	Case 4	1:17-cv-00455 Document 1 Filed	in TXSD on 02/13/17 Page 1 of 10		
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3	UNITED STATES DISTRICT COURT FOR THE SOUTHERN DISTRICT OF TEXAS				
4	FOR THE SOUTHERN DISTRICT OF TEXAS				
5	JAMES B.	GOODMAN,	Civil Action No.		
6		Plaintiff,	COMPLAINT FOR PATENT		
7		VS.	INFRINGEMENT AND		
8	SAMSUNG ELECTRONICS CO., LTD, a		DEMAND FOR JURY TRIAL		
9 10	ELECTRO	oration; SAMSUNG NICS AMERICA, INC., a New York SAMSUNG			
10 11	TELECOM	MUNICATIONS AMERICA, LLC, a mited liability company,			
12	Defendant. ************************************				
13	NOW COMES Plaintiff, JAMES B. GOODMAN ("Goodman" herein), through his				
14	attorney, and files this Complaint for Patent Infringement and Demand for Jury Trial against				
15	Samsung Ele	Samsung Electronics Co., Ltd., Samsung Electronics America, Inc. and Samsung			
16 17	Telecommun	ications America, LLC (collectively "S	amsung").		
17 18	PARTIES				
18 19	1.	Goodman is an individual residing in	the State of Texas.		
20	2.	Samsung Electronics Co., Ltd. ("SEC	") is a Korean corporation with its principal		
20			ng-gu, Seoul, 100-742, South Korea. SEC		
22		designs, manufactures, and provides	6		
23	2	products, including consumer electro			
24	3.	-	'SEA") is a New York corporation with its		
25			allenger Road, Ridgefield Park, New Jersey EA is a subsidiary of SEC, and markets, sell		
26			many consumer electronics, including		
27		mobile phones, and computers.			
28		<b>i</b> , <b>f</b>			

4. Samsung Telecommunications America, LLC ("STA") is a Delaware limited liability company with its principal place of business at 1301 East Lookout Drive, Richardson, Texas 75081. On information and belief, STA is a subsidiary of SEC, and markets, sell, or offer for sale personal and business communications devices in the United States, including computer, and mobile phones.

## JURISDICTION AND VENUE

- 5. This is an action for patent infringement of United States Patent No. 6,243,315 (hereinafter "the '315 Patent") pursuant to the laws of the United States of America as set forth in Title 35 Sections 271 and 281 of the United States Code. This court has subject matter jurisdiction over this action pursuant to 28 U.S.C. Sec. 1338(a) and 28 U.S.C. Sec. 1331. Venue is proper in this judicial district under 28 U.S.C. § 1391(d) and 1400(b).
- 6. On information and belief, SEC, SEA, and STA each have substantial sales and presence in this Federal Jurisdiction through offering to sell, and sales online through the internet, and through a multitude of local stores in this Federal Jurisdiction.
- 7. On information and belief, each of SEC, SEA, and STA is subject to this Court's specific and general personal jurisdiction, pursuant to due process and/or the Texas Long Arm Statute, due to at least its business presence in this Federal Judicial District, including substantial infringement in this Federal Judicial District.
- 8. On information and belief, each of SEC, SEA, and STA directly and/or through intermediaries, advertise at least through web sites and other web sites, offers to sell, sold and/or distributed its products, and/or has induced the sale and use of infringing products in this Federal Judicial District.

9. In addition, and on information and belief, each of SEC, SEA, and STA is subject to the Court's general jurisdiction, including from regularly doing business, or soliciting business, or engaging in other persistent courses of conduct, and/or deriving substantial revenue from goods and services provided to individuals and businesses in this Federal Judicial District.

## BACKGROUND

- 10. Goodman is the inventor and patent owner of the '315 Patent. The '315 Patent jumped into importance when the consumer and commercial fields discovered the enormous advantages of incorporating the claimed invention of the '315 Patent to save power consumption and inhibit errors in devices requiring memories systems.
- 11. Many of the mobile phones, and computer related products sold in this Federal Judicial District by Samsung incorporate memory products known in the industry as DDR3, and DDR4 memory products. Variations of these memory products such as the DDR3 memory product include DDR3-800, DDR3-1066, DDR3-1333, DDR3-1600, and DDR3-1666 as well as DDR3L-800, DDR3L-1066, DDR3L-1333, DDR3L-1600, and DDR3L-1666. The use of the terms "DDR3", and "DDR4" to include in the designation of a memory product in the industry requires the performance of the memory product to comply with the respective industry standards for performance, and operations.
  - 12. The standards published by the Joint Electron Device Engineering Council Solid State Technology Association ("JEDEC") state for the respective DDR3, and DDR4 memory products and their variation: "No claims to be in conformance with this standard may be made unless all requirements stated in the standard are met."
  - On information and belief, the use of the terms "DDR3", and "DDR4", and variations of each implies that the respective memory products complies with the corresponding JEDEC Standards.

## Case 4:17-cv-00455 Document 1 Filed in TXSD on 02/13/17 Page 4 of 10

 Therefore, the DDR3, and DDR4 memory products and their variations must operate in compliance with the respective standards established by the JEDEC Solid State Technology Association, 3103 North 10th Street, Suite 240-S, Arlington, VA 22201.

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- Any memory product identified as being a DDR3 memory product, or a variation thereof including the term "DDR3" must comply with JEDEC Standard JESD79-3F.
- Any memory product identified as being a DDR4 memory product, or a variation thereof including the term "DDR4" must comply with JEDEC Standard JESD79-4A.
- 17. On information and belief, the JEDEC Standards for DDR3, and DDR4 memory products have several relevant operating capabilities in common when installed in a Samsung mobile phone, or computer related product, for example: (a) Each memory product has at least two banks of volatile memory, and this is the equivalent of a plurality of volatile solid state memory devices under the doctrine of equivalents; (b) A first external device (supplied by Samsung mobile phone, and computer related product) connected to the memory product can provide signals for selectively electrically isolating the address and control lines so that signals on the address and control lines do not reach the memory devices; and (c) A second external device (supplied by Samsung mobile phone, and computer related product) connected to the memory product can determine when the memory system is not being accessed and can initiate a low power for the memory system wherein the first external device isolates the memory devices and places the memory devices in self refresh mode, thereby reducing the electrical energy drawn from the electrical power supply of the Samsung mobile phone, and computer related product.

18. On information and belief, the aforementioned Samsung computer related products incorporating a DDR3, and DDR4 provide the aforementioned first and second external devices in order to take advantage of the respective operating

Page 4

1	specification of the memory products, including the low power mode which saves					
2	electrical energy while protecting the memory product against potential signals					
3	which could damage or corrupt the stored data.					
4	19. The following is a Claim Chart for Claim 1 of the '315 Patent for the DDR3					
5	memory product (and similarly	y applies to the DDR4 memory product)				
6	incorporated into a Samsung mobile phone, or computer relates system:					
7	CLAIM CHART AND ASSOCIATED CONSTRUCTION					
8	U.S. Patent No. 6,243,315	SAMSUNG MOBILE PHONE, OR COMPUTER RELATED SYSTEM				
9		HAVING AN INSTALLED DDR3 MEMORY PRODUCT AND PROVIDING				
10	,	THE AFOREMENTIONED FIRST AND SECOND EXTERNAL DEVICES				
11	Claim 1. A memory system for use in a computer system, said memory system	A "memory system" can be construed to be "a system canable of retaining date". The				
12	comprising:	"a system capable of retaining data". The JEDEC Standard JESD79-3F specification at p. 18, Sec. 3.2, "The DDR3 SDRAM is a				
13		high-speed dynamic random-access memory ". On the same page, "an interface designed				
14 15		to transfer two data words per clock cycle". The DDR3 memory product retains data.				
15		Thus, this memory product is within the preamble description.				
17		preamore description.				
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1	a plurality of volatile solid state memory devices that retain information when an	A "memory device" can be construed to be an "integrated circuit or chip"; and "a plurality
2 3	electrical power source is applied to said memory devices within a predetermined	of volatile solid state memory devices" can be construed to be " <b>two or more memory</b>
3 4	voltage range and	devices in the memory system into which data may be written or from which data
5		may be retrieved that retain information while a electrical power source, having a
6		predetermined voltage range, is applied to the memory devices and when the voltage reaches a predetermined threshold outside
7		reaches a predetermined threshold outside of that range, the memory devices will no longer retain their current state of
8		information".
9 10		The JEDEC Standard JESD79-3F at p. 109, Sec. 6.1 states the absolute maximum DC Ratings. P. 111, Sec. 7.1 shows the recommended DC Operating Conditions with
11		a minimum and maximum for the DC voltages.
12		The JEDEC Standard JESD79-3F in at p. 77
13		refers to the memory module as being a "chip". See Sec. 4.15.
14 15		The JEDEC Standard JESD79-3F at p. 18, Sec. 3.2 states, "The DDR3 SDRAM is a
15		high-speed dynamic random-access internally configured a an eight-bank DRAM." The
17		second paragraph describes how a bank can be selected. See the Command Truth Table at p. 33, Sec. 4.1, and NOTE 3 explains that
18		"BA" is for the selection of a bank being operated upon. Hence, the DDR3 has eight
19		memory banks and the equivalents of a plurality of solid state memory devices.
20		On information and belief, a DRAM is
21		volatile memory and that means a voltage in a specific range must be applied to operate acceptably as pointed out above.
22	capable of being placed in a self refresh	The JEDEC Standard JESD79-3F shows that
23 24	mode;	the DDR3 is capable of being refreshed at p. 13, Sec. 2.10 for CKE, (CKE0), (CKE1)
24		"Self-Refresh operations (all banks idle)"; p. 17, Sec. 3.1 on the diagram; p. 31, Sec.
26		3.4.4.1 entitled "Partial Array Self-Refresh (PASR)"; p. 35, Sec. 4.2 shows an entry for "Self-Refresh"; p. 46, Sec. 4.9.0.1 entitled, "Auto Self-Refresh"; and
27	said memory devices having address lines and	
28	control lines;	
	L	II

1 and p. 79, Sec. 4.16 entitled "Self-Refresh Operation". 2 a control device for selectively electrically JEDEC Standard JESD79-3F at p. 81, Sec. 3 isolating said memory devices from 4.17.1 entitled "Power-Down Entry and Exit" respective address lines and respective control discloses a power-down operation. The 4 description states, "Entering power-down deactivates the input and output buffers, lines so that when said memory devices are electrically isolated, any signals received on 5 excluding CK, CK#, ODT, CKE, and RESET#. To protect DRAM internal delay said respective address lines and respective control lines do not reach said memory 6 on CKE line to block the input signals, devices; and multiple NOP or Deselect commands are 7 needed during the CKE switch off and cylce(s) after, this timing period are defined as tCPDED. CKE\_low will result in 8 deactivation of command and receivers after 9 tCPDED has expired. The text also states, "In power-down mode, CKE low, RESET# 10 high, and stable clock signal must be maintained at the inputs of the DDR3 11 SDRAM, and ODT should be in a valid state, but all other input signals are "Don't Care." 12 The input signals are address and control signals are related to the CK# input noted at 13 p. 13, Sec. 2.10, where it is stated, "All Address and control input signals are sampled 14 on the crossing of the positive edge of CK and negative edge of CK#. 15 a memory access enable control device The power-down is due to an input signal 16 coupled to said control device and to said from the second external device as pointed control lines for determining when said out at P. 13, Sec. 2.10. The device generating 17 the input signal for the power-down functions memory system is not being accessed and for like the claimed memory access enable initiating a low power mode for said memory 18 system wherein said control device control device. JEDEC Standard JESD79-3F, Sec. 4.17.1 states, "Power-down is synchronously electrically isolates said memory devices and 19 places said memory devices in said self refresh mode, thereby reducing the amount of entered when CKE is registered low (along 20 electrical energy being drawn from an electrical power supply for said computer with NOP or Deselect command). CKE is not allowed to go low while mode register set command, MPR operations, ZQCAL 21 system. operations. DLL locking or read/write 22 operations are in progress. 23 24 25 26 27 28 Page 7

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20. The respective DDR3, and DDR4 memory products are typically incorporated into the Samsung mobile phone and computer related product on what is known in the industry as a "motherboard", and other components on the motherboard provide subsystems to monitor activity in the mounted memory product, initiate the reduced power down mode, to inhibit responses in the memory products on the motherboard, and other requirements of the respective JEDEC standard.

21. Goodman has granted limited, non-exclusive licenses to the following companies: Patriot Memory, LLC, Nan Ya Technology Corporation USA, ON Semiconductor Corporation, Intel Corporation, Numonyx B.V., Atmel Corporation, Spansion, Inc., Hynix Semiconductor America Inc., NanoAmp Solutions, Inc., Integrated Silicon Solutions Inc., Fujitsu, Samsung, Sharp Electronics Corporation, Toshiba Corporation, Elpida, Micron Technology, Inc., Infineon Technologies North America Corp, and Smart Modular Technologies Inc.

## COUNT ONE (DIRECT INFRINGEMENT OF U.S. PATENT NO. 6,243,315)

- 22. Plaintiff Goodman repeats and incorporates herein the allegations contained in paragraphs 1 through 21 above.
- 23. On June 5, 2001, the '315 Patent entitled "COMPUTER MEMORY SYSTEM WITH A LOW POWER MODE", was duly and legally issued to James B. Goodman, as the sole patentee.
- 24. Plaintiff Goodman is the sole owner of the '315 Patent, and has standing to bring this action.
- 25. All of the limitations of Claim 1 of the '315 Patent are present in SEC related mobile phones, or computer products incorporating at least one DDR3, or DDR4 memory product offered for sale, and being sold directly or indirectly by SEC in this Federal Judicial District.
- 26. SEC is infringing at least claim 1 of the '315 Patent literally, or under the doctrine of equivalents in this Federal Judicial District.

	COUNT TWO
	(DIRECT INFRINGEMENT OF U.S. PATENT NO. 6,243,315)
27.	Plaintiff Goodman repeats and incorporates herein the allegations contained in
	paragraphs 1 through 21 above.
28.	On June 5, 2001, the '315 Patent entitled "COMPUTER MEMORY SYSTEM
	WITH A LOW POWER MODE", was duly and legally issued to James B.
	Goodman, as the sole patentee.
29.	Plaintiff Goodman is the sole owner of the '315 Patent, and has standing to bring
	this action.
30.	All of the limitations of Claim 1 of the '315 Patent are present in SEA related
	mobile phones, or computer products incorporating at least one DDR3, or DDR4
	memory product offered for sale, and being sold directly or indirectly by SEC in
	this Federal Judicial District.
31.	SEA is infringing at least claim 1 of the '315 Patent literally, or under the doctrine
	of equivalents in this Federal Judicial District.
	COUNT ONE
	(DIRECT INFRINGEMENT OF U.S. PATENT NO. 6,243,315)
32.	Plaintiff Goodman repeats and incorporates herein the allegations contained in
	paragraphs 1 through 21 above.
33.	On June 5, 2001, the '315 Patent entitled "COMPUTER MEMORY SYSTEM
	WITH A LOW POWER MODE", was duly and legally issued to James B.
	Goodman, as the sole patentee.
34.	Plaintiff Goodman is the sole owner of the '315 Patent, and has standing to bring
	this action.
35.	All of the limitations of Claim 1 of the '315 Patent are present in STA related
	mobile phones, or computer products incorporating at least one DDR3, or DDR4
	memory product offered for sale, and being sold directly or indirectly by SEC in
	this Federal Judicial District.

	Case 4:	17-cv-00455 Document 1	Filed in TXSD on 02/13/17 Page 10 of 10	
1	36.	STA is infringing at least class	im 1 of the '315 Patent literally, or under the doctrine	
2	of equivalents in this Federal Judicial District.			
3	JURY DEMAND			
4	Pursuant to Fed. R. Civ. P. 38(b), Plaintiff hereby demands a jury trial as to all issues in			
5	this lawsuit.			
6		PRAYE	R FOR RELIEF	
7	THEREFORE, Plaintiff respectfully requests this Court to:			
8	a.	enter judgment for Plaintiff o	on Claim 1 of the '315 Patent for patent infringement,	
9		either literally, and/or under t	the doctrine of equivalents against SEC, SEA, and	
10		STA, respectively;		
11	b.	order that an accounting be h	ad for the damages caused to the Plaintiff by the	
12		infringing activities of the SEC, SEA, and STA, respectively;		
13	с.	enter an injunction to prohibit SEC, SEA, and STA, respectively, from directly or		
14		indirectly from offering for sa	ale, or selling infringing products;	
15	d.	award Plaintiff interest and costs for SEC, SEA, and STA, respectively; and		
16	e.	e. award Plaintiff such other and further relief as this Court may deem just and		
17		equitable.		
18		THE PLAINT	ìIFF	
19			JAMES B. GOODMAN	
20	Date: Februa	ry 13, 2017	<u>/s/ David Fink</u> David Fink	
21			Reg. No. 299869 Fink & Johnson	
22			7519 Apache Plume	
23			Houston, Texas 77071 713.729.4991 Tel.; 713.729.8408 Fax	
24			Attorney in Charge for the Plaintiff	
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	Page 10			