



To The Honorable Commissioner Of Patents A

101010611

Original documents or copy thereof.

1. Name of conveying party(ies):

**Richard Kram
Jonathan Liss
Peter Theophall**

Additional name(s) of conveying party(ies) attached?
 yes no

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

Name: Tyco Submarine Systems Ltd.

Internal Address: _____

Street Address: 60 Columbia Turnpike

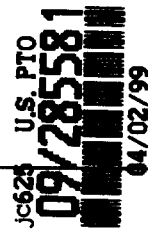
City: Morristown State: New Jersey Zip: 07960

Additional names and addresses attached? yes no

3. Nature of Conveyance

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: March 18, 1999

A. Patent Application No.(s)

N/A

B. Patent No.(s):

N/A

Additional numbers attached? Yes No

09-285581

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

Name: B. K. Dinicola

Internal Address: Rm. 1B-248

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

Authorized to be charged to deposit account

8. Deposit account number: 50-0309 (Attach duplicate copy of this page if paying by deposit account)

DO NOT USE

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

April 1, 1999

Date

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

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

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Mail documents to be recorded with required cover sheet information to:

04/13/1999 DNGUYEN 00000077 500309 09285581 Commissioner of Patents and Trademarks

01 FC:581

40.00 CH

Box Assignments
Washington, D.C. 20231

ASSIGNMENT AND AGREEMENT

For value received, we, Richard Kram, of Tinton Falls, in the County of Monmouth, and the State of New Jersey, Jonathan Liss, of Marlboro in the County of Monmouth, and the State of New Jersey, Peter Theophall, of Eatontown, in the County of Monmouth, and the 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 60 Columbia Turnpike, Morristown, New Jersey 07960, U.S.A., and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **METHOD AND APPARATUS FOR AUTOMATICALLY IDENTIFYING SYSTEM FAULTS IN AN OPTICAL COMMUNICATIONS SYSTEM FROM REPEATER LOOP GAIN SIGNATURES**, as described in an application for Letters Patent of the United States, executed by me 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.

Date: 3/31/99

Richard Kram
Richard Kram

United States of America)

State of New Jersey) ss.: 155-48-4053

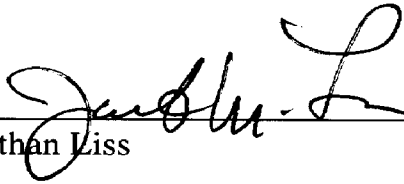
County of Monmouth)

On this 31st day of March, 1999, before me personally came Richard Kram, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Brian D. [Signature]
Notary Public
An Attorney in the State of New Jersey

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.

Date: 3/31/99



Jonathan Liss

United States of America)

State of New Jersey) ss.: 081-46-3219

County of Monmouth)

On this 31st day of March, 1999, before me personally came Jonathan Liss, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.


Notary Public
An Attorney in the State of New Jersey

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.

Date: 3/31/99

Peter Theophall
Peter Theophall

United States of America)

State of New Jersey) ss.: 107-34-6926

County of New Jersey)

On this 31st day of March, 1999, before me personally came Peter Theophall, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Brian D.

Notary Public

an attorney in the State of New Jersey