

05-25-2001

FORM PTO-1595

(Rev. 6-97)

OMB No. 0351-0011 (exp. 4/94)

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

Tab settings

101730934

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Gregory P. Krishmar-Junker

Charles W. Chandler

Makkalon Em

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

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

Name: TRW Inc.

Internal Address: S&amp;EG Law Dept.

Street Address: Bldg. E2/6051

One Space Park

City: Redondo Beach State: CA ZIP: 90278

Additional name(s) &amp; address(es) attached?

☐ Yes ☒ No

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name
- ☐ Other

Execution Date: May 5, 2001

## 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: May 5, 2001

A. Patent Application No.(s)

09/860105

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.

S&amp;EG 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.

Robert W. Keller

Name of Person Signing

Signature

Date

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

5

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

(Form PTO-1595--Recordation Form Cover Sheet - page 1 of 3)

PATENT  
REEL: 011827 FRAME: 0161

# ASSIGNMENT

For valuable consideration, the adequacy and receipt of which are hereby acknowledged, we Gregory P. Krishmar-Junker, Charles W. Chandler, and Makkalon (NMI) Em respectively, of Redondo Beach, California, San Gabriel, California, and Venice, 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 **DUAL FREQUENCY SINGLE POLARIZATION FEED** which has been invented by us, as described in the application for United States Patent which we executed respectively, on May 15, 2001, May 9, 2001, and May 9, 2001, 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.

5/8, 2001

Inventor: Gregory P. Krishmar-Junker  
Gregory P. Krishmar-Junker

5/9, 2001

Inventor: Charles W. Chandler  
Charles W. Chandler

05-09, 2001

Inventor: Makkalon (NMI) Em  
Makkalon (NMI) Em

STATE OF CALIFORNIA

)  
) ss  
)

COUNTY OF LOS ANGELES

On May 15, 2001 before me, Michelle Christopher  
personally appeared Gregory P. Krishmar-Junker  
Y 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 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.



(SEAL)

Michelle Christopher  
Notary Public

STATE OF CALIFORNIA

)  
) ss  
)

COUNTY OF LOS ANGELES

On May 9, 2001 before me, Michelle Christopher  
personally appeared Charles W. Chandler  
Y 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 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.



(SEAL)

Michelle Christopher  
Notary Public

STATE OF CALIFORNIA

)

) ss

COUNTY OF LOS ANGELES

)

On May 9, 2001 before me, Michelle Christopher  
personally appeared Makkalon (NMI) Em  
X 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 that he/~~she~~ executed the same in  
his/~~her~~ authorized capacity, and that by his/~~her~~ signature on the  
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(SEAL)

Michelle Christopher  
Notary Public