PATENTS ONLY

TO THE HONORAE Please record the AND TRADEMARKS

: or copy thereof.

101676995 1. Name of Party(ies) conveying an 2. Name and Address of Party(ies) receiving an interest: interest: Northrop Grumman Corporation

David L. Richardson Andrzej Sobski Kenneth D. Gorham Scott A Stratmoen

mind

1840 Century Park East Los Angeles, CA 90067-2199

Scott A. Stratiliden 3/12/0/	A Delaware Corporation	
3. Description of the instrument of conve	vance: ASSIGNMENT	
3. Description of the institute of conve	, and a second s	
4. This document is being filed together	with a new application, the	
execution date of the application is:	February 27, 2001	
execution date of the approximation		
5.1	09804355	
February 27	, 2001	
The title is: RADIO TAG FOR LFM RADAR		
	6. Number of applications/patents	
5. Name and address of party to whom	involved:	
correspondence concerning document should be mailed:	1	
Should be marrow.	7. Amount of fee enclosed or authorized to	
Northrop Grumman Corporation	be charged:	
1840 Century Park East		
Los Angeles, CA 90067-2199	\$40.00	
(310) 332-5666	8. Deposit account number (Attach	
	duplicate copy of this form if paying by	
	deposit account:	
	14-1325	
DO NOT US	SE THIS SPACE	
9. Date of execution of attached documen	t: <u>February 27, 2001</u>	
10. To the best of my knowledge and belief, the information contained on this		
coversheet is true and correct and any copy submitted is a true copy of the original		
document.		
	$f)_{\lambda}$ $f)_{\lambda}$	
March 9, 2001	· Jru + 1 R	
Date	Bruce B. Brunda	

ASSIGNMENT

NORTH- 195A A- 2240

WHEREAS,	Andrzej Sobski '	hereinafter referred to as Assignor		
together with	Kenneth D. Gorham, Scott A. Stratmoe	en and David L. Richardson		
nave jointly in	nvented certain new and useful improvements in	RADIO TAG FOR LFM RADAR		

described in an application for United States Letters Patent, executed by me on the date as stated below;

WHEREAS, Northrop Grumman Corporation, a Delaware corporation, having its principal place of usiness at 1840 Century Park East, Los Angeles, California 90067, hereinafter referred to as ssignee, is desirous of acquiring the entire right, title and interest in, to and under said mprovements and said application:

NOW, THEREFORE, in consideration of Assignor's obligations to Northrop Grumman, and for other ood and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ssignor has sold, assigned, transferred and set over, and by these presents does hereby sell, ssign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, ssignor's entire right, title and interest in, to and under said improvements, and said application and all divisions, renewals, continuations, and continuations-in-part thereof, and all United tages Letters Patent which may be granted thereon and all reissues and extensions thereof, and all polications for Letters Patent which may hereafter be filed for said improvements in any country or puntries foreign to the United States, including the full right to claim for any such application e priority benefits of the International Convention for the Protection of Industrial Property and ther priority-conferring treaties, and all Letters Patent which may be granted for said provements in any country or countries foreign to the United States and all extensions, divisions, ntinuations, continuations-in-part, renewals and reissues thereof; and Assignor hereby authorizes d requests the Commissioner of Patents and Trademarks of the United States, and any official of y country or countries foreign to the United States, whose duty it is to issue patents on plications as aforesaid, to issue all Letters Patent for said improvements to said Assignee, its ccessors, legal representatives and assigns, in accordance with the terms of this instrument;

Assignor hereby acknowledges that at the time of making the improvements herein identified, signor was under an obligation to assign to Assignee, Assignor's entire right, title and interest to and under said improvements;

Assignor hereby covenants that Assignor has full right to convey the interest herein signed, and that Assignor has not executed, and will not execute, any agreement in conflict rewith and that Assignee, Northrop Corporation, its successors, assigns and other legal presentatives shall have the right to hold and enjoy for its and their own use and benefit, to the of the term or terms for which such Letters Patent shall or may be granted, reissued or extended fully and completely as the same might or could have been held and enjoyed by Assignor had this ignment not been made.

Assignor hereby further covenants and agrees to communicate to Assignee, its successors, all representatives and assigns, any and all facts known to Assignor respecting said improvements; promptly provide Assignor with all documents relating to said improvements, said invention, and distinct the factor of the factor of the same in any efference or litigation or other legal proceedings related thereto; to sign all lawful papers, the factor of the same in any cute all extensions, continuations, continuations-in-part, divisional and reissue applications; to make all rightful oaths or declarations and generally do everything possible to aid Assignee, successors, legal representatives and assigns in obtaining and enforcing all the rights herein reyed for said improvements in all countries without further compensation, but at the expense of the same in successors, legal representatives and assigns.

IN NITNESS WHEREOP, the undersigned has ex	
application on the 27 day of fe	bruary, 19 2001.
Andrifi Solski	
(Assignor) Andrzej Sobski	
STATE OF MUNGS	
COUNTY OF COOK	
J. P	. A.)
on femiliary of 20	O) before me,
LOVISE A. FOISSON	, personally
appeared Andruj. SUBSKi	, personally known to me
or proved to me on the basis of satisfactory evid	ence to be the person(s) whose name(s) is/are
subscribed to this instrument and acknowledged to	me that he/she/they
xecuted the same in his/her/their authorized cap	acity(ies), and that by his/her/their signature(s)
n the instrument the person(s), or the entity up	on behalf of which the person(s) acted, executed
ne instrument.	
ITNESS my hand and official seal	
	\mathcal{L} . \mathcal{L} .
Sign	atura Aust (N / Masser) (Seal)
LOUISE A POISSON, Notary Public &	(Seal)
Kane County, State of Illinois	/
My Commission Expires 03/16/2002	

ASSIGNMENT

NORTH- 39FA A- 2240

WHEREAS, I	. Kenneth D. Gorham	, hereinafter referred to as Assignor
rogether with	Scott A. Stratmoen, David L. Richardson	and Andrzej Sobski
have jointly inve	ented certain new and useful improvements in	RADIO TAG FOR LFM RADAR

described in an application for United States Letters Patent, executed by me on the date as stated below;

WHEREAS, Northrop Grumman Corporation, a Delaware corporation, having its principal place of pusiness at 1840 Century Park East, Los Angeles, California 90067, hereinafter referred to as Assignee, is desirous of acquiring the entire right, title and interest in, to and under said improvements and said application:

NOW, THEREFORE, in consideration of Assignor's obligations to Northrop Grumman, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ssignor has sold, assigned, transferred and set over, and by these presents does hereby sell, ssign, transfer and set over, unto Assignee, its successors, legal representatives and assigns. ssignor's entire right, title and interest in, to and under said improvements, and said application and all divisions, renewals, continuations, and continuations-in-part thereof, and all United tates Letters Patent which may be granted thereon and all reissues and extensions thereof, and all polications for Letters Patent which may hereafter be filed for said improvements in any country or puncties foreign to the United States, including the full right to claim for any such application ne priority benefits of the International Convention for the Protection of Industrial Property and ther priority-conferring treaties, and all Letters Patent which may be granted for said approvements in any country or countries foreign to the United States and all extensions, divisions, ontinuations, continuations-in-part, renewals and reissues thereof; and Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and any official of my country or countries foreign to the United States, whose duty it is to issue patents on oblications as aforesaid, to issue all Letters Patent for said improvements to said Assignee, its ccessors, legal representatives and assigns, in accordance with the terms of this instrument;

Assignor hereby acknowledges that at the time of making the improvements herein identified, signor was under an obligation to assign to Assignee, Assignor's entire right, title and interest, to and under said improvements;

Assignor hereby covenants that Assignor has full right to convey the interest herein signed, and that Assignor has not executed, and will not execute, any agreement in conflict rewith and that Assignee, Northrop Corporation, its successors, assigns and other legal presentatives shall have the right to hold and enjoy for its and their own use and benefit, to the d of the term or terms for which such Letters Patent shall or may be granted, reissued or extended fully and completely as the same might or could have been held and enjoyed by Assignor had this signment not been made.

Assignor hereby further covenants and agrees to communicate to Assignee, its successors, gal representatives and assigns, any and all facts known to Assignor respecting said improvements; promptly provide Assignor with all documents relating to said improvements, said invention, and id Letters Patent as may be known or accessible to Assignor; to testify as to the same in any terference or litigation or other legal proceedings related thereto; to sign all lawful papers, it could all extensions, continuations, continuations-in-part, divisional and reissue applications; to make all rightful oaths or declarations and generally do everything possible to aid Assignee, successors, legal representatives and assigns in obtaining and enforcing all the rights herein tweyed for said improvements in all countries without further compensation, but at the expense of ignee, its successors, legal representatives and assigns.

IN WITT	ess whereop, t	he undersigned	has executed a	nd delivered	this instrument this	
27	_ day of	EBUARY	, 19 <u>200</u> ,	, and has exec	ruted the referenced pa	tent
application or	the	day of	FEBUARY	, 19	2001	
Kenneth	D. Dorhan	7				
(Assignor)	Kenneth D.	Borham				
STATE OF	Ollenois	}	88			
COUNTY OF	wan	·················›				
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W KET	my y	Gornan	Lovise H.	Foisson/	, personally	
appeared	Kennet	a D. Oor	nam		, personally known	
_					n(s) whose name(s) is/a	re
			edged to me that			
executed the	same in his/he	/their authori	ized capacity(i	es), and that	by his/her/their signa	ture(s)
n the instru	ment the perso	(s), or the er	ntity upon behal	lf of which th	ne person(s) acted, exe	cuted
he instrument						
ITNESS my har	nd and officia	seal				
			Signature	Luise	a farmen	
,	"OFFICIAL "OFFICIAL LOUISE A POISSO Kane County S Kane Commission E	ate of Illinois	319:1acu1a <u>2</u>			(Seal)

NORTH- 395A A- 2240

WHEREAS, I. Scott A Stratmoen	hereinafter referred to as Assignor
together with David L. Richardson, Andrzej Sobski, and	Kenneth D. Gorham
have jointly invented certain new and useful improvements in	
RADIO TAG FOR LFM RADAR	

described in an application for United States Letters Patent, executed by me on the date as stated below;

WHEREAS, Northrop Grumman Corporation, a Delaware corporation, having its principal place of business at 1840 Century Park East, Los Angeles, California 90067, hereinafter referred to as Assignee, is desirous of acquiring the entire right, title and interest in, to and under said improvements and said application:

NOW, THEREFORE, in consideration of Assignor's obligations to Northrop Grumman, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, Assignor's entire right, title and interest in, to and under said improvements, and said application and all divisions, renewals, continuations, and continuations-in-part thereof, and all United States Letters Patent which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, including the full right to claim for any such application the priority benefits of the International Convention for the Protection of Industrial Property and other priority-conferring treaties, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, divisions, continuations, continuations-in-part, renewals and reissues thereof; and Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to said Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument;

Assignor hereby acknowledges that at the time of making the improvements herein identified. Assignor was under an obligation to assign to Assignee, Assignor's entire right, title and interest in, to and under said improvements;

Assignor hereby covenants that Assignor has full right to convey the interest herein assigned, and that Assignor has not executed, and will not execute, any agreement in conflict herewith and that Assignee, Northrop Corporation, its successors, assigns and other legal representatives shall have the right to hold and enjoy for its and their own use and benefit, to the end of the term or terms for which such Letters Patent shall or may be granted, reissued or extended as fully and completely as the same might or could have been held and enjoyed by Assignor had this assignment not been made.

Assignor hereby further covenants and agrees to communicate to Assignee, its successors, legal representatives and assigns, any and all facts known to Assignor respecting said improvements; to promptly provide Assignor with all documents relating to said improvements, said invention, and said Letters Patent as may be known or accessible to Assignor; to testify as to the same in any interference or litigation or other legal proceedings related thereto; to sign all lawful papers, execute all extensions, continuations, continuations—in—part, divisional and reissue applications; and to make all rightful oaths or declarations and generally do everything possible to aid Assignee, its successors, legal representatives and assigns in obtaining and enforcing all the rights herein conveyed for said improvements in all countries without further compensation, but at the expense of Assignee, its successors, legal representatives and assigns.

in withess wh	EREOF, the undersi	gned has executed and d	elivered this instrument this	
27th day	of February	, 19 2001, and	has executed the referenced	patent
application on the	27th day	of February	. 19 2001.	
Left to	ratural			
(Assignor) Scott	A. Stratmoen			
STATE OF Hingis	<u> </u>)		
COUNTY OF Cook) ss)		
\mathcal{I}	ebenares à	7 200/	before me,	
Loc	use A-Poi	SSON	, personally	
ppeared	Scott H. St	ratmoer	, personally kno	wn to me
	he basis of satisf	actory evidence to be t	he person(s) whose name(s) is	/are
abscribed to this i	instrument and ackn	nowledged to me that he/	she/they	
xecuted the same in	n his/her/their aut	chorized capacity(ies),	and that by his/her/their sig	nature(s)
the instrument th	ne person(s), or th	ne entity upon behalf of	which the person(s) acted, e	xecuted
ne instrument.				
TNESS my hand and	official seal			
		1		
LOUISE A Kane C My Commi	FFICIAL SEAL" L POISSON, Notary Public County, State of Illinois Ission Expires 03/16/2002	Signature	use Utusen	(Seal)

ASSIGNMENT

NORTH- 295A A- 2240

WHEREAS,	r. David L. Richardson	, hereinafter referred to as Assignor
together with	Andrzej Sobski, Kenneth D. Gorham and S	Scott A. Stratmoen
have jointly in	vented certain new and useful improvements	in RADIO TAG FOR LFM RADAR
	~~~~~~~	
described in an	application for United States Letters Pate	nt, executed by me on the date as stated

described in an application for United States Letters Patent, executed by me on the date as stated below;

WHEREAS, Northrop Grumman Corporation, a Delaware corporation, having its principal place of business at 1840 Century Park East, Los Angeles, California 90067, hereinafter referred to as Assignee, is desirous of acquiring the entire right, title and interest in, to and under said improvements and said application:

NOW, THEREFORE, in consideration of Assignor's obligations to Northrop Grumman, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, Assignor's entire right, title and interest in, to and under said improvements, and said application and all divisions, renewals, continuations, and continuations-in-part thereof, and all United States Letters Patent which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, including the full right to claim for any such application the priority benefits of the International Convention for the Protection of Industrial Property and other priority-conferring treaties, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, divisions, continuations, continuations-in-part, renewals and reissues thereof; and Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to said Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument;

Assignor hereby acknowledges that at the time of making the improvements herein identified, Assignor was under an obligation to assign to Assignee, Assignor's entire right, title and interest in, to and under said improvements;

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day of February 2001	ered this instrument this
application on the 27th day of February	Avanuad at
David L Richardson	•
(Assignor) David L. Richardson	
STATE OF Menors	
COUNTY OF COOL SS	
on Lebeurge 27 2001	
Impo M Days	before me,
appeared David / Richards	, personally
	<del>-</del>
or proved to me on the basis of satisfactory evidence to be the persubscribed to this instrument and acknowledged to me that it	, personally known to me
subscribed to this instrument and acknowledged to me that he/she/th	rson(s) whose name(s) is/are
one in his/her/their authorized game it.	
on the instrument the person(s) or the option	at by his/her/their signature(s)
on the instrument the person(s), or the entity upon behalf of which the instrument.	the person(s) acted, executed
ITNESS my hand and official seal	
"OFFICIAL SEAL" Signature	
LOUISE A POISSON Notice &	c vi oussil
My Commission Explanation	(Seal)
My Commission Expires 03/16/2002	

**RECORDED: 03/12/2001**