

11-20-2000



10-31-00

Tab settings

To the Honorable Commissioner of Pa

101520885

attached original documents or copy thereof.

1. Name of conveying party(ies):

Dean Tran
George J. Vendura, Jr.
William L. Jones

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: July 17, 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: July 17, 2000

A. Patent Application No.(s)

09/624,815

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 90278

6. Total number of applications and patents involved:

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)

DO NOT USE THIS SPACE

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

Michael S. Yatsko
Name of Person Signing

Michael S. Yatsko
Signature

10/26/00

Date

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

PATENTS ONLY

1. Name of conveying party(ies):

Edward A. Rezek

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

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

Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ ZIP: _____

Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ ZIP: _____

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

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

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A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

ASSIGNMENT

For valuable consideration, the adequacy and receipt of which are hereby acknowledged, we Dean (NMI) Tran, George J. Vendura, Jr., William L. Jones and Edward A. Rezek respectively, of Westminster, California; Rossmoor, California; Inglewood, California; and Torrance, 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 SOLAR CELL HAVING MULTI-QUANTUM WELL LAYERS TRANSITIONING FROM SMALL TO LARGE BAND GAPS AND METHOD OF MANUFACTURE THEREFOR which has been invented by us, as described in the application for United States Patent which we executed respectively, on July 17, 2000, October 20, 2000, July 17, 2000 and July 17, 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.

17 July, 2000
 _____, 2000
17 July, 2000
17 July, 2000

Inventor: *Dean Tran*
 Dean (NMI) Tran
 Inventor: _____
 George J. Vendura, Jr.
 Inventor: *William L. Jones*
 William L. Jones
 Inventor: *Edward A. Rezek*
 Edward A. Rezek

ASSIGNMENT

For valuable consideration, the adequacy and receipt of which are hereby acknowledged, we Dean (NMI) Tran, George J. Vendura, Jr., William L. Jones and Edward A. Rezek respectively, of Westminster, California; Rossmoor, California; Inglewood, California; and Torrance, 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 SOLAR CELL HAVING MULTI-QUANTUM WELL LAYERS TRANSITIONING FROM SMALL TO LARGE BAND GAPS AND METHOD OF MANUFACTURE THEREFOR which has been invented by us, as described in the application for United States Patent which we executed respectively, on _____, _____, _____ and _____, 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: _____
Dean (NMI) Tran

October 20, 2000

Inventor: _____
George J. Vendura, Jr.
George J. Vendura, Jr.

_____, 2000

Inventor: _____
William L. Jones

_____, 2000

Inventor: _____
Edward A. Rezek

STATE OF CALIFORNIA)

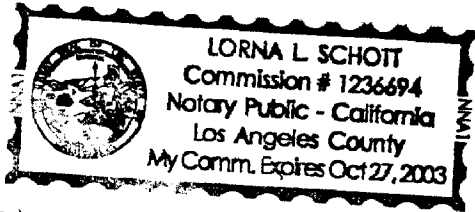
) ss

COUNTY OF LOS ANGELES)

On July 17, 2000 before me, Lorna L. Schott
personally appeared William L. Jones

~~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)

Lorna L. Schott
Notary Public

STATE OF CALIFORNIA)

) ss

COUNTY OF LOS ANGELES)

On July 17, 2000 before me, Lorna L. Schott
personally appeared Edward A. Rezek

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(SEAL)

Lorna L. Schott
Notary Public

STATE OF CALIFORNIA)
) ss
COUNTY OF LOS ANGELES)

On July 17, 2000 before me, Lorna L. Schott
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WITNESS my hand and official seal.

Lorna L. Schott
Notary Public

(SEAL)

STATE OF CALIFORNIA)
) ss
COUNTY OF LOS ANGELES)

On _____ before me, _____
personally appeared George J. Vendura, Jr.

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)