

FORM PTO-1619A

Expires 06/30/99
OMB 0651-0027

01-24-2000

U.S. Department of Commerce
Patent and Trademark Office
PATENT

101250785

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- ☐ **Resubmission (Non-Recordation)**
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Reel # Frame #
- ☐ **Corrective Document**
Reel # Frame #

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- ☒ **Assignment** ☐ **Security Agreement**
- ☐ **License** ☐ **Change of Name**
- ☐ **Merger** ☐ **Other**
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- Name**
- Address (line 1)**
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01/21/2000 DCOATES 00000054 08140770

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

PATENT**REEL: 010485 FRAME: 0687**

Correspondent Name and Address

Area Code and Telephone Number 303-333-3010

Name Robert C. Dorr, Esq.

Address (line 1) Dorr, Carson, Sloan & Birney, P.C.

Address (line 2) 3010 E. 6th Avenue

Address (line 3) Denver, CO 80206

Address (line 4)

Pages

Enter the total number of pages of the attached conveyance document
including any attachments.

14

Application Number(s) or Patent Number(s)

☒ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

08/140,770

08/764,173

08/883,653

5,472,935

5,694,134

08/483,457

08/807,334

08/883,805

5,589,845

5,721,194

08/484,168

08/864,510

08/884,362

5,656,575

If this document is being filed together with a new Patent Application, enter the date the patent application was
signed by the first named executing inventor.

Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number

only if a U.S. Application Number
has not been assigned.

PCT

PCT

PCT

PCT

PCT

PCT

Number of Properties

Enter the total number of properties involved.

28

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$ 1,120.00

Method of Payment:

Deposit Account

Enclosed ☒Deposit Account ☐

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

04-1414

Authorization to charge additional fees:

Yes

☒

No

☐

Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any
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indicated herein.

Robert C. Dorr, Esq., 27,782



December 22, 1999

Name of Person Signing

Signature

Date

FORM PTO-1619C

Expires 06/30/99
OMB 0651-0027**RECORDATION FORM COVER SHEET
CONTINUATION
PATENTS ONLY**U.S. Department of Commerce
Patent and Trademark Office
PATENT**Conveying Party(ies)**☐

Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Name (line 1)

Execution Date
Month Day Year

Name (line 2)

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Receiving Party(ies)☐

Mark if additional names of receiving parties attached

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Name (line 1)

Y Development, LLC

☐If document to be recorded
is an assignment and the
receiving party is not
domiciled in the United
States, an appointment
of a domestic representative
is attached. (Designation
must be a separate
document from
Assignment.)

Name (line 2)

a Colorado entity

Address (line 1)

1616 14th Street, Unit 5D

Address (line 2)

Address (line 3)

Denver

City

CO

State/Country

80202

Zip Code

Name (line 1)

☐If document to be recorded
is an assignment and the
receiving party is not
domiciled in the United
States, an appointment of a
domestic representative is
attached. (Designation must
be a separate document from
Assignment.)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

Zip Code

Application Number(s) or Patent Number(s)☐

Mark if additional numbers attached

*Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).***Patent Application Number(s)**

08/890,721

09/336,125

60/056,461

08/896,688

60/020,766

60/065,860

08/957,793

60/029,162

60/066,564

09/200,281

60/031,014

60/090,022

09/281,609

60/050,263

Patent Number(s)

**ACKNOWLEDGEMENT OF
ASSIGNMENT OF INVENTIONS**

WHEREAS, Spectral Solutions, Inc., a Colorado corporation, (the "Assignor"), represents and warrants that it was the owner of certain new and useful inventions set forth in Exhibit A and incorporated herein by reference.

WHEREAS, Robert M. Yandrofski, an individual, who resides at 1616 14th Street, Unit 5D, Denver, Colorado 80202, and Y Development, LLC, a Colorado entity, (the "Assignee"), has acquired the Assignor's entire right, title and interest in and to the aforesaid inventions, applications for Letters Patent, and Letters Patents in the United States, in Canada, and in any and all foreign countries;

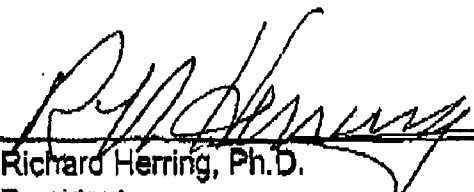
NOW, THEREFORE, for good and valuable consideration as set forth in the Consulting Agreement dated February 12, 1999, between the Assignor and Assignee, the receipt whereof is hereby expressly acknowledged, the Assignor acknowledges the sale, transfer, and set over to the Assignee, its successors, legal representatives and assigns, the entire right, title, and interest in and to the aforesaid inventions, provisional applications, regular applications, and Letters Patent for the territory of the United States of America, for Canada, and for all foreign countries, and to all Letters Patents, divisions, continuations, continuations-in-part, substitutions, reissues, re-examinations, renewals, and extensions to be obtained therefor as identified in Exhibit A (including all abandoned applications).

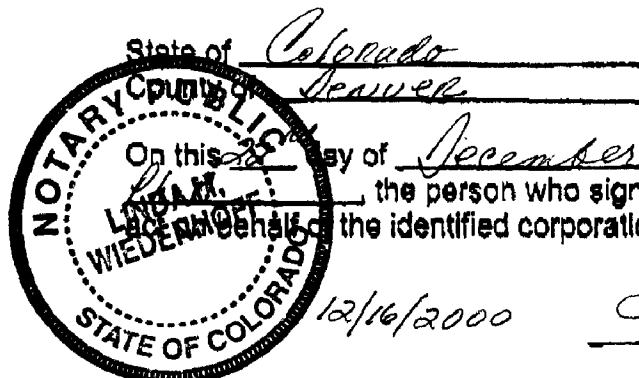
The Commissioner of Patents is hereby authorized and requested to issue and maintain the Letters Patent solely in accordance with this Assignment, to the Assignee, its successors, legal representatives and assigns, as the Assignee of the entire right, title and interest therein.

Further, Assignor agrees that Assignor will communicate to Assignee, or to its representatives, any facts known to Assignor respecting said inventions, and testify in any legal proceedings, sign all lawful papers, execute all division, continuation, continuation-in-part, substitution, reissue, re-examination, and extension applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to Assignee, make all rightful oaths, and generally do everything necessary or desirable to aid Assignee, its successors and assigns, to obtain and enforce proper protection for said inventions in the United States and in any and all foreign countries.

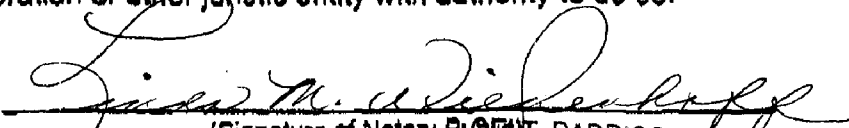
SPECTRAL SOLUTIONS, INC.

Date: 12/22/99

By: 
Richard Herring, Ph.D.
Title: President



State of Colorado
City of Denver
On this 22 day of December, 1999, before me appeared Richard Herring,
the person who signed this instrument, who acknowledged that he signed it as a free
agent on behalf of the identified corporation or other juristic entity with authority to do so.


(Signature of Notary Public)

F:\COMMON\RCD\SA\PS\Spectral assignment.doc

PADDISON & ASSOCIATES P.C.
1600 BROADWAY, SUITE 2600
DENVER CO 80202-4926

REEL: 010485 FRAME: 0690

SCT PATENT ASSET CHART

Patent No. 5,656,575 (issued 8/12/97)
3172/1 - APP # 387,594
"Method & Apparatus for Fabricating Weak
Link Junctions on Vicinally Cut Substrates"

Inventor - Mueller

Assignee - SCT

Filed 2/13/95

Reel/Frame 7364/0304

SR1

Continuation-in-Part APP# 08/864,510
3172/1-1 (4248-1-1)
"Method & Apparatus for Forming Weak Link
Junction on Vicinally Cut Substrates"

Inventor - Mueller

Status: Pending

Assignee - SCT

Filed 5/28/97

Reel/Frame 8600/0966
(Abandoned)

TD '575
due 10/28/99

SR2

LEGEND

X (over box) = Regular Application Abandoned
TD (lower right hand corner) = Terminal Disclaimer
SR (lower left hand corner) = SR reference number
** (top of box) = Assigned in Consulting Agreement

App No. 08/883,805

3172/11

"Electrically Tuneable Microwave Filters"

Inventors - Zhihang Zhang & Attila Weiser, Jr.

Status: pending

Assignee - SCT

Filed 6/27/97

Reel/Frame 8867/0857

SR21

PCT App No. US 97/11164

3172/13 PCT

"Near Resonant
Cavity Tuning
Devices"

Inventors - Mueller,
Zhang, and Koepf

Filed 6/27/97

Status: abandoned

Filed in name of SCT

SR24

Provisional App No. 60/020,766

3172/13 Prov.

"Near Resonant
Cavity Tuning
Devices"

Inventors - Mueller,
Zhang, and Koepf

Filed 6/28/96

Status: Abandoned

Assignee: SCT

Reel/Frame 8150/0074

SR22

App No. 08/883,653

3172/13

"Near Resonant
Cavity Tuning
Devices"

Inventors - Mueller,
Zhang, and Koepf

Filed 6/27/97

Status: pending

Patents Incorp.
60/020,766 Prov.

Assignee - SCT

Reel/Frame 8954/0253

SR23

App No. 08/957,793
4248/17
"Tuneable Dielectric Flip Chip Varactors"

Inventors - Koepef, Price, Kozyrev, Mueller
Filed 10/24/97
Status: pending
Koepef, Kozyrev, and Mueller assigned to SCT
Assignment Filed 8/30/99
Price hasn't assigned
No Reel/Frame # as yet

SR26

Provisional App No. 60/029,162
4248/17 Prov.
"Tuneable Dielectric Flip Chip Varactors"

Inventors - Koepef, Price, Kozyrev, Mueller
Filed 10/25/96
Status: Abandoned
Koepef, Kozyrev, and Mueller assigned to SCT
(Assignment not Recorded)
Price hasn't assigned

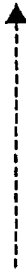
SR25

PCT App No. US 97/19334
4248/17 PCT
"Tuneable Dielectric Flip Chip Varactors"

Inventors - Koepef, Price, Kozyrev, Mueller, Galt, Rogers, Prudan, and Rivkina
Filed 10/24/97
Status: abandoned
Application filed in name of SCT

SR27

Prov. App No. 60/031,014
3172/18 Prov.
"Piezoelectric Tuned Dielectric
Resonator"
Inventors - Koepl, Heiny
Filed 11/15/96
Status: Abandoned
Assignee - SCT
Reel/Frame 8264/0031
SR28



Prov. App No. 60/065,860
3172/18 Prov. 2
"Piezoelectric Tuned Dielectric
Resonator"
Inventors - Koepl, Heiny
Filed 11/14/97
Status: Abandoned
Not Assigned
SR29

App No. 08/884,362

4248/2

"Method & Apparatus for Electrically Tuning a Resonating Device"

Inventor - Carl H. Mueller, Zhihang Zhang and Gerhard A. Koepf

Filed 6/27/97

Status: pending

Assignee - SCT

Reel/Frame 8908/0417

SR2a

App No. 08/807,334

3172/21

"Tuneable Dielectric Films Having Low Electrical Losses"

Inventors - Dimos, Schwartz, Raymond, AL-Shareef, Mueller,
and Galt

Filed: 2/28/97

Status: pending

Assignee - SCT (from Mueller & Galt only)
Dimos, Schwartz, Raymond, Al-Shereef have not assigned

Reel/Frame 8721/0227

SR30

Prov. App. No. 60/050,263 4248/34 Prov.	"FerroElectric Phase Shifters Incorporating Ferrite Materials"	Inventor - Barnes Filed 6/19/97 Status: abandoned Barnes assigned to URC (not recorded)	SR31
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Prov. App No. 60/090,022 4248/34 Prov. 2	"FerroElectric Phase Shifters Incorporating Ferrite Materials"	Inventor - Barnes Filed 6/19/98 Status: Abandoned (No Assignment Recorded)	SR32
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App No. 09/336,125 4248/34	"FerroElectric Phase Shifters Incorporating Ferrite Materials"	Inventor - Barnes Filed 6/18/99 Lists Several Pat Inc. Status: pending Assigned - UTC Assignment Reel/Frame # not Received yet Assignment Filed 7/19/99	SR33
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App No. 09/336,125 4248/34 - PCT	"FerroElectric Phase Shifters Incorporating Ferrite Materials"	Inventor - Barnes PCT Filed 6/18/99 Status: Pending Assigned - UTC	SR33a
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Prov. App No. 60/056,461 3172/35 Prov.
"Lumped Element Phase Shifter using Electronically Tuneable Dielectric Thin Films"
Inventors: Vitaly Osadchy, Oleg Soldatlenkov, Andrey Kozyrev, Koepf, and Zhang
Filed 8/21/97
Status: abandoned
Osadchy, Soldatlenkov, and Kozyrev assigned to SCT
Reel/Frame 8992/0467
SR34

**

Patent No. 5,472,935 (Issued 12/5/95)
 Serial No.: 07/983,632
 4248/4

"Tuneable Microwave Devices Incorporating High Temperature
 Superconducting & Ferroelectric Films"

Inventors - Yandrofski, Price, Barnes, Hermann, and Scott
 Yandrofski - SCT 6449/830
 Price, Barnes, Hermann, and Scott - URC 6449/839
 Filed 12/1/92

SR3

**

Div. Patent No. 5,721,194
 4248/4/1 - Ser. # 480,164
 "Tuneable Microwave
 Devices Including Fringe
 Effect Capacitor
 Incorporating Ferroelectric
 Films"

Inventors - Yandrofski,
 Price, Barnes, Hermann,
 and Scott

Assignees - SCT & URC
 (But not recorded Per S.R.)
 Status: Issued 2/24/98
 Filed 6/7/95

SR4

Div. App No. 08/484,168
 4248/4/2
 "Phased Array Antenna
 Including High Temperature
 Superconducting &
 Ferroelectric Films"

Inventors - Yandrofski,
 Price, Barnes, Hermann,
 and Scott

Filed 6/7/95
 Status: abandoned
 (No Assignments recorded
 per S.R.)

SR5

Div. App No. 08/483,457
 4248/4/3
 "Tuneable Microwave Devices Including
 Capacitively Coupled Microstrip
 Resonator Incorporating High
 Temperature Super Conducting &
 Ferroelectric Films"

Inventors - Yandrofski, Price, Barnes,
 Hermann, and Scott

Filed 6/7/95
 Assignees - SCT and URC
 (But not recorded per S.R.)
 Status: pending
 (SCT & URC)

SR6 TD '935
 TD 08/764,173 (due 12/22/99)

Div. Patent No. 5,589,845
 4248/4/4
 "Tuneable Electric Antenna
 Apparatus Including
 Ferroelectric Material"

Inventors - Yandrofski, Price,
 Barnes, Hermann, and Scott

Filed 6/7/95
 Status: Issued 12/31/96
 Assignees - SCT and URC
 (But not recorded per S.R.)
 SCT & URC filed POA's

SR7

CIP App No. 08/140,770
 4248/4/5
 "Tuneable Dielectric
 Constant Devices"

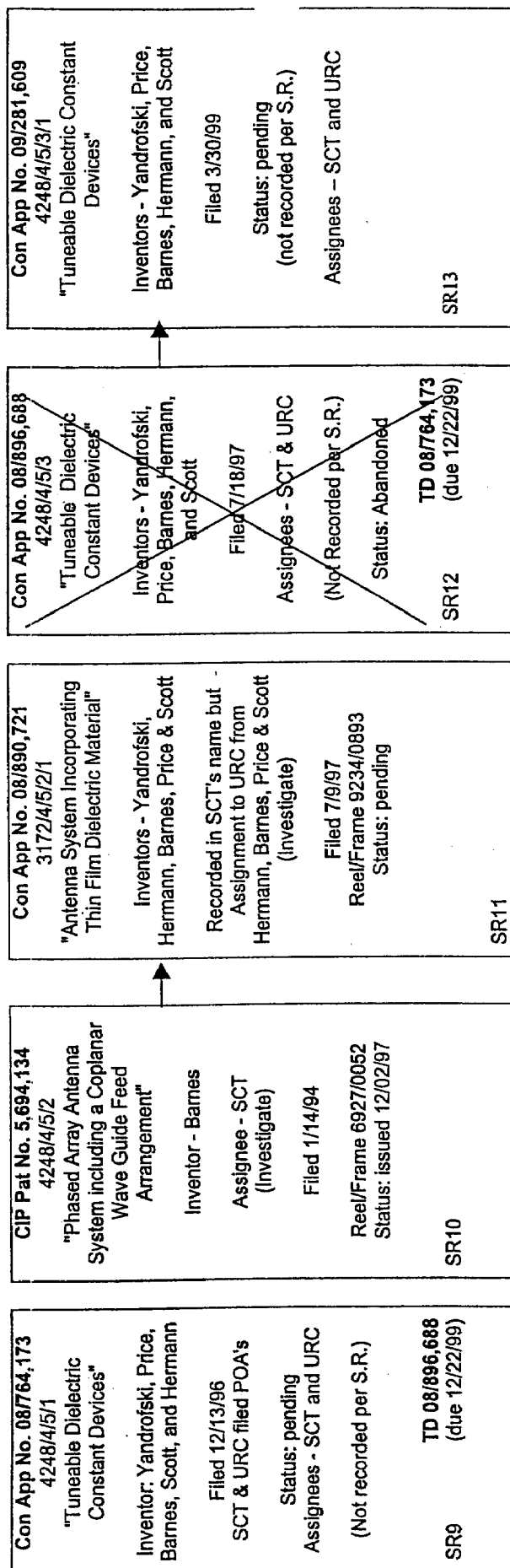
Inventors- Yandrofski and
 Barnes

Filed 10/21/93
 Status: abandoned
 Assignees - Yandrofski -
 SCT
 Barnes - URC

Reel/Frame 6751/0395
 (SCT)
 3755/001 (URC)

SR8

**



PATENT

REEL: 010485 FRAME: 0701

Foreign Filings for Patent No. 5,472,935

Patent No. 5,472,935 (issued 12/5/95) 4248/4 - Ser. # 07/983,632 "Tuneable Microwave Devices Incorporating High Temperature Superconducting & FerroElectric Films" Inventors - Yandrofski, Price, Barnes, Hermann, and Scott Filed 12/1/92 Yandrofski - SCT 6449/830 Price, Barnes, Hermann, & Scott - URC 6449/839 SR3

**

App No. 949053326 4248/4 EP EPO Europe Filed 12/1/94 Status: Pending Inventors - Yandrofski, Price, Barnes, Hermann, and Scott App. filed by SCT and URC SR14	App No. 58973/94 4248/4 Pau Australia Filed 12/1/93 Status: Pending Inventors - Yandrofski, Price, Barnes, Hermann, and Scott (No assignment per S.R.) SR15	App No. 2150690 4248/4 PCA Canada Filed 12/1/93 Status: Pending Inventors - Yandrofski, Price, Barnes, Hermann, and Scott Yandrofski -SCT Others - URC (Assignment recorded) SR16	PCT App No. US93/11780 4248/4 PCT Filed 12/1/93 Status: Abandoned Inventors - Yandrofski, Price, Barnes, Hermann, and Scott (No assignment recorded per S.R.) SR17	Finland App No. 953834 4248/4 PFI Filed 12/1/93 Status: Pending Inventors - Yandrofski, Price, Barnes, Hermann, and Scott (No assignment recorded per S.R.) SR18	Japan App No. 513506/94 4248/4 PJP Filed 12/1/93 Status: Pending Inventors - Yandrofski, Price, Barnes, Hermann, and Scott (No assignment recorded per S.R.) SR19	Korso (No App No.) 4248/4 PKR Filed 12/1/93 Status: Pending Inventors - Yandrofski, Price, Barnes, Hermann, and Scott (No assignment recorded per S.R.) SR20
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App. No. 09/200,281
4248/51

"Symmetrical
Biasing Architecture
for Tuneable
Resonators"

Inventors: Galt and
Zhang

Filed 11/24/98

Status: pending

SCT Assignment
has been submitted
for recordation - no
reel/frame # yet

SR37

PCT App No. US98/25373
4248/51 PCT

"Symmetrical Biasing Architecture
for Tuneable Resonators"

Inventors: Galt and
Zhang

Filed 11/24/98

Status: pending

Application filed in name of SCT

SR38

Prov. App No. 60/066,564
4248/51 Prov.

"Symmetrical Biasing
Architecture for Tuneable
Resonators"

Inventors: Galt and
Zhang

Filed 11/26/97

Status: Abandoned

Assignee: SCT (not recorded
per S.R.)

SR36