11/906619 10/03/2007

10-16-2007 Form PTO-1595 U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office (Rev. 10/02) OMB No. 0651-0027 (exp. 6/30/2005) 103453179 (0.8.0 I original documents or copy thereof. To the Honorable Commissioner of 1. Name of conveying party(ies): 2. Name and address of receiving party(ies) Name: T-RAM, Inc. Andrew E. Horch; Fred Hause Internal Address: _____ Additional name(s) of conveying party(ies) attached? Yes \(\sqrt{No} \) 3. Nature of conveyance: Merger ✓ Assignment Street Address: _100 Headquarters Drive Security Agreement Change of Name Other City: San Jose State: CA Zip: 95134 6/7/2003; 5/27/2003 Execution Date: Additional name(s) & address(es) attached? Yes V 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: 677/03; 5/27/03 A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? Yes No 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: 1 concerning document should be mailed: 7. Total fee (37 CFR 3.41).....\$ 40.00 Name: H. C. Chan T-RAM Semiconductor Enclosed Internal Address: Authorized to be charged to deposit account 8. Deposit account number: Street Address:____620 N. McCarthy Blvd. 50-2538 ____State:_CA_Zip:_95035-5124 City: Milpitas DO NOT USE THIS SPACE 9. Signature. H. C. Chan Name of Person Signing Total number of pages including cover sheet, attachments, and documents:

U.S. PTO

10/15/2007 DBYRNE

01 FC:8021

00000059 502538

40.00 DA

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

11906619 Commissioner of Detects 2 Trades

Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

PATENT

REEL: 019972 FRAME: 0913

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Andrew E. Horch Fred Hause

Serial No.: Unknown

Filed: Concurrently Herewith

Title: THYRISTOR SEMICONDUCTOR DEVICE

AND METHOD OF MANUFACTURE

Group Art Unit: Unknown

Examiner: Unknown

Atty Docket: 2000.006.00/US

<u>ASSIGNMENT</u>

Assignor: Address:

Andrew E. Horch 1180 Reed Ave. #42 Sunnyvale, CA 94086

Assignor:

Fred Hause

Address:

4702 Circle Oak Cove

Austin, TX 79749

Assignee:

T-RAM, Inc.

Business Address:

100 Headquarters Drive

San Jose, CA 95134-1370

Incorporated in:

California

FOR GOOD AND VALUABLE CONSIDERATION, the receipt of which is hereby acknowledged, the above-named Assignor(s) hereby

SELLS, ASSIGNS AND TRANSFERS TO THE ABOVE NAMED ASSIGNEE, the entire right, title and interest in and to the above-identified invention, patent application and patent rights throughout the world, including foreign patent priority rights; said invention including improvements which are disclosed in the application; the application and letters patent in this or any foreign country, and all divisions, continuations, reissues and extensions thereof which have been or shall be filed on any of such improvements, to be held and enjoyed by Assignee, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted in this or any foreign country, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that Assignor has full right to provide for the present assignment and that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others; and

COVENANT that, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, including to communicate to

PATENT

REEL: 019972 FRAME: 0914

Assignee, or its successors and assigns, any facts known to Assignor respecting the improvements and the history thereof, testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; and generally do everything possible which the Assignee, its successors and assigns shall consider desirable to obtain, maintain and enforce proper patent protection for such improvements and for vesting title to such improvements to the Assignee in this or any foreign country;

GRANTS, in the event that the patent application filing date or serial number is not known at the time this document is executed, permission to the attorneys of record to fill in filing date(s) and/or serial number(s) of patent application(s) that may be associated with the improvements, and to record this assignment after such information is added;

TO BE BINDING on the heirs, assigns, representatives and successors of the assignor and extend to the successors, assigns and nominees of the Assignee.

Executed this $\overline{\mathcal{L}}$ day of $\overline{\mathbf{June}}$ 2003.

Andrew E. Horci

Assignor

STATE OF CALIFORNIA

) ss.

County of Santa Clara

Before me this 7th day of June 2003, personally appeared the abovenamed individual, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that they executed the same of their own free will for the purpose therein expressed.

[SEAL]

NGER LENA PARKET

Notary Public for My commission expires: January 23,8004

PATENT

REEL: 019972 FRAME: 0915

Executed this $\frac{27}{2}$ day of May 2003.

Fred Hause Assignor

STATE OF Texas

) ss.

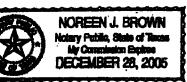
County of Travis

Before me this 27 day of May 2003, personally appeared the above-named individual, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that they executed the same of their own free will for the purpose therein expressed.

[SEAL]

Notary Public for

My commission expires: 12/28/



PATENT

REEL: 019972 FRAME: 0916

RECORDED: 10/03/2007