Su	bstitute Form PTO-1595 RE(	04-06-	1998	Attorney Dock	et No.: 07206/043001
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٩s	sistant Commissioner for Patents: Ple	10067	5055	nt.	× * * * * * * * * * * * * * * * * * * *
1.	Name of conveying party(ies): Thomas V. Sikina, Oscard J. Bedigian and Jack J. Schuss		<ol> <li>Name</li> <li>Rayth</li> <li>141 S</li> </ol>	e and address of receiving neon Company Spring Street ngton, MA 02173	g party(ies): 1,200 000 000 000 000 000 000 000 000 000
	Additional name(s) attached? ☐ Yes ■	No	L-CXIII	igion, WA 02173	
3.	Nature of conveyance:  ■ Assignment □ Merger □ Security Agreement □ Change of Name □ Other:			onal names/addresses at s ■ No  d0 00*05 £2586060 99	Spanoati 01 FC:581 03/27/1998 JWATKINS 000000
	Execution Date: March 9th and 10th, 1	998			
1.	Application number(s) or patent number of this document is being filed with a new A. Patent Application No.(s):		execution da B. Patent		March 9 & 10, 1998
	Additio	onal numbers atta	ached? □ Ye	es <b>I</b> No	
5.	Name/address of party to whom corresp concerning document should be mailed:	ondence		number of applications/pa	atents involved: 1
	Richard M. Sharkansky Fish & Richardson P.C. 225 Franklin Street Boston, MA 02110-2804		■ En	fee (37 CFR 3.4 ): \$40 closed thorized to charge depos	it account
			If the accou	sit account number: <b>06-1</b> 0 fee above is being charg int, a duplicate copy of the led. Please apply any acredits, to our Deposit Acc	ed to deposit is cover sheet is dditional charges, or
		DO NOT USE	THIS SPACE	<u> </u>	
<del></del>	Statement and signature: To the best of and the attached is the original docume		nd pellet the	e foregoing information i	s true and correct
	Richard M. Sharkansky May H 25 50		<i>Y</i> /		3/14/98
	Name of Person Signing	Signature		Da	ite /
	Total number of pages	including cover	sheet, attach	ments, and document: 3	
		"!	EXPRESS MAIL	" Mailing Label Number <u>2-171</u>	<u>040956</u> 165U
		1) 1 de <b>P</b> in	ate of Deposit hereby certify un eposited with the ost Office To Ac	der 37 CFR 1.10 that this corresp United States Postal Service as "ddressee" with sufficient postage and is addressed to the Assistant Co	ordence is being Express Mail on the date
		_	Lac RESTA	PAGENT 2053 PRAME: 0	284

## ASSIGNMENT

COUNTY OF M, Wesex:  Before me this 10th day of March, 1998, personally appeared
MA 02173 and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled PHASED ARRAY ANTENNA CALIBRATION SYSTEM AND METHOD USING ARRAY CLUSTERS, filed, and assigned U.S. Serial Number, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.  IN WITNESS WHEREOF, I hereto set my hand and seal at
title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled PHASED ARRAY ANTENNA CALIBRATION SYSTEM AND METHOD USING ARRAY CLUSTERS, filed, and assigned U.S. Serial Number, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.  IN WITNESS WHEREOF, I hereto set my hand and seal at
application for United States Patent signed by us, entitled PHASED ARRAY ANTENNA CALIBRATION SYSTEM AND METHOD USING ARRAY CLUSTERS, filed, and assigned U.S. Serial Number, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.  IN WITNESS WHEREOF, I hereto set my hand and seal at
Number
Number
Number
this
Thomas V. Sikina  STATE OF Massachusetts:  COUNTY OF Middlesex:  Before me this 10th day of March, 1998, personally appeared
Thomas V. Sikina  STATE OF Messachusetts:  COUNTY OF My Wessex:  Before me this 10th day of March, 1998, personally appeared
COUNTY OF M, Wesex:  Before me this 10th day of March, 1998, personally appeared
known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.    Siking   known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.    Siking   known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.
My Commission Expires: Nov. 5, 3001 [Notary's Seal Here]

PATENT REEL: 9053 FRAME: 0285

IN WITNESS WHEREOF, I hereto set my hand and seal at
this <u>10th</u> day of <u>March</u> , 1998
Oscar J. Bedigian L.S
Oscar J. Bedigian
STATE OF Massachusetts:
COUNTY OF MILLIES ex:
Before me this 10th day of March, 1998, personally appeared
Oscar T. Bedigian known to me to be the person whose name is subscribed to the
foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the
purposes therein contained.
Notary Public Refer Distolines
My Commission Expires: Nov 9 2007
[Notary's Seal Here]
IN WITNESS WHEREOF, I hereto set my hand and seal at Andoren Massachusetts
this 9th day of March 19°8
Jack J. Schuss L.S
Jack J. Schuss
STATE OF Massachusetis:
SS.
COUNTY OF MISSING :
Before me this 9th day of March, 1998, personally appeared
Jack J. Schuss known to me to be the person whose name is subscribed to the
foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the
purposes therein contained.
Notary Public Pager Dulchings
Notary Public Pater Dulchings
My Commission Expires: Nov 3, 2001
[Notary's Seal Here]

RECORDED: 03/16/1998

PATENT REEL: 9053 FRAME: 0286