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08-20-1998

HEET

U.S. DEPARTMENT OF COMMERCE

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OMB No. 0651-0011 (exp. 4/94)

TRW DOCKET

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To the Honorable Commissioner of Patents

100800693

and original documents or copy thereof.

## 1. Name of conveying party(ies):

Richard A. Fields, David L. Rollins,  
 Stephen R. Perkins, Eric L. Upton,  
 Elizabeth T. Kunkee, Lawrence J. Lembo,  
 Juan C. Carillo, Jr., and Mark Kintis

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

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

Name: TFW Inc.

Internal Address: Law Dept.

Bldg. E2/6072

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: 08/06/98; 08/07/98; 08/06/98;  
 08/06/98; 08/10/98; 08/10/98;  
 08/06/98; 08/06/98

## 4. Application number(s) or patent number(s): 09/133037

If this document is being filed together with a new application, the execution date of the application is: 08/10/98

A. Patent Application No.(s)

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: 20-151

(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

Signature

August 11, 1998

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

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ASSIGNMENT

For valuable consideration, the adequacy and receipt of which are hereby acknowledged, we Richard A. Fields, David L. Rollins, Stephen R. Perkins, Eric L. Upton, Elizabeth T. Kunkee, Lawrence J. Lembo, Juan C. Carillo, Jr. and Mark (NMI) Kintis respectively, of Redondo Beach, California; Hawthorne, California; Redondo Beach, California; Redondo Beach, California; Manhattan Beach, California; Torrance, California; Torrance, California; and Manhattan Beach, 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 **FREQUENCY MODULATION-BASED FOLDING OPTICAL ANALOG-TO-DIGITAL CONVERTER** which has been invented by us, as described in the application for United States Patent which we executed respectively, on August 6, 1998, August 7, 1998, August 6, 1998, August 6, 1998, August 10, 1998, August 10, 1998, August 6, 1998 and August 6, 1998, 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.

6 August, 1998

Inventor: Richard A. Fields  
Richard A. Fields

7 August, 1998

Inventor: David L. Rollins  
David L. Rollins

6 August, 1998

Inventor: Stephen R. Perkins  
Stephen R. Perkins

6 Aug., 1998

Inventor: Eric L. Upton  
Eric L. Upton

Aug 10, 1998

Inventor: Elizabeth T. Kunkee  
Elizabeth T. Kunkee

10 August, 1998

Inventor: Lawrence J. Lembo  
Lawrence J. Lembo

Docket No. 12-0856

6 August, 1998

Inventor: Juan C. Carillo Jr.  
Juan C. Carillo, Jr.

6 August, 1998

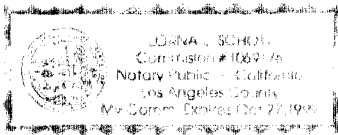
Inventor: Mark NMI Kintis  
Mark (NMI) Kintis

STATE OF CALIFORNIA

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COUNTY OF LOS ANGELES

On August 6, 1998 before me, Lorna L. Schott  
personally appeared Richard A. Fields  
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.

Lorna L. Schott  
Notary Public

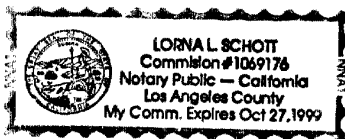
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On August 7, 1998 before me, Lorna L. Schott  
personally appeared David L. Rollins  
personally known to me -or- X proved to me on the basis of  
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instrument and acknowledged to me the he/she executed 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.



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Lorna L. Schott  
Notary Public

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PATENT

REEL: 9384 FRAME: 0640

Docket No. 12-0856

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On August 6, 1998 before me, Lorna L. Schott  
personally appeared Stephen R. Perkins  
~~— personally known to me — or —~~ X proved to me on the basis of  
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person, or the entity upon behalf of which the person acted, executed the  
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Lorna L. Schott  
Notary Public

STATE OF CALIFORNIA

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On August 6, 1998 before me, Lorna L. Schott  
personally appeared Eric L. Upton  
~~— personally known to me — or —~~ X ~~proved to me on the basis of~~  
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Lorna L. Schott  
Notary Public

Docket No. 12-0856

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COUNTY OF LOS ANGELES

On August 10, 1998 before me, Lorna L. Schott  
personally appeared Elizabeth T. Kunkee  
~~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  
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person, or the entity upon behalf of which the person acted, executed the  
instrument.



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Lorna L. Schott

Notary Public

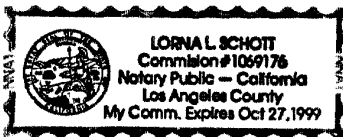
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STATE OF CALIFORNIA

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COUNTY OF LOS ANGELES

On August 10, 1998 before me, Lorna L. Schott  
personally appeared Lawrence J. Lembo  
X ~~personally known to me -or-~~ — ~~proved to me on the basis of~~  
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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.



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Lorna L. Schott

Notary Public

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PATENT

REEL: 9384 FRAME: 0642

Docket No. 12-0856

STATE OF CALIFORNIA

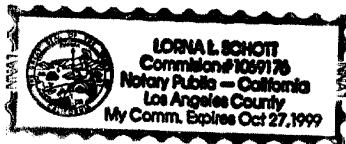
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COUNTY OF LOS ANGELES

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On August 6, 1998 before me, Lorna L. Schott  
personally appeared Juan C. Carillo, Jr.  
~~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.

Lorna L. Schott  
Notary Public

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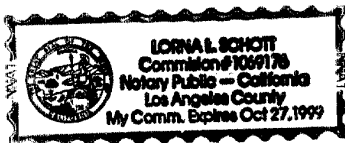
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COUNTY OF LOS ANGELES

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On August 6, 1998 before me, Lorna L. Schott  
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X personally known to me -or- ~~proved to me on the basis of~~  
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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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Lorna L. Schott  
Notary Public

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PATENT

RECORDED: 08/11/1998

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