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TRW DOCKET  
NO. 35-0012

100970582

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

1. Name of conveying party(ies): George C. Hughes, Michael J. Wehner, Mark L. Hanson, D. Hobson Lane, Paul A. Lavoie, Warren H. Taylor, Bryan H. Kang, Paul (NMI) Steiner, Arnold J. Galloway, Michael S. Busby  
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.  
Bldg. E2/6072

3. Nature of conveyance:

10-26-98

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Street Address: One Space Park  
Redondo Beach CA 90278  
City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

Execution Date: 8/17/98, 8/18/98 and 10/16/98

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

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: \_\_\_\_\_

A. Patent Application No.(s)  
09/135,884, filed Aug. 18, 1998

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Patent Counsel  
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: 1

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

10/21/98  
Date

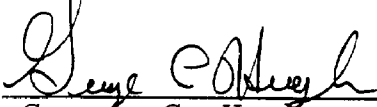
Total number of pages including cover sheet, attachments, and document: 9

ASSIGNMENT

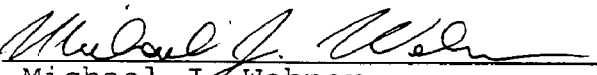
For valuable consideration, the adequacy and receipt of which are hereby acknowledged, we George C. Hughes, Michael J. Wehner, Mark L. Hanson, D. Hobson Lane, Paul A. Lavoie, Warren H. Taylor, Bryan H. Kang, Paul (NMI) Steiner, Arnold J. Galloway, and Michael (NMI) Busby, respectively, of Manhattan Beach, California; Hawthorne, California; Redondo Beach, California; Hermosa Beach, California; Manhattan Beach, California; Gardena, California; La Mirada, California; Rancho Palos Verdes, California; Los Angeles, California; and Hawthorne, 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 AND SYSTEM FOR SPACE NAVIGATION 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.

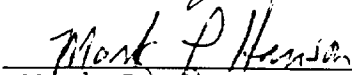
Aug 17, 1998, 1998

Inventor:   
George C. Hughes

\_\_\_\_\_, 1998

Inventor:   
Michael J. Wehner

August 17, 1998

Inventor:   
Mark L. Hanson

August 17, 1998

Inventor:   
D. Hobson Lane

August 17, 1998

Inventor: Paul A. Lavoie  
Paul A. Lavoie

August 17, 1998

Inventor: Warren H. Taylor  
Warren H. Taylor

August 17, 1998

Inventor: Bryan H. Kang  
Bryan H. Kang

AUGUST 17, 1998

Inventor: Paul (NMI) Steiner  
Paul (NMI) Steiner

AUGUST 18, 1998

Inventor: Arnold G. Galloway  
Arnold G. Galloway

October 16, 1998

Inventor: Michael (NMI) Busby  
Michael (NMI) Busby

STATE OF CALIFORNIA )  
 ) ss  
COUNTY OF LOS ANGELES )

On Aug. 17, 1998 before me, Kathleen R. Tait  
personally appeared George C. Hughes  
       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.

Kathleen R. Tait  
Notary Public

(SEAL)



STATE OF CALIFORNIA )  
 ) ss  
COUNTY OF LOS ANGELES )

On August 17, 1998 before me, Kathleen R. Tait  
personally appeared D. Hobson Lane  
\_\_\_\_\_ personally known to me -or- ~~X~~ proved to me on the basis of  
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On August 17, 1998 before me, Kathleen R. Tait  
personally appeared Warren H. Taylor  
\_\_\_\_\_ personally known to me -or- ~~X~~ proved to me on the basis of  
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COUNTY OF LOS ANGELES )

On August 17, 1998 before me, Kathleen R. Tait  
personally appeared Bryan H. Kang  
\_\_\_\_\_ personally known to me -or- ~~X~~ proved to me on the basis of  
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(SEAL)

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 ) ss  
COUNTY OF LOS ANGELES )

On August 17, 1998 before me, Kathleen R. Tait  
personally appeared Paul (NMI) Steiner  
       personally known to me -or-  proved to me on the basis of  
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Kathleen R Tait  
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(SEAL)

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 ) ss  
COUNTY OF LOS ANGELES )

On August 18, 1998 before me, Kathleen R. Tait  
personally appeared Arnold J. Galloway  
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instrument the person, or the entity upon behalf of which the person acted,  
executed the instrument.



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Kathleen R. Tait  
Notary Public

(SEAL)

STATE OF CALIFORNIA

)

) ss

COUNTY OF LOS ANGELES

)

*Kathleen R. Tait*

On Oct. 16, 1998 before me, ~~Lorna L. Schotte~~  
personally appeared Michael S. (NMI) Busby

           personally known to me -or- ~~X~~ proved to me on the basis of  
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WITNESS my hand and official seal.

*Kathleen R Tait*  
Notary Public

(SEAL)