

06-19-2001



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Tab settings

To the Honorable Commissioner of Patents and Trademarks

3 original documents or copy thereof.

1. Name of conveying party(ies):

James E. Leight
David L. Rollins
Richard A. Fields

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

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

Name: TRW Inc.

Internal Address: S&EG 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:

MRD 6-6-01

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: May 22, 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 22, 2001

A. Patent Application No.(s)

B. Patent No.(s)

09876017

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&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.

Noel F. Heal
Name of Person Signing

Noel F. Heal
Signature

6/5/01
Date

06/18/2001 DBYRNE 00000089 201515 0507017 Number of pages including cover sheet, attachments, and document: 7

01 FC:581 40.00 CH

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)

ASSIGNMENT

For valuable consideration, the adequacy and receipt of which are hereby acknowledged, we James E. Leight, David L. Rollins, and Richard A. Fields respectively, of San Ramon, California, Woodinville, Washington, 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 **RF Combiner Based On Cascaded Optical Phase Modulation** which has been invented by us, as described in the application for United States Patent which we executed respectively, on May 22, 2001, May 30, 2001, and June 5, 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.

_____, 2001

Inventor: James E. Leight

5/30, 2001

Inventor: David L. Rollins

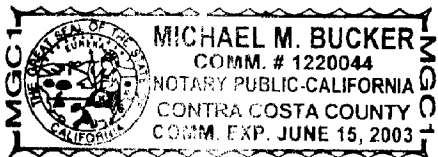
6/5, 2001

Inventor: Richard A. Fields

STATE OF CALIFORNIA)
) ss
COUNTY OF CONTRA COSTA)

On 5/22/01 before me, MICHAEL M BUCKER
_____ personally appeared James E. Leight
_____ 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.



[Signature]
Notary Public

(SEAL)

STATE OF WASHINGTON)
) ss
COUNTY OF)

On _____ before me, _____
personally appeared David L. Rollins
_____ 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.

Notary Public

(SEAL)

STATE OF CALIFORNIA)
)ss
COUNTY OF CONTRA COSTA)

On _____ before me, _____
_____ personally appeared James E. Leight
_____ 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.

Notary Public

(SEAL)

STATE OF WASHINGTON)
)ss
COUNTY OF Snohomish)

On 5.30.01 before me, Jacqueline P. Ross
personally appeared David L. Rollins
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 instrument the person, or the entity upon behalf
of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Jacqueline P. Ross
Notary Public

(SEAL)

STATE OF CALIFORNIA

)
) ss
)

COUNTY OF LOS ANGELES

On June 5, 2001 before me, Lorna L. Schott

personally appeared Richard A. Fields

I 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.

Lorna L. Schott

Notary Public

(SEAL)