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Form PTO-1595
March 18, 1999

03-29-1999

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

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Attorney Docket No.: Bergano 22-4

100995479

To The Honorable Commissioner Of Patents And Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Neal S. Bergano
Carl Davidson

Additional name(s) of conveying party(ies) attached?

[] yes

[X] no

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

Name: Tyco Submarine Systems Ltd.

Internal Address: _____

Street Address: 60 Columbia Turnpike

City: Morristown State: New Jersey Zip: 07960

Additional names and addresses attached? [] yes [X] no

3. Nature of Conveyance

[X] Assignment

[] Merger

[] Security Agreement [] Change of Name

[] Other _____

Execution Date: March 18, 1999

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 N/A

A. Patent Application No.(s)

09/031,018

B. Patent No.(s):

N/A

Additional numbers attached? [] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Mark Young

Internal Address Room 1A-241

Street Address: 250 Industrial Way West

City: Eatontown State: NJ ZIP: 07724

6. Total number of applications and patents involved: [1]

7. Total fee (37 C.F.R. 3.41) \$ 40.00

[] Enclosed

[X] Authorized to be charged to deposit account

8. Deposit account number: 50-0309 (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.

Brian K Dinicola, Esq. Reg. No. 36,122

Name of Person Signing

Signature

March 19, 1999

Date

Total number of pages including cover sheet, attachments and document 4

OMB No. 0651-0011 (exp. 4/84)

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Commissioner of Patents and Trademarks

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Washington, D.C. 20231

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PATENT
REEL: 9838 FRAME: 0990

ASSIGNMENT AND AGREEMENT


For value received, we, Neal S. Bergano, of Lincroft in the County of Monmouth and State of New Jersey, and Carl R. Davidson, of Manalapan in the County of Monmouth and State of New Jersey, hereby sell, assign, and transfer to Tyco Submarine Systems Ltd., a corporation of the State of Delaware, having an office at 340 Mount Kemble Avenue, Morristown, New Jersey 07960, U.S.A., and its successors, assigns, and legal representatives, the entire right, title, and interest in and to certain inventions related to **Method and Apparatus for Improving Spectral Efficiency in Wavelength Division Multiplexed Transmission Systems** described in an application for Letters Patent of the United States, executed by us of even date herewith, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign, and transfer to Tyco Submarine Systems Ltd. the entire right, title, and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize Tyco Submarine Systems Ltd. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Tyco Submarine Systems Ltd. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to Tyco Submarine Systems Ltd. in the United States and in all countries foreign to the United States, or to such nominees as Tyco Submarine Systems Ltd. may designate.

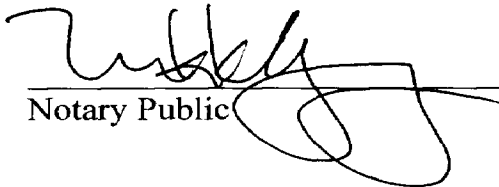
We agree that, when requested, we shall, without charge to Tyco Submarine Systems Ltd. but at its expense, sign all papers, and do all acts which may be necessary, desirable, or convenient in connection with said applications, patents, or other forms of protection.


Neal S. Bergano

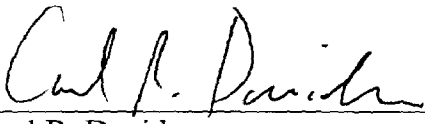
Date: Feb 13 1998

United States of America)
State of New Jersey)ss.:
County of Monmouth)

On this 13th day of February, 19 98, before me personally came Neal S. Bergano to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of same.


Notary Public

MARK K. YOUNG
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Dec. 15, 2002

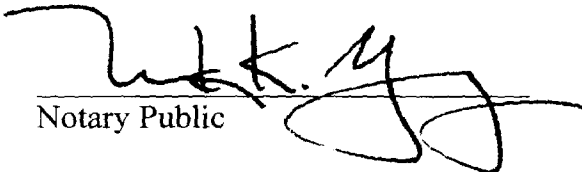


Carl R. Davidson

Date: 2/17/98

United States of America)
State of New Jersey)ss.:
County of _____)

On this 17th day of February, 1998, before me personally came
Carl R. Davidson to me known to be the individual described in and who executed the
foregoing instrument, and acknowledged execution of same.



Notary Public

MARK K. YOUNG
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Dec. 15, 2002