

07-10-2000



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REEL: 010892 FRAME: 0422

Correspondent Name and Address

Telephone Number (619)238-0999

Name (line 1) James W. McClain

Address (line 1) Brown, Martin, Haller & McClain, LLP

Address (line 2) 1660 Union Street

Address (line 3) San Diego, CA 92101

Address (line 4)

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Application Number(s) or Patent Number(s)

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

Patent Application Number(s)

Patent Number(s)

09/104,639	09/104,916	09/145,063	4,577,924	4,595,790	4,703,175
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			4,726,644	4,789,214	4,816,687
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			4,842,391	4,871,907	4,900,116
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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)

PCT

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Fee Amount for Properties Listed (37 CFR 3.41):

\$ 1600.00

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Deposit Account

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02-4070

Authorization to charge additional fees:

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No



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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. Charges to deposit account are authorized, as indicated herein.

James W. McClain

June 9, 2000

Name of Person Signing

Signature

Date

RECORDATION FORM COVER SHEET
CONTINUATION
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Name (line 2)

Execution Date
Month Day Year

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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)

Patent Number(s)

			4,901,327	4,910,539	4,943,970
			4,997,286	4,993,032	4,998,803
			5,001,937	5,002,352	5,022,042
			5,023,944	5,035,513	5,043,585
			5,043,991	5,054,875	5,056,099
			5,077,619	5,109,386	5,111,467
			5,111,519	5,119,448	5,123,070
			5,136,572	5,166,509	5,227,736
			5,381,495	5,428,314	5,491,764

**CONFIRMATION AGREEMENT OF TERMINATION OF SECURITY INTEREST IN
PATENTS, TRADEMARKS AND COPYRIGHTS BY SECURED PARTY OF RECORD**

WITNESSETH, for good and valuable consideration, receipt of which is hereby acknowledged,
UNION BANK OF CALIFORNIA, N.A. ("Secured Party") does hereby certify that the Secured Party
reconveys and no longer claims any security interest or lien in the Schedule 1 collateral mortgaged, pledged,
and granted to the Secured Party under an ASSIGNMENT FOR SECURITY OF PATENTS, TRADEMARKS
AND COPYRIGHTS ("Assignment") executed on December 30, 1998, by **TACAN CORPORATION**, a
California corporation, 2330 Faraday Ave., Carlsbad, California 92008, recorded on January 4, 1999, in the
United States Patent and Trademark Office at Reel No. 9703, Frame No. 0068 (12 pages), and acknowledged
for recordation on February 10, 1999, in the United States Copyright Office. All defined terms, including
"Schedule 1 collateral," as set forth in the Assignment shall have the same meanings herein unless otherwise
indicated. Schedule 1 includes a list of the patents, patent applications, and patent licenses mortgaged,
pledged, and granted to the Secured Party in the Assignment. Schedule 1 is attached hereto and incorporated
by reference into this Confirmation Agreement.

IN WITNESS WHEREOF, Secured Party has executed this Confirmation Agreement of Termination
of Security Interest in Patents, Trademarks and Copyrights by Secured Party of Record as of this 8th day of
July, 1999.

UNION BANK OF CALIFORNIA, N.A.
455 S. Figueroa, 4th Floor
Robert Chaulk
Los Angeles, CA 90071

By:

Bette J. McCole

Title:

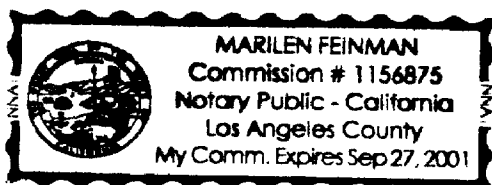
Vice President

STATE OF CALIFORNIA)
) ss.
COUNTY OF LOS ANGELES

On this 8th day of July, 1999, before me, a Notary Public, personally appeared
Bette J. McCole, 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.

Seal



Marilen Feinman
Notary Public in and for said County and State

<u>Patent No.</u>	<u>Title/Description</u>
4,577,924	Optical Recursive Filter
4,695,790	RF Frequency Spectrum Analyzer Subsystem
4,703,175	Fiber-Optic Sensor With Two Different Wavelengths of Light Traveling Together Through the Sensor Head
4,726,644	RF Frequency Multiplexed Fiber Optic Data Bus
4,789,214	Micro-Optical Building Block System and Method of Making Same
4,816,687	Method and Apparatus for Measurement of the Fluorescence Relaxation Period of a Fluorescent Substance
4,842,391	Two Spherical Lens Optical Coupler
4,871,907	Fiber Optic Linear Position Transducer
4,900,116	Multiple Pole Optical Filter
4,901,327	Transverse Injection Surface Emitting Laser
4,910,539	RF Frequency Fiber Optic Power Coupling Device
4,943,970	Surface Emitting Laser
4,997,286	Apparatus for Measuring Temperature Using a Sensor Element
4,993,032	Monolithic Temperature Stabilized Optical Tuning Circuit for Channel Separation in WDM Systems Utilizing Tunable Lasers
4,998,803	Mounting Structure for Optical and Electro-Optical Components and Method of Making Same
5,001,937	Optically Based Torsion Sensor
5,002,352	Monolithic Array of Fiber Optic Bandpass Filters
5,022,038	Wavelength Tunable Diode Laser
5,022,042	High Power Laser Array With Stable Wavelength
5,023,944	Optical Resonator Structures
5,035,513	Fluorescent Material Temperature Sensor
5,043,585	Method and Apparatus for Measurement of the Fluorescence Relaxation Period of a Fluorescent Substance
5,043,991	Device for Compensating for Thermal Instabilities of Laser Diodes
5,054,875	Fiber-Optic Equalizer
5,056,099	Rugate Filter on Diode Laser for Temperature Stabilized Emission Wavelength
5,077,619	High Linearity Optical Transmitter
5,109,386	Rugate Filter on Grating Coupled Surface Emitting Laser Array
5,111,467	Hybrid Rugate Filter Assembly for Temperature Stabilized Emission of Grating Coupled Surface Emitting Lasers
5,111,519	Method of Interference Reduction for Frequency Multiplexed Optical Fiber Communication
5,119,448	Modular Micro-Optical Systems and Method of Making Such Systems

5,123,070	Method of Monolithic Temperature-Stabilization of a Laser Diode by Evanescent Coupling to a Temperature Stable Grating
5,136,572	Optical Data Storage Using Temperature Stabilizer Lasers
5,166,509	Optical Modulator Noise Nonlinearity Reduction Circuit
5,227,736	Second-Order Predistorter
5,381,495	Optical Fiber Coupler or Attenuator and Method of Use Thereof
5,428,314	Odd/Even Order Distortion Generator & Distortion Cancellation Circuit
5,491,764	Narrowband Twisted Optical Fiber Wavelength Division Multiplexer
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594693	Fibre Optic Sensor
1,297,702	Fiber-Optic Sensor and Method of Use
1,308,586	Micro-Optical Building Block System and Method of Making Same
0387503	Use of a Fluorescent Substance (Vorrichtung zur Messung der Fluoreszenz-Abklingdauer einer fluoreszierenden Substanz)
2218512	Apparatus for Measuring Temperature Using a Sensor Element
0238856	Method and Apparatus for Measuring Fluorescent Relaxation Time of a Fluorescent Substance
P3788230.9	Apparatus for Measuring Fluorescent Relaxation Time of a Fluorescent Substance
2881682	Method and Apparatus for Measuring Fluorescent Relaxation Time of a Fluorescent Substance
0214040	Fiber Optic Sensor
3689840T2	Fiber Optic Sensor
0379941	Fluorescent Material
P3902001.0	Fluorescent Material
P3770501.6	Method and Apparatus for Measuring Fluorescent Relaxation Time of a Fluorescent Substance
59010250.8	Fluorescent Material
68811/BE/91	Method and Apparatus for Measuring Fluorescent Relaxation Time of a Fluorescent Substance

U.S. Patent Applications Pending

09/104,639	Method and Apparatus for Reducing Non-Linear Characteristics of a Signal Modulator by Cross-Correlation
09/104,916	Method and Apparatus for Reducing Non-Linear Characteristics of Signal Modulator by Coherent Data Collection
09/145,063	Method and Apparatus for Reducing Distortion Produced by a Nonlinear Device