

08-16-2006



103291877

81916

T

To the Director of the U.S. Patent ar.

Documents or the new address(es) below.

1. Name of conveying party(ies)

DAVID D. CROUCH
MICHAEL J. SCHWEIGER

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: RAYTHEON COMPANY

Internal Address: Intellectual Property & Licensing Dept.

Street Address: 870 Winter Street

City: Waltham

State: Ma

Country: USA Zip: 02451-1449

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) (1) JULY 31 (2) JULY 31

- Assignment Merger
- Security Agreement Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other

4. Application or patent number(s):

A. Patent Application No.(s)

This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Thomas J. Finn, Esq.

Internal Address: Patent Docketing

Street Address: 2000 E. El Segundo Blvd.

EO/E04/N119

City: El Segundo

State: CA Zip: 90245

Phone Number: 310-647-3723

Fax Number:

Email Address: John_E_Gunther@raytheon.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 50-0888

Authorized User Name John E. Gunther, E

9. Signature:

Signature

8/8/2006

Date

John E. Gunther, Reg. No. 43,649

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

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

112950 U.S. PTO
 11/501563
 080906
 11501563
 00080115 300888
 40.00 DA
 08/15/2006
 01 FC 8021

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) **COHERENT NEAR-FIELD ARRAY** for which applications for Letters Patent of the United States has been executed by me on this day, or (if the following is completed) filed on _____ as Serial No. _____; and

WHEREAS, RAYTHEON (hereinafter referred to as 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 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; 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 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.

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR DAVID D. CROUCH	INVENTOR'S SIGNATURE <i>David D. Crouch</i>	DATE 7/31/06
RESIDENCE (CITY AND STATE) CORONA, CA		INVENTION AGREEMENT DATE 11/25/91

FULL NAME OF SOLE OR JOINT INVENTOR MICHAEL J. SCHWEIGER	INVENTOR'S SIGNATURE <i>Michael J. Schweiger</i>	DATE 31 Jul 06
RESIDENCE (CITY AND STATE) MORENO VALLEY, CA		INVENTION AGREEMENT DATE 12/06/83

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE

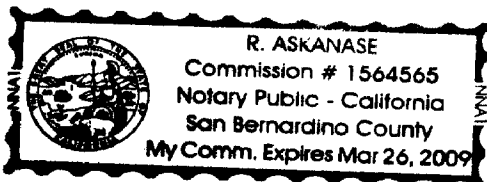
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE

STATE OF California)
COUNTY OF San Bernardino) ss:

On 31 July 2006 before me, R. Askanase, a Notary Public in and for said State, personally appeared **DAVID D. CROUCH**, personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/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.

Notary Public R. Askanase



STATE OF California
COUNTY OF San Bernardino

SS:

On 31 July 2006 before me, R. Askanase

a Notary Public in and for said State, personally appeared **MICHAEL J. SCHWEIGER**, personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/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.

Notary Public R. Askanase

