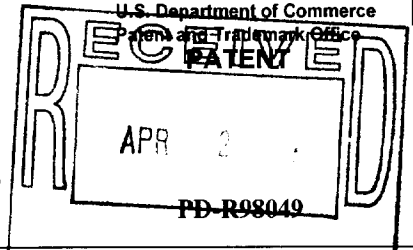


04-14-1999



101010451

RECORDATION FORM COVER SHEET
PATENTS ONLY



TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

New

Resubmission (Non-Recordation)
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Correction of PTO Error
Reel # _____ Frame # _____

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Reel # 9489 Frame # 0488

Conveyance Type

Assignment Security Agreement

License Change of Name

Merger Other _____

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Departmental File Secret File

4.2.99

Conveying Party(ies)

Mark if additional names of conveying parties attached Execution Date
Month Day Year

Name (line 1) Sidney C. Chao 03-26-99

Name (line 2) _____

Second Party

Execution Date
Month Day Year

Name (line 1) Robert W. Beach 03-26-99

Name (line 2) _____

Receiving Party

Mark if additional names of receiving parties attached

Name (line 1) RAYTHEON COMPANY

Name (line 2) _____

Address (line 1) Bldg. R11. M/S M365

Address (line 2) P.O. Box 902

Address (line 3) El Segundo California 90245
City State/Country Zip Code

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name Colin M. Raufer. Reg. No. 40.781

Address (line 1) Bldg. R11, M.S. M365

Address (line 2) P.O. Box 902

Address (line 3) El Segundo, California 90245

Address (line 4) _____

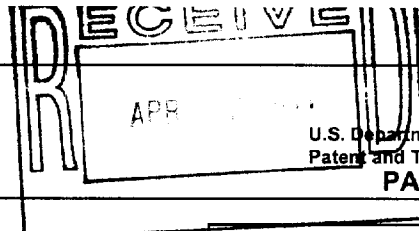
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Commissioner of Patents and Trademarks, Box Assignments, Washington, DC 20231

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Correspondent Name and Address

Area Code and Telephone Number (310) 334-3232

Name Patent Records Administration

Address (line 1) RAYTHEON COMPANY

Address (line 2) Bldg. R11, M/S M365

Address (line 3) P.O. Box 902

Address (line 4) El Segundo, California 90245

Pages Enter the total number of pages of the attached conveyance document including any attachments. # 2

Application Number(s) or Patent Number(s) Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

09/122,390						

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor. Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number PCT PCT
only if a U.S. Application Number PCT PCT
has not been assigned.

Number of Properties Enter the total number of properties involved. # 1

Fee Amount Fee Amount for Properties Listed (37 CFR 3.41): \$ 80.00

Method of Payment: Enclosed Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number: # 50-0616

Authorization to charge additional fees: Yes No

Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Colin M. Raufer, Reg. No. 40,781
Name of Person Signing

Colin M. Raufer
Signature

03/30/99
Date

RECORDATION FORM COVER SHEET
CONTINUATION
PATENTS ONLY

Conveying Party(ies)

Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Execution Date
Month Day Year

Name (line 1) Nelson W. Sorbo

03-16-99

Name (line 2)

Execution Date
Month Day Year

Name (line 1) Edna M. Purer

03-16-99

Name (line 2)

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Receiving Party(ies)

Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

Name (line 1)

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3) City State/Country Zip Code

Name (line 1)

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3) City State/Country Zip Code

Application Number(s) or Patent Number(s)

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

09/122,390		

ASSIGNMENTPage 1 of 2
PD-R98049

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 **PROCESS FOR CLEANING, DISINFECTING, AND STERILIZING MATERIALS USING THE COMBINATION OF DENSE PHASE GAS AND ULTRAVIOLET RADIATION** 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 July 24, 1998 as Serial No. 09/122,390; 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.

ASSIGNMENTPage 1 of 2
PD-R98049

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 **PROCESS FOR CLEANING, DISINFECTING, AND STERILIZING MATERIALS USING THE COMBINATION OF DENSE PHASE GAS AND ULTRAVIOLET RADIATION** 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 July 24, 1998 as Serial No. 09/122,390; 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.

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR Sidney C. Chao	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) 752 14 th Street, Manhattan Beach, California 90266		INVENTION AGREEMENT DATE June 15, 1981

FULL NAME OF SOLE OR JOINT INVENTOR Robert W. Beach	INVENTOR'S SIGNATURE <i>Robert W. Beach</i>	DATE 3/26/99
RESIDENCE (CITY AND STATE) 617 South Broadway #5, Redondo Beach, California 90277		INVENTION AGREEMENT DATE February 15, 1971

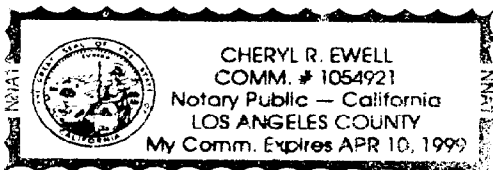
FULL NAME OF SOLE OR JOINT INVENTOR Nelson W. Sorbo	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) 605 Emerald Street, Redondo Beach, California 90277		INVENTION AGREEMENT DATE July 1, 1991

FULL NAME OF SOLE OR JOINT INVENTOR Edna M. Purer	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) 828 North Crescent Heights Boulevard, Los Angeles, California 90046		INVENTION AGREEMENT DATE September 8, 1981

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES) SS:
On MARCH 26, 1999 before me, CHERYL R. EWELL,
a Notary Public in and for said State, personally appeared ROBERT W. BEACH

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 *Cheryl R. Ewell*

ASSIGNMENTPage 1 of 2
PD-R98049

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 **PROCESS FOR CLEANING, DISINFECTING, AND STERILIZING MATERIALS USING THE COMBINATION OF DENSE PHASE GAS AND ULTRAVIOLET RADIATION** 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 July 24, 1998 as Serial No. 09/122,390; 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.

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR Sidney C. Chao	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) 752 14 th Street, Manhattan Beach, California 90266		INVENTION AGREEMENT DATE June 15, 1981

FULL NAME OF SOLE OR JOINT INVENTOR Robert W. Beach	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) 617 South Broadway #5, Redondo Beach, California 90277		INVENTION AGREEMENT DATE February 15, 1971

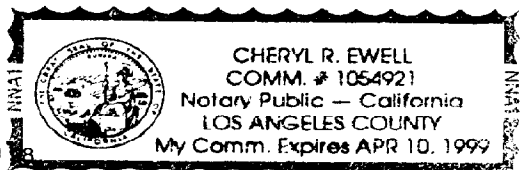
FULL NAME OF SOLE OR JOINT INVENTOR Nelson W. Sorbo	INVENTOR'S SIGNATURE <i>Nelson W. Sorbo</i>	DATE 3/16/99
RESIDENCE (CITY AND STATE) 605 Emerald Street, Redondo Beach, California 90277		INVENTION AGREEMENT DATE July 1, 1991

FULL NAME OF SOLE OR JOINT INVENTOR Edna M. Purer	INVENTOR'S SIGNATURE <i>E. M. Purer</i>	DATE 3/16/99
RESIDENCE (CITY AND STATE) 828 North Crescent Heights Boulevard, Los Angeles, California 90046		INVENTION AGREEMENT DATE September 8, 1981

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES) SS:
On MARCH 16, 1999 before me, CHERYL R. EWELL,
a Notary Public in and for said State, personally appeared NELSON W. SORBO

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 *Cheryl R. Ewell*

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR Sidney C. Chao	INVENTOR'S SIGNATURE <i>Sidney C. Chao</i>	DATE 03/24/99
RESIDENCE (CITY AND STATE) 752 14 th Street, Manhattan Beach, California 90266		INVENTION AGREEMENT DATE June 15, 1981

FULL NAME OF SOLE OR JOINT INVENTOR Robert W. Beach	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) 617 South Broadway #5, Redondo Beach, California 90277		INVENTION AGREEMENT DATE February 15, 1971

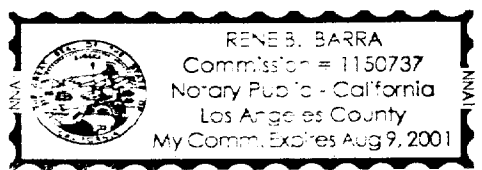
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FULL NAME OF SOLE OR JOINT INVENTOR Edna M. Purer	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) 828 North Crescent Heights Boulevard, Los Angeles, California 90046		INVENTION AGREEMENT DATE September 8, 1981

STATE OF California)
 COUNTY OF Los Angeles) SS:
 On March 26, 1999 before me, Rene B. Barra
 a Notary Public in and for said State, personally appeared Sidney C. Chao

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 Rene B. Barra