02-02-2001 THE BUT HE WE WE HAVE THE HE HE HE HE 101603122



U.S. Department of Commerce **Patent and Trademark Office PATENT**

> 11 11

RECORD	ATION FORM COVER SHEET
1/4 -	PATENTS ONLY
	rks: Please record the attached original document(s) or copy(ies).
Submission Type	Conveyance Type
X New	X Assignment Security Agreement
Resubmission (Non-Recordation) Document ID#	License Change of Name
Correction of PTO Error Reel # Frame #	Merger Other
Corrective Document	U.S. Government (For Use ONLY by U.S. Government Agencies)
Reel # Frame #	X Departmental File Secret File
Conveying Party(ies)	Mark if additional names of conveying parties attached Execution Date Month Day Year
Name (line 1) FREIBERGS, ELMER	062795
Name (line 2)	
Second Party	Execution Date Month Day Year
Name (line 1) WANDINGER, LOTHAR	062995
Name (line 2)	
Receiving Party	Mark if additional names of receiving parties attached
Name (line 1) Government of the Unite	d States of America, If document to be recorded is an assignment and the
Name (line 2) as represented by the S	ecretary of the Army, The receiving party is not domiciled in the United States, an appointment
Address (line 1)	of a domestic representative is attached.
Address (line I)	(Designation must be a separate document from
Address (line 2)	Assignment)
Address (line 3) Washington	DC U.S.A. 20310 US 497064
Domestic Representative Name and A	
Name	
Address (line 1)	
Address (line 2)	
Address (line 3)	
Address (line 4)	
	FOR OFFICE USE ONLY
201/2001 AAHMED1 00000206 192201 08497064	
FC:581 40.00 CH	

Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

Mail documents to be recorded with required cover sheet(s) information to: Commissioner of Patents and Trademarks, Box Assignments , Washington, D.C. 20231

FORM PTO-1619B Expires 06/30/99 OMB 0651-0027	Page 2	U.S. Department of Commerce Patent and Trademark Office PATENT
Correspondent Name and Address	Area Code and Telephone Number	(732) 532 -14 59
Name Ty a	· Company And Comp	332 1133
Name U.S. Army Communication	is-Electronics Command	TOP // EIN
Address (line 1) ATTN: AMSEL-LG-L (John	M. O'Meara, Esq.)	
Address (line 2) Fort Monmouth, NJ 0770	03-5010	N 1 6 2001
Address (line 3)		
Address (line 4)	II U	
Pages Enter the total number of pa	ges of the attached conveyance docu	ment
including any attachments.		# 2
Application Number(s) or Patent Nun	nber(s) Mark i	f additional numbers attached
Enter either the Patent Application Number or the F		
Patent Application Number(s)	Pater	nt Number(s)
08497064		
If this document is being filed together with a <u>new</u> Pate signed by the first named executing inventor.	nt Application, enter the date the patent application	tion was Month Day Year
Patent Cooperation Treaty (PCT)		
Enter PCT application number	PCT PCT PCT	PCT
only if a U.S. Application Number	PCT PCT	PCT
has not been assigned.		
Number of Properties Enter the total	tal number of properties involved.	# 1
Fee Amount Fee Amount	for Properties Listed (37 CFR 3.41):	\$ 40.00
Method of Payment: Enclo		
Deposit Account (Enter for payment by deposit account or if add	itional fees can be charged to the account.)	
, , , , , ,	Deposit Account Number:	# 19-2201
,	Authorization to charge additional fees:	Yes X No
Statement and Signature		
To the best of my knowledge and be	elief, the foregoing information is true	and correct and any
attached copy is a true copy of the o	original document. Charges to deposit	
indicated herein.	1 1 11 11 11	, .
JOHN M. O'MEARA	Hohn W. E. Wwar	a. 1/11/01
Name of Person Signing	Signature	Date

PATENT

REEL: 011477 FRAME: 0128

ASSIGNMENT OF INVENTION

For use of this form, see AR 27-30; the proponent agency is OTJAG

	RTURE ANTENNA S	YSTEM	
Inventor(e): ELMER FREIBERGS, LOTHAR V	NANDINGER		
*Application Serial No.: 08/497,064	Attorney Docket No.: _	CECOM 5067	
*Date Oath Executed: 27&29 June 1995	•Filing Date:30	June 1995	
*(Data not known at execution may be added for better	identification.)		
I(We), the undersigned inventor(s), in considera virtue of the circumstances under which the above-entiti			ited States acquired by
1. Assign to the Government of the United State right, title and interest throughout the United States, its invention and application for patent and all Letters Patent of said application and any reissue or extension of said I	Territories, Possessions tissuing thereon, and an	, and Puerto Rico, in ar	nd to the above-entitled
2. Agree to assign to the Government upon it countries in which the Government, within eight months cause an application to be filed; provided that if the Goparticular foreign country or fails to make such a determinvention in such foreign country shall remain in me (upon Government in any patent which may issue on the invention use in behalf of the Government and/or in furtherance	of the filing of the Unite overnment determines i lination, within the said s), subject to a nonexc stion in such foreign cou	ed States application for not to cause an application eight months, all right, lusive, irrevocable, roy intry, including the pow	or patent, determines to ation to be filed in any title and interest in the valty-free license to the
3. Agree to provide any further information necessary to the prosecution of patent applications on recording of title to patent applications and patents issuit	the invention, the pro- ing thereon.		•
(First name)	(Middle Initial)	(La:	st Name)
Army Research Laboratory, Duty Address: Fort Monmouth, Monmouth	County, No		
(Locality)	(County)	(St	ate)
Date: June 27, 95 Typed Name of Inv	entor:ELMER F	REIBERGS	·
Date: June 27, 95 Typed Name of Inv	entor: ELMER F	REIBERGS	
Date: June 27, 95 Typed Name of Inv State of NEW JERSEY	entor: ELMER F	REIBERGS	
	entor: ELMER F	REIBERGS	
State of NEW JERSEY NONE OF THE PROPERTY SEEDINGS AND ADMINISTRATION OF THE PROPERTY SEEDINGS AND ADMINISTRAT	known to me to be	the individual describe	
State of NEW JERSEY County of MONMOUTH On the above date ELMER FREIBERGS the foregoing instrument duly appeared before me and account of the state	known to me to be	the individual describe he/she executed the sa	

DA FORM 2874-R, APR 93 REPLACES DA FORM 2874-R, MAR 74, WHICH IS OBSOLETE. Page 1 of 2Pages

ELMER FREIBERGS LOTHAR WANDINGER DUAL-MODE, COMMON-APERTURE ANTENNA ST SIGNATURE OF INVENTOR: Army Research Laboratory, Physical St DUTY ADDRESS: ATTN: AMSRL-EP-MA, Fort Monmouth, I DATE SIGNED: 29 June 95 INVENTOR'S TYPED NAME: STATE OF NEW JERSEY COUNTY OF MONMOUTH On the above date LOTHAR WANDINGER known to executed the foregoing instrument duly appeared before me and soknowledged to free act and deed. (SEAL)	APPLICATION SERIAL NUMBER 08/497,064 PILING DATE 30 June 1995 STEM Corner County Contract C
ELMER FREIBERGS LOTHAR WANDINGER TITLE OF INVENTION DUAL-MODE, COMMON-APERTURE ANTENNA S' SIGNATURE OF INVENTOR: Army Research Laboratory, Physical S DUTY ADDRESS: ATTN: AMSRL-EP-MA, Fort Monmouth, I DATE SIGNED: 19 July 45 INVENTOR'S TYPED NAME: COUNTY OF MONMOUTH SS. On the above date LOTHAR WANDINGER known to except and deed. (SEAL) My Commission expired My Commission expired	APPLICATION SERIAL NUMBER 08/497,064 PILING DATE 30 June 1995 STEM Coiences Directorate, Monmouth County, NJ 07703 LOTHAR WANDINGER
ELMER FREIBERGS LOTHAR WANDINGER DUAL-MODE, COMMON-APERTURE ANTENNA S' SIGNATURE OF INVENTOR: Army Research Laboratory, Physical S ATTN: AMSRL-EP-MA, Fort Monmouth, I DATE SIGNED: 29 July 45 INVENTOR'S TYPED NAME: STATE OF NEW JERSEY COUNTY OF MONMOUTH On the above date LOTHAR WANDINGER known to exceed the foregoing instrument duly appeared before me and acknowledged to free act and deed. (SEAL) My Commission expired	O8/497,064 D. FILING DATE 30 June 1995 CSTEM Cociences Directorate, Monmouth County, NJ 07703 LOTHAR WANDINGER
SIGNATURE OF INVENTOR: DUAL-MODE, COMMON-APERTURE ANTENNA STATE OF NEW JERSEY COUNTY OF On the above date LOTHAR WANDINGER exacuted the foregoing instrument duly appeared before me and acknowledged to the sext and deed. NEW JERSEY WY Commission expire	SCIENCES Directorate, fonmouth County. NJ 07703 LOTHAR WANDINGER
SIGNATURE OF INVENTOR: DUAL-MODE, COMMON-APERTURE ANTENNA STATE OF NEW JERSEY On the above date LOTHAR WANDINGER known to executed the foregoing instrument duly appeared before me and soknowledged to free set and deed. SIGNATURE OF INVENTOR:	Garagna Garagn
Army Research Laboratory, Physical S DUTY ADDRESS: ATTN: AMSRL-EP-MA, Fort Monmouth, I DATE SIGNED: 29 July 95 INVENTOR'S TYPED NAME: STATE OF NEW JERSEY COUNTY OF MONMOUTH On the above date LOTHAR WANDINGER known to executed the foregoing instrument duly appeared before me and soknowledged to free sot and deed. (SEAL) My Commission expire	Sciences Directorate, Sonmouth County, NJ 07703 LOTHAR WANDINGER
Army Research Laboratory, Physical and Attn: AMSRL-EP-MA, Fort Monmouth, It Date signed: 29 July 95 Inventor's typed name: State of New Jersey County of Monmouth On the above date Lothar Wandinger known to executed the foregoing instrument duly appeared before me and acknowledged to free act and deed. (SEAL) My Commission expire	Sciences Directorate, Monmouth County. NJ 07703 LOTHAR WANDINGER me to be the individual described in and who
Army Research Laboratory, Physical and Attn: AMSRL-EP-MA, Fort Monmouth, It Date signed: 29 July 95 Inventor's typed name: State of New Jersey County of Monmouth On the above date Lothar Wandinger known to executed the foregoing instrument duly appeared before me and acknowledged to free act and deed. (SEAL) My Commission expire	Sciences Directorate, Monmouth County. NJ 07703 LOTHAR WANDINGER me to be the individual described in and who
DUTY ADDRESS: ATTN: AMSRL-EP-MA, Fort Monmouth, Indiana Signature of Inventor's typed Name: STATE OF NEW JERSEY COUNTY OF MONMOUTH On the above date LOTHAR WANDINGER known to executed the foregoing instrument duly appeared before me and acknowledged to free act and deed. (SEAL) My Commission expire	LOTHAR WANDINGER me to be the individual described in and who
STATE OF NEW JERSEY COUNTY OF MONMOUTH On the above date LOTHAR WANDINGER known to executed the feregoing instrument duly appeared before me and acknowledged to free act and deed. (SEAL) My Commission expire	me to be the individual described in and who
COUNTY OF MONMOUTH On the above date LOTHAR WANDINGER known to executed the foregoing instrument duly appeared before me and acknowledged to free act and deed. (SEAL) My Commission expire	
COUNTY OF MONMOUTH On the above date LOTHAR WANDINGER known to executed the foregoing instrument duly appeared before me and acknowledged to free act and deed. (SEAL) My Commission expire	
On the above date LOTHAR WANDINGER known to executed the foregoing instrument duly appeared before me and acknowledged to free act and deed. (SEAL) My Commission expire	
executed the foregoing instrument duly appeared before me and acknowledged to free act and deed. (SEAL) My Commission expire assume the second of the seco	
executed the foregoing instrument duly appeared before me and acknowledged to free act and deed. (SEAL) My Commission expire signature of inventor:	
(SEAL) My Commission expire SIGNATURE OF INVENTOR:	
My Commission expire	_
My Commission expire	$\rho \rho \rho$.
SIGNATURE OF INVENTOR:	la Drika
SIGNATURE OF INVENTOR:	(Elignoture of notary public)
SIGNATURE OF INVENTOR:	URSULA BUKI
	* on Notary Public of New Jersey
	My Commission Expires May 16, 2000
(First name) (SEction Initial)	
	East name)
DUTY ADDRESS:	
DOTT ADDRESS.	
DATE SIGNED: INVENTOR'S TYPED NAME	
ALL STORES.	·· ———————————————————————————————————
STATE OF	
COUNTY OF	
On the above date	o me to be the individual described in and who
executed the foregoing instrument duly appeared before me and acknowledged	
free act and deed.	
(SEAL)	
	(Signature of ridings public)
My Commission expir	
PA FORM 4230-R, APR 93 REPLACES DA FORM 4230-R, MAR 74, WHICH IS O	

PATENT REEL: 011477 FRAME: 0130

RECORDED: 01/16/2001