOLE OR JOINT INVENTOR INVENTOR'S SIGNATURE	DATE
JULIE R. SCHACHT	7/31/02
RESIDENCE (CITY AND STATE)	INVENTION AGREEMENT DATE
TORRANCE, CALIFORNIA	March 16, 1998
COUNTY OF LOS ANGELES) SS:	
COUNTY OF LOS ANGELES)	
On Juny 31, 2002 before me, ASEPH W. Stant E a Notary Public in and for said State, personally appeared Julie R. Schrift	·
a Notary Public in and for said State, personally appeared	ACHT
personally known to me or proved to me on the basis of satisfactory evidence name(s) is/are subscribed to the within instrument and acknowledged to me that he/	to be the person(x) whose
in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the the entity upon behalf of which the person(s) acted, executed the instrument.	instrument the person(s), or
WITNESS my hand and official seal.	
VVI I TELOO IIIy Halid alid Oliolad Seal.	

PATENT

Notary Public

REEL: 013172 FRAME: 0370

Raytheon

ASSIGNMENT Page 3 of 3 PD-02W006

IN WITNESS WHEREOF, I have executed this instrument.

JOSEPHW. STONE

FULL NAME OF SOLE OR JOINT INVENTOR INVENTOR'S SIGNATURE	DATE
GRACE Y. CHEN	8/1/2002
RESIDENCE (CITY AND STATE)	INVENTION AGREEMENT DATE
ARCADIA, CALIFORNIA	April 30, 2001
STATE OF CALIFORN, A COUNTY OF LOS ANGELES On AGOST 1, 2002 before me, SEPH W. STON a Notary Public in and for said State, personally appeared GLACE Y.	CAEN
personally known to me or proved to me on the basis of satisfactory evid name(s) is/ane subscribed to the within instrument and acknowledged to me that in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the entity upon behalf of which the person(s) acted, executed the instrument.	it he/she/they executed the same
WITNESS my hand and official seal.	

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RECORDED: 08/01/2002

PATENT REEL: 013172 FRAME: 0371

Notary Public Juses Motor