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To the Honorable Commissioner of Patents and

101615392

and original documents or copy thereof.

1. Name of conveying party(ies):

Mark W. Johnson

Quentin P. Herr

Bruce J. Dalrymple

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

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

Name: TRW Inc.

Internal Address: Law Department, E2/6051

Street Address: 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: November 10, 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: November 13, 2000

A. Patent Application No.(s)

09/711,321

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: TRW Inc., Patent Counsel

Internal Address: Law Department, 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

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20-1515

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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

1/25/01
Date

Total number of pages including cover sheet, attachments, and document: 7

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):

Arnold H. Silver

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

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B. Patent No.(s)

Additional numbers attached? Yes No

ASSIGNMENT

For valuable consideration, the adequacy and receipt of which are hereby acknowledged, we Mark W. Johnson, Quentin P. Herr, Bruce J. Dalrymple, and Arnold H. Silver respectively, of La Canada Flintridge, California; Torrance, California; Redondo Beach, California; and Rancho Palos Verdes, 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 ACTIVE TIMING ARBITRATION IN SUPERCONDUCTOR DIGITAL CIRCUITS which has been invented by us, as described in the application for United States Patent which we executed respectively, on November 10, 2000, November 27, 2000, November 10, 2000, and December 5, 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.

November 10, 2000

Inventor:

Mark W. Johnson
Mark W. Johnson

Nov. 27, 2000

Inventor:

Quentin Herr
Quentin P. Herr

November 10, 2000

Inventor:

Bruce J. Dalrymple
Bruce J. Dalrymple

December 5, 2000

Inventor:

Arnold H. Silver
Arnold H. Silver

STATE OF CALIFORNIA)
) ss
COUNTY OF LOS ANGELES)

On November 10, 2000 before me, Lynn E. Cabiles
personally appeared Mark W. Johnson
~~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 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.



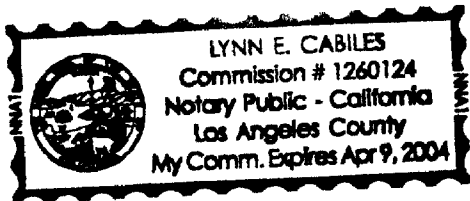
WITNESS my hand and official seal.

Lynn E. Cabiles
Notary Public

(SEAL)

STATE OF CALIFORNIA)
) ss
COUNTY OF LOS ANGELES)

On November 27, 2000 before me, Lynn E. Cabiles
personally appeared Quentin P. Herr
~~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 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.

Lynn E. Cabiles
Notary Public

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~~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.



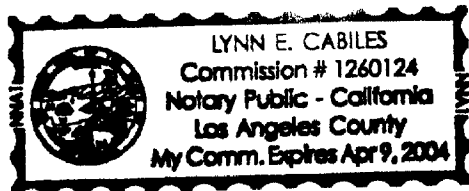
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Notary Public

(SEAL)

STATE OF CALIFORNIA)
) ss
COUNTY OF LOS ANGELES)

On December 5, 2000 before me, Lynn E. Cabiles
personally appeared Arnold H. Silver
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
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WITNESS my hand and official seal.

Lynn E. Cabiles
Notary Public

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