FORM PTO-1595 (Rev. 6-93)

OMB No. 0651-0011 (exp. 4/94) Docket No. <u>TRAM.020PA</u> ET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

102280251

To the Comm	nissioner of Patents and Trademark of conveying party(ies):	ks: Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies):	2
	w HORCH ROBINS 11-6-	T-RAM, Inc. 100 Headquarters Drive San Jose, CA 95134-1370	36 U.S. 1
3. Nature As	e(s) of conveying party(ies) attached? Yes of conveyance: signment Merger curity Agreement Change	No Additional name(s) & address(es) attached? ☐ Yes No No Name	01F
Execution l	Dates: November 1, 2002; Novem	ber 1, 2002.	
4. Applica	ntion number(s) or patent number(s	s):	
If this d	locument is being filed together wi	th a new application, the filing date of the application is: November 6, 2002	<u>)</u>
A. Patent A	Application No.(s)	B. Patent No.(s)	
	nd address of party to whom correshould be mailed:	Additional numbers attached? Yes No	ved: 1
Name: Address:	Robert J. Crawford CRAWFORD PLLC 1270 Northland Drive Suite 390 St. Paul, MN 55120	7. Total fee (37 CFR 3.41): \$40 Authorization is given to charge our I Number: 50-0996 (TRAM.020PA) in the amount	Deposit According \$40.00.
		DO NOT USE THIS SPACE	
9. Stateme	ent and signature:		
	document.	he foregoing information is true and correct and any attached copy is a true of	
Name of Pe	erson Signing	Signature Da Total number of pages (double-sided) including cover sheet, attachments	
		Do not detach this portion	
Naud dans	d to be accounted with magnification of covering	chart information to	
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documen Batent an	t and gathering the data needed, and comp d Trademark Office, Office of information k Reduction Project (0651-0011), Washin	is estimated to average about 30 minutes per document to be recorded, including time for reviewing and reviewing the sample cover sheet. Send comments regarding this burden estimate to systems, PK2-1000C, Washington, D.C. 20231, and to the Office of Management and Budge	to the U.S.
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PATENT REEL: 013473 FRAME: 0191

ASSIGNMENT

WHEREAS, I/we, Andrew Horch, residing at 1180 Reed Ave., Apt. 42, Sunnyvale, CA 94086; and Scott Robins, residing at 6678 Charter Oak Pl., San Jose, CA 95120 made certain new and useful inventions and improvements for which I/we herewith file an application for letters Patent of the United States, which is entitled THYRISTOR-BASED DEVICE HAVING A REDUCED-RESISTANCE CONTACT TO A BURIED EMITTER REGION. Attorney Docket No. TRAM.020PA.

AND WHEREAS, T-RAM, Inc., a corporation organized and existing under and by virtue of the laws of the State of California, and now having an office and place of business at 2125 Zanker Road, San Jose, California 95131 (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

NOW THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar and other good and valuable considerations, the receipt and sufficiency whereof is hereby acknowledged, I/we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and I/ we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

AND, for the consideration aforesaid, I/we do hereby agree that I/we and my/our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to me/us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the improvements, inventions,

PATENT REEL: 013473 FRAME: 0192 applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore I/we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me/us and that full right to convey the same as herein expressed is possessed by me/us.

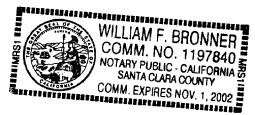
IN TESTIMONY WHEREOF,	IN TESTIMONY WHEREOF, I have hereunto set my hand this day of						
<i>№.</i> , 2002.							
	and	Home					
•	Andrew Horch						
STATE OF CAUFORNIA)							
COUNTY OF SANTA CLARA) ss.							

On this _______ day of NOVEMBER, 2002, before me personally appeared Andrew Horch, known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.

KNUWN TO ME ON THE BASIS OF SATISFACTORY EVIDENCE ONLY.

[SEAL]

Notary Public WILLIAM F. BROWNER COMMEXP NOV1, 2002



Naunber	IN TESTIMONY WHEREOF, I have hereunto set my hand this day of, 2002.				
		Soft Telli			
		Scott Robins			
STATE OF	CAUFORNIA	.)			
	(A 5-A A A A A A A) ss.			

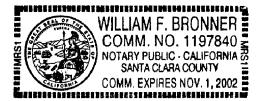
COUNTY OF SANTA CLARA)

On this _____ day of NOVEMBER, 2002, before me personally appeared Scott Robins known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.

KNUWN TO ME ON THE BASIS OF SATISFACTORY ENDENCE. ONLY

[SEAL]

William F. Dinner Notary Public WILLIAM F. BRENNER COMM EXP NOV1, 2002



RECORDED: 11/06/2002