

10-30-2000

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RE

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office



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To the Honorable Commissioner of Patents and Trademarks, U.S. Patent and Trademark Office, Washington, D.C. 20531

1. Name of conveying party(ies): Patrick T. Chin, Todd K. Makishi, Thomas R. Block. Additional name(s) of conveying party(ies) attached? [] Yes [X] No

3. Nature of conveyance: [X] Assignment, [] Merger, [] Security Agreement, [] Change of Name, [] Other. Execution Date: September 21, 2000

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 [X] No

4. Application number(s) or patent number(s): 09/668104. If this document is being filed together with a new application, the execution date of the application is: September 21, 2000. A. Patent Application No.(s), B. Patent No.(s). Additional numbers attached? [] Yes [X] 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, [X] Authorized to be charged to deposit account. 8. Deposit account number: 20-1515. (Attach duplicate copy of this page if paying by deposit account)

0/27/2000 MTHAI1 00000190 201515 09668104 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 the original document. Connie M. Thousand, Signature, 09-22-00, 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

PATENT REEL: 011178 FRAME: 0903

ASSIGNMENT

For valuable consideration, the adequacy and receipt of which are hereby acknowledged, we Patrick T. Chin, Todd K. Makishi, and Thomas R. Block respectively, of Marina del Rey, California; Harbor City, California; and Los Angeles, 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 METHOD FOR CLEANING PHOSPHORUS FROM AN MBE CHAMBER which has been invented by us, as described in the application for United States Patent which we executed respectively, on September 21, 2000, September 21, 2000, and September 21, 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.

Sept. 21, 2000

Inventor: Patrick T. Chin
Patrick T. Chin

Sept. 21, 2000

Inventor: Todd K. Makishi
Todd K. Makishi

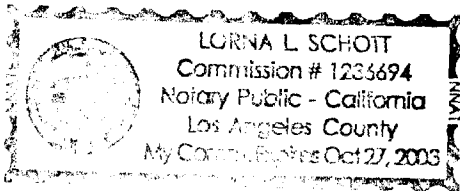
Sept. 21, 2000

Inventor: Thomas R. Block
Thomas R. Block

STATE OF CALIFORNIA)
) ss
COUNTY OF LOS ANGELES)

On September 21, 2000 before me, Lorna L. Schott
personally appeared Patrick T. Chin

~~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

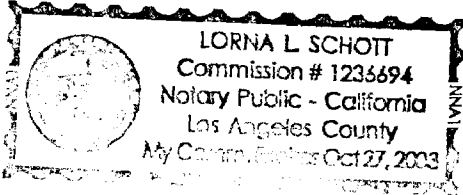
Notary Public

(SEAL)

STATE OF CALIFORNIA)
) ss
COUNTY OF LOS ANGELES)

On September 21, 2000 before me, Lorna L. Schott
personally appeared Todd K. Makishi

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Lorna L. Schott

Notary Public

(SEAL)

STATE OF CALIFORNIA

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) ss
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COUNTY OF LOS ANGELES

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