503829779 05/17/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3876429

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
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DONG KEUN KIM	05/23/2014	

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14201534

CORRESPONDENCE DATA

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NAME OF SUBMITTER: STEVEN HIMMELSTEIN

PATENT REEL: 038618 FRAME: 0708

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SIGNATURE:	/Steven Himmelstein/
DATE SIGNED:	05/17/2016
Total Attachments: 4 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif	

PATENT REEL: 038618 FRAME: 0709 In consideration of value received, I, having a residence as stated below above my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application for United States patent entitled:

RESISTANCE CHANGE MEMORY AND TEST METHOD OF THE SAME

have sold and assigned and do hereby sell and assign to

SK hynix Inc. a Koren corporation, having a business address at 2091, Gyeongchung-daero, Bubal-eub, Icheon-si, Gyeonggi-do, Korea;

its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said United States patent application:

(check one)		executed concurrently herewith				
		executed on	;			
	[_x]	Application No. 14/281,534	filed	: March '	7,	2014

and in and to all applications for patent and patents for invention including all divisions, reissues, continuations, substitutes and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, continued prosecution, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention.

I hereby grant the following law firm the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the Rules of the U.S. Patent and Trademark Office for recordation of this document.

Holtz, Holtz, Goodman & Chick PC, 220 Fifth Avenue - 16th Floor, New York, N.Y. 10001-7708

ASSIGNMENT

(13S0706)

[Inventor]

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Mailing Address: c/o Patent Development Team, 4th floor, M7B Bldg., 2091, Gyeongchung daero Bubal-eub Icheon-si Gyeonggi-do, 467-701, Korea

Citizenship: Republic of Korea

In consideration of value received, I, having a residence as stated below above my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application for United States patent entitled:

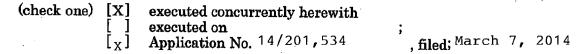
RESISTANCE CHANGE MEMORY AND TEST METHOD OF THE SAME

have sold and assigned and do hereby sell and assign to

KABUSHIKI KAISHA TOSHIBA

a Japanese corporation, having a business address at 1-1, Shibaura 1-chome, Minato ku, Tokyo 105-8001, Japan;

its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said United States patent application:



and in and to all applications for patent and patents for invention including all divisions, reissues, continuations, substitutes and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, continued prosecution, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention.

I hereby grant the following law firm the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the Rules of the U.S. Patent and Trademark Office for recordation of this document.

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PATENT REEL: 038618 FRAME: 0712

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Mar. 13, 20

Date:

PATENT REEL: 038618 FRAME: 0713

RECORDED: 05/17/2016