# PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

# **CONVEYING PARTY DATA**

Name	Execution Date
Shan Sun	08/07/2012
Thomas E. Davenport	08/04/2012
John Cronin	08/13/2012

#### **RECEIVING PARTY DATA**

Name:	Ramtron International Corporation	
Street Address:	1850 Ramtron Drive	
City:	Colorado Springs	
State/Country:	COLORADO	
Postal Code:	80921	

#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13569785

# **CORRESPONDENCE DATA**

Fax Number: 7194485922 Phone: 719-448-5947

Email: patentcoloradospring@hoganlovells.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: Hogan Lovells US LLP

Address Line 1: Two North Cascade Avenue, Suite 1300
Address Line 4: Colorado Springs, COLORADO 80903

ATTORNEY DOCKET NUMBER:	RAM 628
NAME OF SUBMITTER:	Peter J. Meza

**Total Attachments: 7** source=DOC019#page1.tif

PATENT REEL: 028948 FRAME: 0202

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FORM P		RM COVER SHEET	U.S. Department of Commerce	
(Rev. 03-09) OMB No. 0	PATENTS O	NLY	U.S. Patent and Trademark Office	
	To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.			
Additiona 3.	Name of conveying party(ies)/Execution Date(s):  Shan Sun - Execution Date: 08/07/2012 Thomas E. Davenport - Execution Date: 08/04/2012 John Cronin - Execution Date: 08/13/2012  al name(s) of conveying party(ies) attached? Yes No  Nature of conveyance Assignment Merger Security Agreement Change of Name Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License Other	2. Name and address of receiving party( Ramtron International Corporation 1850 Ramtron Drive Colorado Springs, CO 80921 Additional name(s) & address(es) attached?  Ye		
4.	A. Patent Application No.(s) 13/569,785 Attorney Docket No.: RAM 628	This document is being filed together with a  B. Patent No.(s)  tached?  Yes  No	new application.	
5.	Name and Address to whom correspondence concerning document should be mailed:  Name: William J. Kubida Internal Address: Hogan Lovells US LLP  Two North Cascade Avenue, Suite 1300 Street Address: same as above City: Colorado Springs State: CO Zip: 80903 Phone Number: 719-448-5909 Fax Number: 719-448-5922 Email Address: patentcoloradospring@hoganlovells.com	6. Total number of applications and 7. Total fee (37 CFR 1.21(h) & 3.4  Authorized to be charged to Enclosed None required (government title)  8. Payment Information Deposit account number 50-1 Authorized User Name	deposit account interest not affecting	
9.	Signature: Signature	9/12/2012 pate		

Total number of pages including cover sheet, attachments and document: \_7\_\_

Peter J. Meza
Name of Person signing

PATENT EFS-Web Attorney Docket No. RAM 628 Client/Matter No. 80412.0209

### ASSIGNMENT

WHEREAS, we, Shan Sun, having a residence address of 18595 Lake Drive Monument, CO 80132, Thomas E. Davenport, having a residence address of 3287 Quitman Street, Denver, CO 80212, and John Cronin, having a residence address of 11 Marion Way, Jericho, VT 05465, have made a certain new and useful invention relating to a METHOD FOR FABRICATING A DAMASCENE SELF-ALIGNED FERROELECTRIC RANDOM ACCESS MEMORY (F-RAM) HAVING A FERROELECTRIC CAPACITOR ALIGNED WITH A THREE DIMENSIONAL TRANSISTOR STRUCTURE, for which we are making or we have made application for Letters Patent of the United States, said application being identified by Docket No. RAM 628 and Client/Matter No. 80412.0209, in the law firm of HOGAN LOVELLS US LLP, 2 North Cascade Avenue, Suite 1300, Colorado Springs, Colorado 80903, and which was executed on Parallel 4, 2012, assigned serial no. 13 169, 185 and

WHEREAS, we now own the entire right, title and interest therein; and WHEREAS, Ramtron International Corporation, hereinafter ASSIGNEE, a Delaware corporation, whose mailing address is 1850 Ramtron Drive, Colorado Springs, CO 80921, is desirous of acquiring the entire interest in and to said invention, said application, and the Letters Patent to be obtained therefor;

NOW THEREFORE, upon consideration of our employment and other good and valuable consideration, the adequacy of which is hereby acknowledged, we do hereby sell and assign unto ASSIGNEE, and ASSIGNEE's legal representatives, successors, and assigns, the entire right, title, and interest in and to said invention, said application, and the Letters Patent, both of the United States and of other countries, that may or shall issue thereon; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, consistent with the terms of this Assignment.

UPON SAID CONSIDERATION, we do hereby covenant and agree with ASSIGNEE that we will not execute any writing or do any act whatsoever conflicting with this assignment, and that we will, at any time upon request, without further or additional consideration, but at the expense of ASSIGNEE, execute such additional assignments and other writings and do such additional acts as ASSIGNEE may

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deem necessary or desirable to perfect the ASSIGNEE's enjoyment of this grant, and render all necessary assistance in applying for and obtaining original, continuation, continuation in part, divisional, reexamined, renewal, reissued or extended Letters Patent of the United States, or of other countries, or inventor's certificates, on said invention, and in enforcing any rights or causes in action accruing as a result of such applications, certificates, or patents, by giving testimony in any proceedings or transactions involving such applications, certificates, or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of both parties.

The undersigned inventors hereby grant the patent practitioners associated with Customer No. 25235 the power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, we have hereunto set our hands and affixed our seals on the date hereinafter set forth.

Date: 8/	7/2012	Shan :	Sh Sun	<u>_</u>		
STATE OF	COLORADO	)				
COUNTYO	F ELPASO	)	SS.			
be the same acknowledge	On this _7_ dad for said county, person whose nared that he signed, ry act for the uses  My commission of Witness my hand	appeared me is subs sealed, a and purp expires	Shan Sun, scribed to the nd delivered coses therein My Commission 04/27/2013	who is persone foregoing the same n set forth.	sonally known g instrument, instrument as	to me to and
(SEAL)			Notary Pub	lic		

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Date: 4A462012 STATE OF Colorado	Thomas E. Davenport
STATE OF Colorado	
COUNTY OF Jefferson	<b>88.</b>
instrument, and acknowledged th	eared Thomas E. Davenport, who is personally on whose name is subscribed to the foregoing at he signed, sealed, and delivered the same ry act for the uses and purposes therein set forth.
Votage Withess my hand an	res $3-5-2016$ .  d official seal.
(SEAS) OF COMMISSION EXPIRES 3-5-2016	Linda Momu Notary Public
Date:	ohn Cronin
STATE OF VERMONT )	88.
COUNTY OF	
public in and for said county, appe to be the same person whose name	20, before me, a notary eared John Cronin, who is personally known to me is subscribed to the foregoing instrument, and ed, and delivered the same instrument as a free purposes therein set forth.
My commission expir	es
Witness my hand and	d official seal.
(SEAL)	otary Public

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## ASSIGNMENT

WHEREAS, we, Shan Sun, having a residence address of 18595 Lake Drive Monument, CO 80132, Thomas E. Davenport, having a residence address of 3287 Quitman Street, Denver, CO 80212, and John Cronin, having a residence address of 11 Marion Way, Jericho, VT 05465, have made a certain new and useful invention relating to a METHOD FOR FABRICATING A DAMASCENE SELF-ALIGNED FERROEELCTRIC RANDOM ACCESS MEMORY (F-RAM) HAVING A FERROELECTRIC CAPACITOR ALIGNED WITH A THREE DIMENSIONAL TRANSISTOR STRUCTURE, for which we are making or we have made application for Letters Patent of the United States, said application being identified by Docket No. RAM 628 and Client/Matter No. 80412.0209, in the law firm of HOGAN LOVELLS US LLP, 2 North Cascade Avenue, Suite 1300, Colorado Springs, Colorado 80903, and which was filed on August 8, 2012, assigned serial no.13/569,785 and

WHEREAS, we now own the entire right, title and interest therein; and WHEREAS, Ramtron International Corporation, hereinafter ASSIGNEE, a Delaware corporation, whose mailing address is 1850 Ramtron Drive, Colorado Springs, CO 80921, is desirous of acquiring the entire interest in and to said invention, said application, and the Letters Patent to be obtained therefor:

NOW THEREFORE, upon consideration of our employment and other good and valuable consideration, the adequacy of which is hereby acknowledged, we do hereby sell and assign unto ASSIGNEE, and ASSIGNEE's legal representatives, successors, and assigns, the entire right, title, and interest in and to said invention, said application, and the Letters Patent, both of the United States and of other countries, that may or shall issue thereon; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, consistent with the terms of this Assignment.

UPON SAID CONSIDERATION, we do hereby covenant and agree with ASSIGNEE that we will not execute any writing or do any act whatsoever conflicting with this assignment, and that we will, at any time upon request, without further or additional consideration, but at the expense of ASSIGNEE, execute such additional assignments and other writings and do such additional acts as ASSIGNEE may

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deem necessary or desirable to perfect the ASSIGNEE's enjoyment of this grant, and render all necessary assistance in applying for and obtaining original, continuation, continuation in part, divisional, reexamined, renewal, reissued or extended Letters Patent of the United States, or of other countries, or inventor's certificates, on said invention, and in enforcing any rights or causes in action accruing as a result of such applications, certificates, or patents, by giving testimony in any proceedings or transactions involving such applications, certificates, or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of both parties.

The undersigned inventors hereby grant the patent practitioners associated with Customer No. 25235 the power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, we have hereunto set our hands and affixed our seals on the date hereinafter set forth.

Date:	
	Shan Sun
STATE OF COLORADO	) ) ss.
COUNTY OF	)
public in and for said county, ap be the same person whose name acknowledged that he signed, so and voluntary act for the uses a	of
Witness my hand	and official seal.
(SEAL)	
	Notary Public

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Date.	
	Thomas E. Davenport
STATE OF	)
COUNTY OF	) ss. )
public in and for said count known to me to be the same instrument, and acknowled	day of
My commission	n expires
Witness my ha	and and official seal.
(SEAL)	Notary Public
Date: 8-3-43	John Cronin
STATE OF VERMONT	)
COUNTY OF Chillerden	) ss. — )
public in and for said count to be the same person whos acknowledged that he signe	day of
My commissio	n expires
Witness my ha	and and official seal.
(SEAL)	Monus Paul Notary Public

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