

03-22-1999

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To the Honorable Commissioner of Pat

100988711

attached original documents or copy thereof.

1. Name of conveying party(ies):

Timothy A. Vang
David C. Scott

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

Name: TRW Inc.

Internal Address: Law Dept.

Bldg. E2/6072

Street Address: One Space Park

City: Redondo Beach State: CA ZIP: 90278

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

3-549 U.S. PTO
09/265913
03/10/99

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date: March 9, 1999

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: March 10, 1999

A. Patent Application No.(s)

B. Patent No.(s)

09/265,913

Additional numbers attached? Yes No

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

Name: TRW Inc.

Internal Address: Law Dept.

Bldg. E2/6072

Street Address: One Space Park

City: Redondo Beach State: CA ZIP: 90278

6. Total number of applications and patents involved:

7. Total fee (37 CFR 3.41) \$ 40

- 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

Michael S. Yatsko
Signature

March 10, 1999

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

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

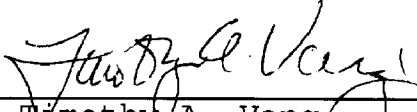
MD 3-10-99

09/265913
03/19/1999 JMW/TINS 00099150 201515
46-00-EX


ASSIGNMENT

For valuable consideration, the adequacy and receipt of which are hereby acknowledged, we Timothy A. Vang and David C. Scott respectively, of San Dimas, California and Lakewood, 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 VARIABLE ELECTRODE TRAVELING WAVE METAL-SEMICONDUCTOR-METAL WAVEGUIDE PHOTODETECTOR which has been invented by us, as described in the application for United States Patent which we executed respectively, on March 9, 1999, and March 9, 1999, 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.

3/9, 1999

Inventor: 
 Timothy A. Vang

3/9, 1999

Inventor: 
 David C. Scott

STATE OF CALIFORNIA)
) ss
COUNTY OF LOS ANGELES)

On March 9, 1999 before me, Lorna L. Schott
personally appeared Timothy A. Vang
_____ 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.

Lorna L. Schott

Notary Public

(SEAL)

STATE OF CALIFORNIA)
) ss
COUNTY OF LOS ANGELES)

On March 9, 1999 before me, Lorna L. Schott
personally appeared David C. Scott
_____ 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.

Lorna L. Schott

Notary Public

(SEAL)