504531568 09/04/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4578274

		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY DA	ATA				
		Name	Execution Date		
YORAM REVAH			03/03/2016		
DAVID MELMAN			03/03/2016		
TAL MIZRAHI			03/03/2016		
RAMI ZEMACH			03/03/2016		
CARMI ARAD			03/30/2016		
RECEIVING PARTY DA	ТА				
Name:		ELL ISRAEL (M.I.S.L) LTD			
Street Address:	6 HAM	6 HAMADA STREET			
Internal Address:	MORD	MORDOT HACARMEL INDUSTRIAL PARK			
City:	YOKNEAM				
State/Country:	ISRAEL				
Postal Code:	20692				
	1				
	Tabals 4				
PROPERTY NUMBERS	Total:				
Property Type	Total:	Number			
Property Type					
Property Type Application Number:		Number			
Property Type Application Number: CORRESPONDENCE D	ΑΤΑ	Number 15061755			
Property Type Application Number: CORRESPONDENCE D Fax Number:	ΑΤΑ	Number 15061755 (408)222-2755	Insuccessful, it will be sent		
Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will be using a fax number, if p	ATA e sent to	Number 15061755 (408)222-2755 o the e-mail address first; if that is u d; if that is unsuccessful, it will be s			
Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will be</i> <i>using a fax number, if p</i> Phone:	ATA e sent to	Number 15061755 (408)222-2755 o the e-mail address first; if that is u d; if that is unsuccessful, it will be s 408-222-2500			
Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will be</i> <i>using a fax number, if p</i> Phone: Email:	ATA e sent to	Number 15061755 (408)222-2755 o the e-mail address first; if that is un d; if that is unsuccessful, it will be s 408-222-2500 sherir@marvell.com			
Property Type Application Number: CORRESPONDENCE DA Fax Number: <i>Correspondence will be using a fax number, if p</i> Phone: Email: Correspondent Name:	ATA e sent to	Number 15061755 (408)222-2755 o the e-mail address first; if that is un d; if that is unsuccessful, it will be so 408-222-2500 sherir@marvell.com KELVIN VIVIAN			
Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will be</i> <i>using a fax number, if p</i> Phone: Email: Correspondent Name: Address Line 1:	ATA e sent to	Number 15061755 (408)222-2755 o the e-mail address first; if that is underse first; if that i	ent via US Mail.		
Property Type Application Number: CORRESPONDENCE DA Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name:	ATA e sent to	Number 15061755 (408)222-2755 o the e-mail address first; if that is un d; if that is unsuccessful, it will be s 408-222-2500 sherir@marvell.com KELVIN VIVIAN 5488 MARVELL LANE SANTA CLARA, CALIFORNIA 95054	ent via US Mail.		
Property Type Application Number: CORRESPONDENCE DA Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 4:	ATA e sent to provideo	Number 15061755 (408)222-2755 o the e-mail address first; if that is un d; if that is unsuccessful, it will be s 408-222-2500 sherir@marvell.com KELVIN VIVIAN 5488 MARVELL LANE SANTA CLARA, CALIFORNIA 95054	ent via US Mail.		
Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1:	ATA e sent to provideo	Number 15061755 (408)222-2755 o the e-mail address first; if that is un d; if that is unsuccessful, it will be s 408-222-2500 sherir@marvell.com KELVIN VIVIAN 5488 MARVELL LANE SANTA CLARA, CALIFORNIA 95054	ent via US Mail.		
Property Type Application Number: CORRESPONDENCE DA Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 4:	ATA e sent to provideo	Number 15061755 (408)222-2755 o the e-mail address first; if that is unsuccessful, it will be stand; if tha	ent via US Mail.		

Total Attachments: 8

source=MP6136 Executed Assignment INVS-MISL - Accepted #page1.tif
source=MP6136 Executed Assignment INVS-MISL - Accepted #page2.tif
source=MP6136 Executed Assignment INVS-MISL - Accepted #page3.tif
source=MP6136 Executed Assignment INVS-MISL - Accepted #page4.tif
source=MP6136 Executed Assignment INVS-MISL - Accepted #page5.tif
source=MP6136 Executed Assignment INVS-MISL - Accepted #page6.tif
source=MP6136 Executed Assignment INVS-MISL - Accepted #page7.tif
source=MP6136 Executed Assignment INVS-MISL - Accepted #page8.tif

PATENT

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned,

Yoram Revah, David Melman, Tal Mizrahi, Rami Zemach, and Carmi Arad

who have created a certain invention for which an application for United States Letters Patent was executed by me concurrently herewith and entitled:

METHOD AND APPARATUS FOR LOAD BALANCING IN NETWORK SWITCHES

Do hereby sell, assign and transfer to Marvell Israel (M.I.S.L) Ltd., a corporation of Israel, having a place of business at 6 Hamada Street, Mordot HaCarmel Industrial Park, Yokneam, Israel 20692, its successors, assigns, and legal representatives, the full and exclusive right to said invention and said application and to any and all Inventions described in said application for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States, its territorial possessions and all foreign countries; and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States, its territorial possessions and all foreign countries; and in and to any and all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possessions and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties;

Do hereby further sell, assign and transfer to Marvell Israel (M.I.S.L) Ltd., its successors, assigns, and legal representatives, the full and exclusive right to United States Provisional Patent Application No. 62/129,507 entitled "Resilient Hash," filed on March 6, 2015, and to any and all inventions described in said provisional patent application for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be entitled to the benefit thereof in the United States, its territorial possessions and all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possessions and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties;

Agree that Marvell Israel (M.I.S.L) Ltd., hereinafter referred to as Assignee, may apply for and receive Letters Patent for said invention and said inventions, hereinafter referred to as said invention, in its own name, in the United States, its territorial possessions, and all foreign countries; and that, when requested to carry out in good faith the intent and purpose of this assignment, at the expense of said Assignee, its successors, assigns and legal representatives, the undersigned will execute all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, execute all rightful oaths, assignments, powers of attorney and other papers, testify in any legal or quasi legal proceedings; communicate to said Assignee, its successors, assigns or legal representatives all facts known to the undersigned relating to said invention and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said invention and for vesting title to said invention and all applications for patents on said invention in said Assignee, its successors, assigns, or legal representatives; and

Covenant with said Assignee, its successors, assigns, or legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Page 1 of 2

PATENT

IN TESTIMONY WHEREOP I have hereunto set MY signature on the date indicated below.

Full Name of First Inventor:	
Yoram Revah	
Inventor's Signature:	Date: Month/Pay/Year
gist t	3/3/2016
Full Name of Second Inventor:	
David Melman	
Inventor's Signature:	Date: Month/Day/Year
Full Name of Third Inventor:	
Tal Mizrahi	
Inventor's Signature:	Date: Month/Day/Year
Att	03/03/2016
Full Name of First Inventor:	
Yoram Revah	
	The second state of the se
Inventor's Signature:	Date: Month/Day/Year
	3/3/2016
Full Name of Fourth Inventor:	
Remi Zemach	
Inventor's Signature:	Date: Month/Day/Year
mvenue s orgnaune.	apraeses stranderenet antage a wree
Full Name of Fifth Inventor:	

Carmi Arad

Inventor's Signature:

Date: Month/Day/Year

PATENT

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned,

Yoram Revah, David McIman, Tal Mizrahi, Rami Zemach, and Carmi Arad

who have created a certain invention for which an application for United States Letters Patent was executed by me concurrently herewith and entitled:

METHOD AND APPARATUS FOR LOAD BALANCING IN NETWORK SWITCHES

Do hereby sell, assign and transfer to Marvell Israel (M.I.S.L) Ltd., a corporation of Israel, having a place of business at 6 Hamada Street, Mordot HaCarmel Industrial Park, Yokneam, Israel 20692, its successors, assigns, and legal representatives, the full and exclusive right to said invention and said application and to any and all inventions described in said application for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States, its territorial possessions and all continuations, its continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possessions and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties;

Do hereby further sell, assign and transfer to Marvell Israel (M.I.S.L) Ltd., its successors, assigns, and legal representatives, the full and exclusive right to United States Provisional Patent Application No. 62/129,507 entitled "Resilient Hash," filed on March 6, 2015, and to any and all inventions described in said provisional patent application for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be entitled to the benefit thereof in the United States, its territorial possessions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possessions and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties;

Agree that Marvell Israel (M.I.S.L) Ltd., hereinafter referred to as Assignee, may apply for and receive Letters Patent for said invention and said inventions, hereinafter referred to as said invention, in its own name, in the United States, its territorial possessions, and all foreign countries; and that, when requested to carry out in good faith the intent and purpose of this assignment, at the expense of said Assignec, its successors, assigns and legal representatives, the undersigned will execute all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, execute all rightful oaths, assignments, powers of attorney and other papers, testify in any legal or quasi legal proceedings; communicate to said Assignee, its successors, assigns or legal representatives all facts known to the undersigned relating to said invention and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said invention and for vesting title to said invention and all applications for patents on said invention in said Assignee, its successors, assigns, or legal representatives; and

Covenant with said Assignee, its successors, assigns, or legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Page 1 of 2

PATENT

IN TESTIMONY WHEREOF I have hereunto set MY signature on the date indicated below.

Full Name of First Inventor:

Yoram Revah

Inventor's Signature:

Date: Month/Day/Year

Full Name of Second Inventor:	
David Melman	
Inventor's Signature: 1 M	Date: Month/Day/Year
Inventor's Signature: Melman	MARCH 3 2016
Full Name of Third Inventor:	
Tal Mizrahi	
Inventor's Signature:	Date: Month/Day/Year
Full Name of First Inventor:	
Yoram Revah	
Inventor's Signature:	Date: Month/Day/Year
Full Name of Fourth Inventor:	
Remi Zemach	
Inventor's Signature:	Date: Month/Day/Year
Full Name of Fifth Inventor:	
Carmi Arad	
Inventor's Signature:	Date: Month/Day/Year

PATENT

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned,

Yoram Revah, David Melman, Tal Mizrahi, Rami Zemach, and Carmi Arad

who have created a certain invention for which an application for United States Letters Patent was executed by me concurrently herewith and entitled:

METHOD AND APPARATUS FOR LOAD BALANCING IN NETWORK SWITCHES

Do hereby sell, assign and transfer to Marvell Israel (M.I.S.L) Ltd., a corporation of Israel, having a place of business at 6 Hamada Street, Mordot HaCarmel Industrial Park, Yokneam, Israel 20692, its successors, assigns, and legal representatives, the full and exclusive right to said invention and said application and to any and all inventions described in said application for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States, its territorial possessions and all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possessions and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties;

Do hereby further sell, assign and transfer to Marvell Israel (M.I.S.L) Ltd., its successors, assigns, and legal representatives, the full and exclusive right to United States Provisional Patent Application No. 62/129,507 entitled "Resilient Hash," filed on March 6, 2015, and to any and all inventions described in said provisional patent application for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be entitled to the benefit thereof in the United States, its territorial possessions and all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possessions and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties;

Agree that Marvell Israel (M.I.S.L) Ltd., hereinafter referred to as Assignee, may apply for and receive Letters Patent for said invention and said inventions, hereinafter referred to as said invention, in its own name, in the United States, its territorial possessions, and all foreign countries; and that, when requested to carry out in good faith the intent and purpose of this assignment, at the expense of said Assignee, its successors, assigns and legal representatives, the undersigned will execute all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, execute all rightful oaths, assignments, powers of attorney and other papers, testify in any legal or quasi legal proceedings; communicate to said Assignee, its successors, assigns or legal representatives all facts known to the undersigned relating to said invention and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said invention and for vesting title to said invention and all applications for patents on said invention in said Assignee, its successors, assigns, or legal representatives; and

Covenant with said Assignee, its successors, assigns, or legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Page 1 of 2

PATENT

IN TESTIMONY WHEREOF I have hereunto set MY signature on the date indicated below.

Full Name of First Inventor:

Yoram Revah

Inventor's Signature:

Date: Month/Day/Year

Full Name of Second Inventor:

David Melman

Inventor's Signature:

Date: Month/Day/Year

Full Name of Third Inventor: Tal Mizrahi

Inventor's Signature:

Date: Month/Day/Year

Full Name of First Inventor:

Yoram Revah

Inventor's Signature:

Date: Month/Day/Year

		Matura and American A
Full Name of Fourth Inventor:		
Remi Zemach		
Inventor's Signature:	Date: Month/Day/Year	
and a start of the	Mar/03/2016	
Full Name of Fifth Inventor:		

Carmi Arad

Inventor's Signature:

Date: Month/Day/Year

PATENT

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned,

Yaram Revah, David Melman, Tal Mizrahi, Rami Zemach, and Carmi Arad

who have created a certain invention for which an application for United States Letters Patent was executed by me concurrently herewith and entitled:

METHOD AND APPARATUS FOR LOAD BALANCING IN NETWORK SWITCHES

Do hereby sell, assign and transfer to Marvell Israel (M.I.S.L) Ltd., a corporation of Israel, having a place of business at 6 Hamada Street, Mordot HaCarmel Industrial Park, Yokneam, Israel 20692, its successors, assigns, and legal representatives, the full and exclusive right to said invention and said application and to any and all inventions described in said application for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States, its territorial possessions and all continuations-in-part, continuations, divisions, aubstitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possessions and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties;

Do hereby further sell, assign and transfer to Marvell Israel (M.I.S.L) Ltd., its successors, assigns, and legal representatives, the full and exclusive right to United States Provisional Patent Application No. 62/129,507 entitled "Resilient Hash," filed on March 6, 2015, and to any and all inventions described in said provisional patent application for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be entitled to the benefit thereof in the United States, its territorial possessions and all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possessions and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties; including all future conventions, unions, agreements, acts, and treaties;

Agree that Marvell Israel (M.I.S.L) Ltd., hereinafter referred to as Assignee, may apply for and receive Letters Patent for said invention and said inventions, hereinafter referred to as said invention, in its own name, in the United States, its territorial possessions, and all foreign countries; and that, when requested to carry out in good faith the intent and purpose of this assignment, at the expense of said Assignee, its successors, assigns and legal representatives, the undersigned will execute all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, execute all rightful oaths, assignments, powers of attorney and other papers, testify in any legal or quasi legal proceedings; communicate to said Assignee, its successors, assigns or legal representatives all facts known to the undersigned relating to said invention and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said invention and for vesting title to said invention and all applications for patents on said invention in said Assignee, its successors, assigns, or legal representatives; and

Covenant with said Assignce, its successors, assigns, or legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Page 1 of 2

PATENT

IN TESTIMONY WHEREOF I have hereunto set MY signature on the date indicated below.

Full Name of First Inventor:		
Yoram Revah		feel.at
inventor's Signature:		Date: Month/Day/Year
Full Name of Second Inventor:		
David Melman		
Inventor's Signature:		Date: Month/Day/Year
annin i na na taona taon		
Full Name of Third Inventor:		
Tal Mizrahi		
Inventor's Signature:		Date: Month/Day/Year

Full Name of Fourth Inventor:	1.1.1	
Remi Zemach		
Inventor's Signature:		Date: Month/Day/Year
	: . ¹ .	
	hados lastecuratere la montene	
Full Name of Fifth Inventor:		
Carmi Arad		
Inventor's Signature:		
		0.3/30/2016
Accepted on behalf of		
MARVELL ISRAEL (M.I.S.L) LTD.		
By: <u>N2(L</u>	and an and on a state of the little	
Opher Golffer Gottlieb (CP MISL Finance Directo	Ά)	
Marvell Israel (M.I.S.L.) L	or TD	
Title:	···· · · · · · · · · · · · · · · · · ·	
Δ	2.5	
Date: <u>Aug 30 20</u>	1+	

age 2 of 2

PATENT REEL: 043749 FRAME: 0886

RECORDED: 09/04/2017