
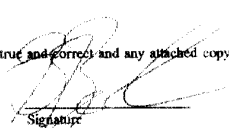


U.S. PATENT AND TRADEMARK OFFICE

EXPRESS MAIL: EM099024699US

Docket: 29746.134

Form PTO-1595 1-31-97 <i>MR</i> <i>7-27-98</i>		08-03-1998		U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	
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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): Mark Frederick Kirshner Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no			2. Name and address of receiving party(ies): Name: <u>Litton Systems, Inc.</u> Internal Address: Street Address: <u>21240 Burbank Blvd.</u> City <u>Woodland Hills</u> State <u>CA</u> ZIP <u>91367-6675</u> Additional name(s) & address(es) attached? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no		
3. Name of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date: <u>July 24, 1998</u>					
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: <u>July 24, 1998</u> A. Patent Application No.(s) _____ B. Patent No.(s) _____ Additional numbers attached? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no					
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Brian M. Berliner</u> Internal Address: <u>GRAHAM & JAMES LLP</u> Street Address: <u>801 S. Figueroa St., 14th Fl.</u> City: <u>Los Angeles</u> State: <u>CA</u> ZIP: <u>90017-5554</u>			6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 3.41):.....\$ <u>40.00</u> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: (Attach duplicate copy of this page if paying by deposit account)		
DO NOT USE THIS SPACE					
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. <u>BRIAN M. BERLINER</u>  <u>July 27, 1998</u> Name of Person Signing Signature Date Total number of pages comprising cover sheet, attachments and document: <u>3</u>					
OMB No. 0651-0011 (exp. 4/94)					
Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks Box Assignments Washington, D.C. 20231					
08/08/1998 SSMITH 00000010 09123378 01 F 581 40.00 0P					

PATENT
REEL: 9347 FRAME: 0245

ASSIGNMENT

WHEREAS, **MARK FREDERICK KIRSHNER**, residing at 747 Upland Road, Redwood City, CA 94062, has made certain new and useful inventions in **WAVEGUIDE SERIES RESONANT CAVITY FOR ENHANCING EFFICIENCY AND BANDWIDTH IN A KLYSTRON**, 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 continuations 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, assignments, or other instruments, and do all other acts which, in the opinion of counsel for said Assignee, may be necessary or convenient to secure the grant of Letters Patent to said Assignee, its successors and assigns, or its nominees, in the United States and in all other countries where said Assignee may desire to have the said inventions, or any of them, patented, with specifications and claims in such form as shall be approved by counsel for said Assignee, and to vest and confirm and complete legal and equitable title to all such inventions, applications, and Letters Patent, and to enable it to record said title, without further consideration than now paid but at the expense of said Assignee, its successors or assigns.

SIGNED this 24 day of July, 1998.

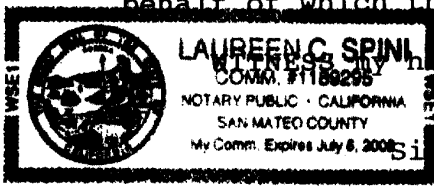
Mark Frederick Kirshner
Mark Frederick Kirshner

UNITED STATES OF AMERICA

STATE OF California)
COUNTY OF San Mateo) ss:

On July 24, 1998 before me,

Laureen C. Spini personally appeared **MARK FREDERICK KIRSHNER**, personally known to me, or proved to me on the basis of satisfactory evidence, to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.



hand and official seal.

Signature: Laureen C. Spini

[Seal]