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FORM PTO 1595

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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)

COLM V. CRYAN

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

2. Name and address of receiving party(ies)

Name: THOMAS & BETTS INTERNATIONAL, INC.

Street Address: 250 Lillard Drive

City: Sparks State: Nevada Zip 89431

Country: USA

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

3. Nature of conveyance:

[X] Assignment [ ] Merger

[ ] Security Agreement [ ] Change of  
Name

[ ] Other

Execution Date: 10/9/99

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: \_\_\_\_\_.

A. Patent Application No. 09/404,083

B. Patent No.(s)

Additional numbers attached? [ ] Yes [X] No

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

Weingarten, Schurgin, Gagnebin & Hayes LLP  
Ten Post Office Square  
Boston, Massachusetts 02109

6. Total number of applications and patents

Involved [1]

7. Total fee (37 CFR 3.41)....\$40.00

[X] Enclosed

[ ] Authorized to be charged to 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.

Attorney name: Beverly E. Hjorth

Registration No. 32,033

Signature: Beverly E. Hjorth

Date: 10/25/99

Total number of pages including cover sheet, attachments, and document: [3]

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Mail documents to be recorded with required cover sheet information to:  
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**PATENT**  
**REEL: 010345 FRAME: 0727**

**A S S I G N M E N T**

In consideration of One Dollar and other good and valuable consideration, the receipt of which is hereby acknowledged, I, Colm V. Cryan, residing at 276 Massachusetts Avenue, Apartment 102, Arlington, Massachusetts 02476, hereby sell and assign to THOMAS & BETTS INTERNATIONAL, INC., a Delaware corporation having a principal place of business at 250 Lillard Drive, Sparks, Nevada 89431, its successors and assigns, the entire right, title and interest, including the right to claim priority under the International Convention, throughout the United States, its territories and all foreign countries, in and to my invention in

Optical Fiber Mach-Zehnder Interferometer  
Fabricated With Asymmetric Couplers

and the application for United States Letters Patent therefor filed on September 23, 1999, Application No. 09/404,083, and such patents as may issue thereon, and all divisions, reissues and continuations and continuations-in-part thereof.

And I hereby covenant that I have full right to make such assignment, and agree for myself and my executors and administrators that I will, at the expense of said THOMAS & BETTS INTERNATIONAL, INC., execute all applications for patents in foreign countries, execute all divisional, continuing, reissue and re-examination applications, make all rightful oaths, sign all lawful papers, testify in any proceeding in which said invention or any application or patent directed thereto may be involved, and generally do everything possible to aid said THOMAS & BETTS INTERNATIONAL, INC., its successors and assigns, to obtain and enforce proper patent protection for said invention in the United States, its territories and all foreign countries.

And I hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent on said invention or resulting therefrom to THOMAS & BETTS INTERNATIONAL, INC., its successors and assigns.

ASSIGNMENT

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IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal.

Colm V. Cryan  
Colm V. Cryan

Date: 10-9-99

Commonwealth of Massachusetts )  
County of Middlesex ) ss.  
)

Subscribed and sworn to before me by the above-named Colm V. Cryan this \_\_\_\_\_ day of \_\_\_\_\_, 1999.

\_\_\_\_\_  
Notary Public

My Commission Expires:  
\_\_\_\_\_

(Seal)

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ASSIGNMENT 12/2