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To the Honorable Commissioner of Patents and Trademarks: Please record the attachment(s) of copy hereof.

101685026

1. Name of conveying party(ies):

Vincent J. McCullough
Kenneth W. Aull

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: _____

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: October 26, 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 1, 2000

A. Patent Application No.(s)

09/704,418

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

8. Deposit account number:

20-1515

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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.

Robert W. Keller
Name of Person Signing

Robert W. Keller
Signature

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Date

Total number of pages including cover sheet, attachments, and document: 5

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(Form PTO--1595--Recordation Form Cover Sheet - page 1 of 3)

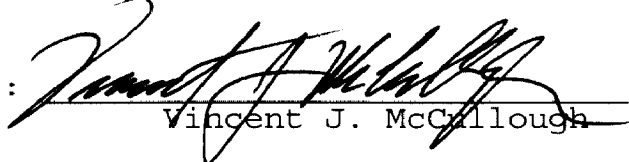
PATENT
REEL: 011698 FRAME: 0480

ASSIGNMENT

For valuable consideration, the adequacy and receipt of which are hereby acknowledged, I Vincent J. McCullough and Kenneth W. Aull of Chantilly, Virginia and Fairfax, Virginia, respectively, 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 SYSTEM AND METHOD FOR EFFICIENT AND SECURE REVOCATION OF A SIGNATURE CERTIFICATE IN A PUBLIC KEY INFRASTRUCTURE which has been invented by me, as described in the application for United States Patent which I executed respectively, on 2 NOVEMBER 2000 and OCT 26, 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., I will communicate to TRW Inc. or its representatives or nominees any facts known to me 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.

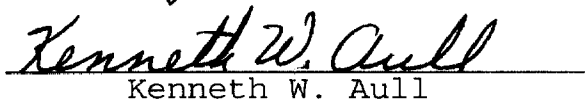
NOVEMBER 2, 2000

Inventor:


Vincent J. McCullough

OCT 26, 2000

Inventor:


Kenneth W. Aull

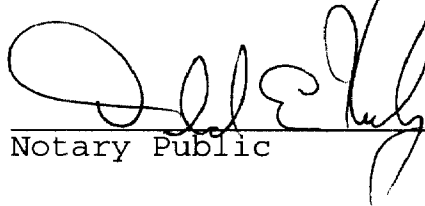
STATE OF

)
) ss
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COUNTY OF

On November 2, 2000 before me, JOHN E KEELY
personally appeared Vincent J. McCullough
_____ 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.



Notary Public

(SEAL)


STATE OF

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) ss
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COUNTY OF

On OCT 26, 2000 before me, JOHN E KEELY
personally appeared Kenneth W. Aull
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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
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