

07-19-2000

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101407884

Attached original documents or copy thereof.

1 Name of conveying party(ies):

Ryan M. Desrosiers

Craig A. Hornbuckle

Harvey L. Berger

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

2. Name and address of receiving party(ies):

Name: TRW Inc.

Internal Address: Law Dept.

Street Address: Bldg. E2/6051

One Space Park

City: Redondo Beach State: CA ZIP: 90278

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

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

Execution Date: June 8, 2000

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: June 8, 2000

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Patent Counsel

Internal Address: TRW Inc.

Law Dept.

Bldg. E2/6051

Street Address: One Space Park

City: Redondo Beach State: CA ZIP: 90278

6. Total number of applications and patents involved: 1

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

☐ Enclosed

☒ Authorized to be charged to deposit account

8. Deposit account number:

20-1515

(Attach duplicate copy of this page if paying by deposit account)

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9. 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.

Michael S. Yatsko  
Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: 7

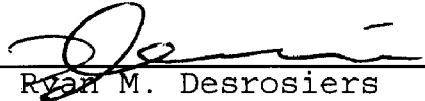
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## ASSIGNMENT

For valuable consideration, the adequacy and receipt of which are hereby acknowledged, we Ryan M. Desrosiers, Craig A. Hornbuckle, and Harvey L. Berger respectively, of Tigard, Oregon; Torrance, California; and Redondo Beach, California

do hereby sell and assign to TRW Inc., One Space Park, Redondo Beach, California, an Ohio corporation, its successors and assigns, the entire right, title and interest in and to the improvements in **EFFICIENT PRE-DISTORTED 12/4 QAM MODULATOR** which has been invented by us, as described in the application for United States Patent which we executed respectively, on June 8, 2000, June 13, 2000, and June 9, 2000, and any and all applications for patent and patents therefore in any and all countries, including all divisions, reissues, continuations, and extensions thereof, and the right to claim the priority date of the first filed application in the United States, and authorize and request any official whose duty it is to issue patents, to issue any patent on said improvements or resulting therefrom to said TRW Inc., or its successors or assigns, and agree that on request and without further consideration, but at the expense of TRW Inc., we will communicate to TRW Inc. or its representatives or nominees any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and generally do everything possible to aid TRW Inc., its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

6/8/00, 2000

Inventor:   
Ryan M. Desrosiers

\_\_\_\_\_, 2000

Inventor: \_\_\_\_\_  
Craig A. Hornbuckle

\_\_\_\_\_, 2000

Inventor: \_\_\_\_\_  
Harvey L. Berger

## ASSIGNMENT

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do hereby sell and assign to TRW Inc., One Space Park, Redondo Beach, California, an Ohio corporation, its successors and assigns, the entire right, title and interest in and to the improvements in **EFFICIENT PRE-DISTORTED 12/4 QAM MODULATOR** which has been invented by us, as described in the application for United States Patent which we executed respectively, on June 8, 2000, June 13, 2000, and June 9, 2000, and any and all applications for patent and patents therefore in any and all countries, including all divisions, reissues, continuations, and extensions thereof, and the right to claim the priority date of the first filed application in the United States, and authorize and request any official whose duty it is to issue patents, to issue any patent on said improvements or resulting therefrom to said TRW Inc., or its successors or assigns, and agree that on request and without further consideration, but at the expense of TRW Inc., we will communicate to TRW Inc. or its representatives or nominees any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and generally do everything possible to aid TRW Inc., its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

\_\_\_\_\_, 2000

Inventor:

Ryan M. Desrosiers

June 13, 2000

Inventor:

Craig A. Hornbuckle

June 9, 2000

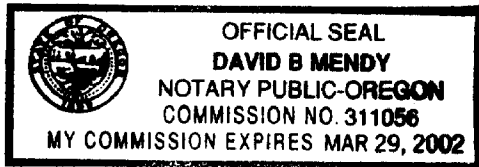
Inventor:

Harvey L. Berger

STATE OF OREGON )  
 ) ss  
COUNTY OF WASHINGTON )

On JUNE 8, 2000 before me, DAVID B MENDY  
personally appeared Ryan M. Desrosiers  
\_\_\_\_\_ personally known to me -or- X proved to me on the basis of  
satisfactory evidence to be the person whose name is subscribed to the  
within instrument and acknowledged to me the he/she executed the same in  
his/her authorized capacity, and that by his/her signature on the  
instrument the person, or the entity upon behalf of which the person acted,  
executed the instrument.

WITNESS my hand and official seal.



(SEAL)

David B Mendy  
Notary Public

STATE OF CALIFORNIA )  
 ) ss  
COUNTY OF LOS ANGELES )

On \_\_\_\_\_ before me, \_\_\_\_\_  
personally appeared Craig A. Hornbuckle  
\_\_\_\_\_ personally known to me -or- \_\_\_\_\_ proved to me on the basis of  
satisfactory evidence to be the person whose name is subscribed to the  
within instrument and acknowledged to me the he/she executed the same in  
his/her authorized capacity, and that by his/her signature on the  
instrument the person, or the entity upon behalf of which the person acted,  
executed the instrument.

WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public

(SEAL)

STATE OF OREGON )  
 ) ss  
COUNTY OF )

On \_\_\_\_\_ before me, \_\_\_\_\_  
personally appeared Ryan M. Desrosiers  
\_\_\_\_\_ personally known to me -or- \_\_\_\_\_ proved to me on the basis of  
satisfactory evidence to be the person whose name is subscribed to the  
within instrument and acknowledged to me the he/she executed the same in  
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WITNESS my hand and official seal.

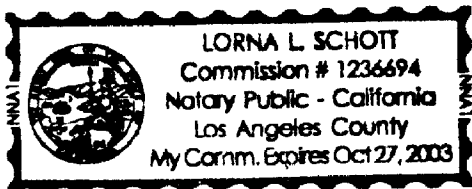
\_\_\_\_\_  
Notary Public

(SEAL)

STATE OF CALIFORNIA )  
 ) ss  
COUNTY OF LOS ANGELES )

on June 13, 2000 before me, Lorna L. Schott  
personally appeared Craig A. Hornbuckle  
~~\_\_\_\_\_ personally known to me~~ -or- ~~X~~ proved to me on the basis of  
satisfactory evidence to be the person whose name is subscribed to the  
within instrument and acknowledged to me ~~that~~ he/she executed the same in  
his/her authorized capacity, and that by his/her signature on the  
instrument the person, or the entity upon behalf of which the person acted,  
executed the instrument.

WITNESS my hand and official seal.



Lorna L. Schott  
Notary Public

(SEAL)

STATE OF CALIFORNIA )  
 ) ss  
COUNTY OF LOS ANGELES )

On June 9, 2000 before me, Lynn E. Cabiles  
personally appeared Harvey L. Berger  
~~personally known to me - or -~~ X proved to me on the basis of  
satisfactory evidence to be the person whose name is subscribed to the  
within instrument and acknowledged to me the he/she executed the same in  
his/her authorized capacity, and that by his/her signature on the  
instrument the person, or the entity upon behalf of which the person acted,  
executed the instrument.



WITNESS my hand and official seal.

Lynn E. Cabiles  
Notary Public

(SEAL)