

U.S.

07-22-1999

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

*10510 U.S. P.T.O.*  
*09/354299*  
*07/15/99*

Name of conveying party(ies):  
ROBERT SPENCER SYMONS

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

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

(2a.)  
Name: LITTON SYSTEMS, INC.  
Address: 21240 Burbank Boulevard  
Woodland Hills, CA 91367-6675

3. Name of Conveyance:

Assignment       Merger  
 Security Agreement       Change of Name  
 Other \_\_\_\_\_

Execution Date July 13, 1999

(2b.)  
Name \_\_\_\_\_  
Address: \_\_\_\_\_

Additional name(s) & address(es) attached?  yes  no

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: July 13, 1999

A. Patent Application No.(s) \_\_\_\_\_      B. Patent No.(s) \_\_\_\_\_

Additional numbers attached  yes       no

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

Name: Brian M. Berliner  
Internal Address: O'MELVENY & MYERS LLP

Street Address: 400 So. Hope Street  
City: Los Angeles      State: CA      ZIP: 90071-2899

6. Total number of applications and patents involved: one

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

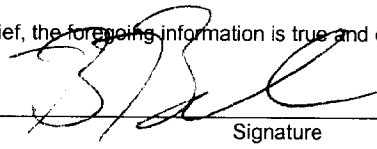
Enclosed  
 Authorized to be charged to deposit account

8. Deposit account number: 50-0639

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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 M. Berliner            July 15, 1999  
Name of Person Signing      Signature      Date

(07/22/1999 DNGUYEN 00000107 09354299)      Total number of pages comprising cover sheet, attachments and document: 3

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Mail documents to be recorded with required cover sheet information to:  
**Assistant Commissioner for Patents**  
**Box Assignments**  
**Washington, D.C. 20231**

## ASSIGNMENT

WHEREAS, **ROBERT SPENCER SYMONS**, residing at 290 Surrey Place, Los Altos, CA 94022, has made certain new and useful inventions in **THERMIONIC ELECTRON EMITTER BASED UPON THE TRIPLE-JUNCTION EFFECT**, and has disclosed the same in an application for Letters Patent of the United States therefor, said application having been executed by me as of the date set forth below; and

WHEREAS, **LITTON SYSTEMS, INC.**, a corporation organized and existing under the laws of the State of Delaware, having a place of business at 21240 Burbank Boulevard, Woodland Hills, California 91367-6675 (hereafter called the "Assignee"), is desirous of acquiring the entire interest in all inventions disclosed in said application;

NOW, THEREFORE, in consideration of the sum of one dollar (\$1.00) and other good and valuable considerations to me paid by said Assignee, the receipt and sufficiency whereof is hereby acknowledged, I do hereby sell, assign, and transfer unto said Assignee, its successors and assigns, the entire right, title and interest throughout the world in and to all said inventions disclosed in said application; and in and to said application, including all priority rights for other countries arising from said application; and in and to all substitutions, divisions, and con-tinuations thereof; and in and to all Letters Patent, United States and foreign, that may be granted for said inventions; and in and to all extensions, renewals, and reissues thereof.

And I do hereby authorize and request the Commissioner of Patents of the United States and the duly constituted authorities of foreign countries to issue any Letters Patent which may be granted on said inventions, on any applications related thereto, and on any substitute, continuing, divisional, or reissue applications, or any of them, to said Assignee, its successors and assigns, as assignee of the entire right, title and interest therein and thereto.

And for the consideration aforesaid, I do hereby, for me and for my legal representatives, further covenant and agree with said Assignee, its successors and assigns, that I have full and unencumbered title to the inventions and application above described and hereby assigned, which title I warrant unto said Assignee, its successors and assigns; that I have granted to others no license to make, use, or sell said inventions; and that I will not execute any instrument in conflict herewith.

And for the consideration aforesaid, I do hereby, for me and for my legal representatives, further covenant and agree with said Assignee, its successors and assigns, that upon request I will execute substitute, continuing, divisional, or reissue applications, amended specifications, or rightful oaths; communicate to said Assignee, its successors and assigns, any facts known to me relating to said inventions or the history thereof; execute preliminary statements; testify in any interference or other legal proceedings involving said inventions; execute and deliver any application papers,

