

04-30-2002

Form PTO-1595
(Rev. 03/01)

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U.S. DEPARTMENT OF COMMERCE
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OMB No. 0651-0027 (exp. 5/31/2002)

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

1. Name of conveying party(ies):

Irwin L. Newberg
Kapriel V. Krikorian
Robert A. Rosen

04/19/02

2. Name and address of receiving party(ies)

Name: Raytheon Company

Internal Address: Intellectual Property and Licensing

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

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

04/16/2002, 04/17/2002, 04/17/2002

Execution Date: _____

Street Address: _____

141 Spring Street

City: Lexington State: MA Zip: 02421-7899

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

4. Application number(s) or patent number(s): Internal Docket No. PD-01W027

If this document is being filed together with a new application, the execution date of the application is: 04/19/2002

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:

Name: Raytheon Company

Internal Address: Leonard A. Alkov

04/29/2002 TDIAZ1 00000126 500616 10126569
01 FC:583 40.00 CH

Street Address: P.O. Box 902 (E1/E150)

City: El Segundo State: CA Zip: 90245-0902

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:

50-0616

(Attach duplicate copy of this page if paying by deposit account)

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.

Leonard A. Alkov, 30,021

Leonard A. Alkov

04/19/2002

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and documents: 4

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

PATENT
REEL: 012830 FRAME: 0643

ASSIGNMENT

WHEREAS, I, as below named joint inventor of the city and state as stated below next to my name, have invented "Repetitive Waveform Generator Recirculating Delay Line" for which application for Letters Patent of the United States has been executed by me on this day; and

WHEREAS, RAYTHEON COMPANY, a Delaware Corporation, having its principal place of business in Lexington, Massachusetts, is desirous of acquiring the entire and exclusive right, title and interest in, to and under said invention, said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world;

NOW, THEREFORE, in consideration of the obligations voluntarily assumed by me and set forth in an invention agreement between me and my employer, effective the date as stated below next to my name, and other good and valuable consideration, receipt of which is hereby acknowledged, I do hereby sell, assign and transfer to RAYTHEON COMPANY, its successors, assigns or other legal representatives, the entire and exclusive right, title and interest in and to said invention invented by me, to said application and any and all applications which are continuations, continuations-in-part, divisions or substitutes of said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world on any of said applications and to any and all reexaminations, reissues, renewals or extensions of said Letters Patent in the United States and throughout the world; authorize and request The Commissioner of Patents and Trademarks of the United States and all foreign countries to issue all such Letters Patent to said RAYTHEON COMPANY, its successors, assigns or other legal representatives; convenient that no assignment, sale, agreement, transfer or encumbrance has been, or will be, made or entered into which would conflict with this assignment, sale and transfer; and agree to communicate to RAYTHEON COMPANY, its successors, assigns or other legal representatives, upon request and at no cost or expense to me, any facts known by me respecting said invention, do all lawful acts, including the execution and delivery of all papers and proper oaths and giving of testimony that is deemed necessary or desirable by RAYTHEON COMPANY, its successors, assigns or other legal representatives with regard to said invention for protecting, obtaining, maintaining and enforcing any and all of said Letters Patent in the United States and throughout the world for said invention and for perfecting, affirming, recording and maintaining the title of RAYTHEON COMPANY, its successors, assigns or other legal representatives, and generally cooperate to the fullest extent in all matters pertaining to said invention, and any and all of said Letters Patent and the title thereto in RAYTHEON COMPANY, its successors, assigns or other legal representatives.

IN WITNESS WHEREOF, we have executed this instrument.

Full Name of Inventor	Inventor Signature	Date Signed
Irwin L. Newberg	<i>Irwin L. Newberg</i>	4/16/02
Residence (City and State)		Invention Agreement Date
702 Palisades Drive, Pacific Palisades, California 90272		October 11, 1965

STATE OF California)
)
COUNTY OF _____) SS:

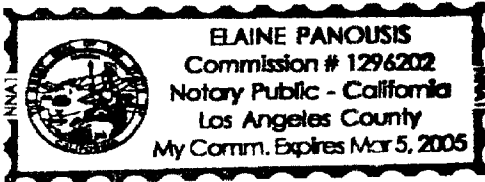
On 4-16-02 before me, Elaine Panousis, a Notary Public in and for said State,
personally appeared Irwin L. Newberg

personally known to me or _____ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public

Elaine Panousis



Full Name of Inventor	Inventor Signature	Date Signed
Kapriel V. Krikorian	<i>Kapriel V. Krikorian</i>	4/17/2002
Residence (City and State)		Invention Agreement Date
463 Park Springs Court, Oak Park, California 91377		November 19, 1973

STATE OF California)
)
COUNTY OF LOS ANGELES) SS:

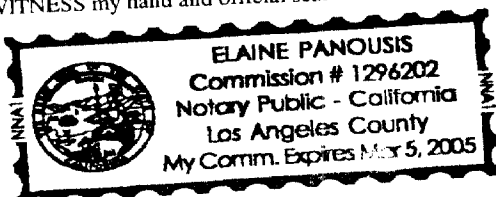
On 4-17-02 before me, Elaine Panousis, a Notary Public in and for said State,
personally appeared Kapriel V. Krikorian

personally known to me or _____ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public

Elaine Panousis



Full Name of Inventor Robert A. Rosen	Inventor Signature <i>Robert A Rosen</i>	Date Signed April 17, 2002
Residence (City and State) 1648 Meander Drive, Simi Valley, California 93065		Invention Agreement Date June 3, 1975

STATE OF California)
COUNTY OF LOS ANGELES) SS:

On 4-17-02 before me, Elaine Panousis, a Notary Public in and for said State,
personally appeared Robert A. Rosen

personally known to me or ___ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public

Elaine Panousis

