

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7566335

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
KIOXIA ISRAEL LIMITED	04/09/2022
RECEIVING PARTY DATA	
Name:	KIOXIA AMERICA, INC.
Street Address:	5231 CALIFORNIA AVENUE
City:	IRVINE
State/Country:	CALIFORNIA
Postal Code:	92617
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17135722
CORRESPONDENCE DATA	
Fax Number:	(202)672-5399
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	2026725300
Email:	ipdocketing@foley.com
Correspondent Name:	FOLEY & LARDNER LLP
Address Line 1:	3000 K STREET, N.W.
Address Line 2:	SUITE 600
Address Line 4:	WASHINGTON, D.C. 20007
ATTORNEY DOCKET NUMBER:	117441-0185
NAME OF SUBMITTER:	MIJY O'NEILL
SIGNATURE:	/MIJY O'NEILL/
DATE SIGNED:	09/29/2022
Total Attachments: 7	
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ASSIGNMENT

WHEREAS, the undersigned inventor(s) desires to transfer all right, title and interest in and to the inventions disclosed in the following Invention Disclosure Form(s):

- EFFICIENT HARD DECODING METHODS FOR NAND FLASH MEMORIES submitted by Avi Steiner, Amir Nassie, Anat Rot, Ofir Kanter, and Hanan Weingarten (collectively, the "INVENTORS"):

And such inventions which if now or hereafter are disclosed in the patent application(s):

(a) ☐ U.S. patent application executed on _____ and entitled, "HARD DECODING METHODS IN DATA STORAGE DEVICES",

(b) ☒ U.S. application no. 17/135722 filed on 12-28-2020,

(c) ☐ International (e.g., PCT, JP) application no. _____ filed on _____,

(collectively, the "INVENTIONS");

WHEREAS, Kioxia Israel Limited ("KIOXIA ISRAEL"), an Israel corporation with its principal place of business at 24 Raul Wallenberg Street, Tel Aviv, 69719, Israel, desires to acquire all of the right, title and interest of Avi Steiner, Amir Nassie, Anat Rot, Ofir Kanter, and Hanan Weingarten (hereinafter referred to as "KIOXIA ISRAEL INVENTOR(S)") in, to and under the INVENTIONS and KIOXIA ISRAEL further desires to transfer all such right, title and interest to Kioxia America, Inc., (hereinafter referred to as "KAI") organized and existing under the laws of the United States, having a place for the transaction of business at 5231 California Avenue, Irvine, CA 92617.

WHEREAS, KAI desires to acquire all of the right, title and interest of KIOXIA ISRAEL in, to and under the INVENTIONS and KAI further desires to transfer all such right, title and interest to KIOXIA Corporation (hereinafter referred to as "KC") a corporation duly organized and existing under the laws of Japan, with offices at 1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, KIOXIA ISRAEL INVENTORS hereby sell(s), assign(s) and transfer(s) to KIOXIA ISRAEL, the entire right, title and interest for the United States and its territorial possessions, and in all foreign countries, in and to the INVENTIONS and any and all improvements thereon which are the subject of the INVENTIONS, and in and to any U.S. or foreign patent application for such INVENTIONS and improvements and any legal equivalent thereof in a foreign country, including the right to claim priority, and in and to any division, continuation or continuation-in-part, renewal or substitute thereof, and in and to all resulting Letters Patents or any reissue, reexamination certificate, supplemental examination certificate, post grant review certificate, inter partes review certificate, or otherwise, thereof, to have and to hold the same to the full end of the term or terms for which any and all of said Letters Patent may be granted (collectively, the "ASSIGNED INVENTIONS");

THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, KIOXIA ISRAEL hereby sells, assigns and transfers to KAI the entire right, title and interest to the ASSIGNED INVENTIONS;

KIOXIA ISRAEL INVENTOR(S), KIOXIA ISRAEL, hereby covenant that KIOXIA ISRAEL INVENTOR(S), KIOXIA ISRAEL, respectively, has/have the full power to make this assignment, and that no assignment,

sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment; and

Without further payment or compensation by KIOXIA ISRAEL, or their successors and assigns, KIOXIA ISRAEL INVENTOR(S), respectively, further covenant(s) and agree(s) to communicate to KIOXIA ISRAEL, their representatives, agents, their successors or their assigns, or to subsequent assignees of the ASSIGNED INVENTIONS, any facts relating to the ASSIGNED INVENTIONS including evidence for purposes of interference or derivation proceedings or other administrative or legal proceedings whenever requested; to testify in any interference derivation, legal or administrative proceedings whenever requested; to execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and to do everything possible to aid KIOXIA ISRAEL, their successors, assigns, nominees, or to subsequent assignees of the ASSIGNED INVENTIONS to secure, obtain and enforce proper patent protection for the ASSIGNED INVENTIONS in this or any foreign country.

And for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, KAI hereby sells, assigns and transfers to KC the entire right, title and interest to the ASSIGNED INVENTIONS;

INVENTOR(S), KIOXIA ISRAEL authorize and request the issuing authority to issue any and all patents on said application or applications to KC or its successors and assigns;

KAI hereby covenants that it has the full power to make this assignment, and that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment; and

Any attorney of record for KC, and its successors and assigns, at the direction of KC is authorized and requested by the execution of this assignment to insert into this assignment any further patent or patent application information in the blanks and check boxes above as necessary for recordation of this document.

IN WITNESS WHEREOF, the **INVENTOR(S)** has/have hereunto affixed his/her/their signatures on the date below written.

1) Avi Steiner Avi Steiner 10/4/2022
(Signature) (Type or Print Name) (Date)

15 Habrosh St. Kiriat Motzkin Israel
(Residence Address)

2) _____ Amir Nassie _____
(Signature) (Type or Print Name) (Date)

(Residence Address)

3) _____ Anat Rot _____
(Signature) (Type or Print Name) (Date)

(Residence Address)

sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment; and

Without further payment or compensation by KIOXIA ISRAEL, or their successors and assigns, KIOXIA ISRAEL INVENTOR(S), respectively, further covenant(s) and agree(s) to communicate to KIOXIA ISRAEL, their representatives, agents, their successors or their assigns, or to subsequent assignees of the ASSIGNED INVENTIONS, any facts relating to the ASSIGNED INVENTIONS including evidence for purposes of interference or derivation proceedings or other administrative or legal proceedings whenever requested; to testify in any interference derivation, legal or administrative proceedings whenever requested; to execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and to do everything possible to aid KIOXIA ISRAEL, their successors, assigns, nominees, or to subsequent assignees of the ASSIGNED INVENTIONS to secure, obtain and enforce proper patent protection for the ASSIGNED INVENTIONS in this or any foreign country.

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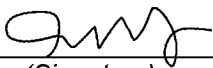
KAI hereby covenants that it has the full power to make this assignment, and that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment; and

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IN WITNESS WHEREOF, the **INVENTOR(S)** has/have hereunto affixed his/her/their signatures on the date below written.

1) _____
(Signature) Avi Steiner _____
(Type or Print Name) (Date)

(Residence Address)

2)  Amir Nassie April 4th 2022
(Signature) (Type or Print Name) (Date)

(Residence Address)

3) _____
(Signature) Anat Rot _____
(Type or Print Name) (Date)

(Residence Address)

sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment; and

Without further payment or compensation by KIOXIA ISRAEL, or their successors and assigns, KIOXIA ISRAEL INVENTOR(S), respectively, further covenant(s) and agree(s) to communicate to KIOXIA ISRAEL, their representatives, agents, their successors or their assigns, or to subsequent assignees of the ASSIGNED INVENTIONS, any facts relating to the ASSIGNED INVENTIONS including evidence for purposes of interference or derivation proceedings or other administrative or legal proceedings whenever requested; to testify in any interference derivation, legal or administrative proceedings whenever requested; to execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and to do everything possible to aid KIOXIA ISRAEL, their successors, assigns, nominees, or to subsequent assignees of the ASSIGNED INVENTIONS to secure, obtain and enforce proper patent protection for the ASSIGNED INVENTIONS in this or any foreign country.

And for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, KAI hereby sells, assigns and transfers to KC the entire right, title and interest to the ASSIGNED INVENTIONS;

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IN WITNESS WHEREOF, the **INVENTOR(S)** has/have hereunto affixed his/her/their signatures on the date below written.

1) _____
(Signature) Avi Steiner
(Type or Print Name) _____
(Date)

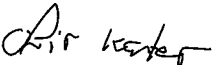
(Residence Address)

2) _____
(Signature) Amir Nassie
(Type or Print Name) _____
(Date)

(Residence Address)

3)  _____
(Signature) Anat Rot
(Type or Print Name) April 11th 2022
(Date)

(Residence Address)

4)  Ofir Kanter 10/04/2022
(Signature) (Type or Print Name) (Date)

(Residence Address)

5) _____ Hanan Weingarten _____
(Signature) (Type or Print Name) (Date)

(Residence Address)

IN WITNESS WHEREOF, a representative of **KIOXIA ISRAEL** with authorization to make this assignment has hereunto affixed his/her signature on the date below written.

_____ Oded Ilan, President _____
(Signature) (Name and Title) (Date)

IN WITNESS WHEREOF, a representative of **KAI** with authorization to make this assignment has hereunto affixed his/her signature on the date below written.

_____ Rick Lin, IP Attorney _____
(Signature) (Name and Title) (Date)

4) _____ Ofir Kanter _____
(Signature) (Type or Print Name) (Date)

(Residence Address)

5) Hanan Weingarten Hanan Weingarten April 11, 2022
(Signature) (Type or Print Name) (Date)

Hamesila 13, Herzliya, 4658013, Israel

(Residence Address)

IN WITNESS WHEREOF, a representative of **KIOXIA ISRAEL** with authorization to make this assignment has hereunto affixed his/her signature on the date below written.

_____ Oded Ilan, President _____
(Signature) (Name and Title) (Date)

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_____ Rick Lin, IP Attorney _____
(Signature) (Name and Title) (Date)

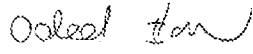
4) _____ Ofir Kanter _____
(Signature) (Type or Print Name) (Date)

(Residence Address)


5) _____ Hanan Weingarten _____
(Signature) (Type or Print Name) (Date)

(Residence Address)

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 _____ Oded Ilan, President 04.09.2022
(Signature) (Name and Title) (Date)

IN WITNESS WHEREOF, a representative of **KAI** with authorization to make this assignment has hereunto affixed his/her signature on the date below written.

 _____ Rick Lin, IP Attorney 8/4/2022
(Signature) (Name and Title) (Date)