	Case 8:23-cv-00033 Document 1	Filed 01/09/2	23 Page 1 of 49	Page ID #:1		
1 2 3 4 5 6 7 8	RUSS, AUGUST & KABAT Brian D. Ledahl, SBN 186579 <u>bledahl@raklaw.com</u> Paul A. Kroeger, SBN 229074 <u>pkroeger@raklaw.com</u> 12424 Wilshire Boulevard Twelfth Floor Los Angeles, California 90025 Telephone: (310) 826-7474 Facsimile: (310) 826-6991 Attorneys for Plaintiff LONGITUDE LICENSING LIN UNITED CENTRAL	STATES I	DISTRICT COU T OF CALIFOI	JRT RNIA		
9	LONGITUDE LICENSING LIMITED,					
10	Plaintiff,		Case No			
11	V.		COMPLAIN INFRINGEM	F FOR PATENT IENT		
12	ASUSTEK COMPUTER, INC ASUS COMPUTER	C. and	JURY TRIAI	L DEMANDED		
13	INTERNATIONAL, INC.,					
14	Defendants.					
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	COMPLAINT					

1. Plaintiff Longitude Licensing Limited ("Longitude" or "Plaintiff") for its Complaint against Defendants ASUSTek Computer, Inc. ("ASUSTek") and ASUS Computer International, Inc. ("ACI") (ASUSTek and "ACI" are collectively referred to as "ASUS" or "Defendnats"), hereby alleges as follows:

PARTIES

2. Longitude is an entity formed under the laws of Ireland with its principal place of business at Plaza 255 Suite 2A, Blanchardstown Corporate Park 2, Dublin D15 YH6H, Ireland.

3. On information and belief, Defendant ASUSTek Computer Inc. is a publicly owned corporation organized under the laws of Taiwan, with its principal place of business at No. 15, Li-Teh Rd., Beitou District, Taipei City 112, Taiwan. ASUSTeK does substantial business on an ongoing basis in the United States, including in this State and in this District. On information and belief, ASUSTeK causes and controls the sale, offer for sale, and distribution of its products in the State of California and in this District.

4. On information and belief, Defendant ASUS Computer International, Inc. is
a California corporation with its principal place of business at 48720 Kato Rd.,
Fremont, CA. ACI is a wholly owned subsidiary of ASUSTek, and imports the
accused products into the United States for ASUSTek.

NATURE OF THE ACTION

5. This is a civil action for the infringement of United States Patent Nos.
7,697,369 (the "369 patent"), 9,379,233 (the "233 patent"), and RE43,539 the
"539 Patent) (collectively, the "Patents-in-Suit") under the patent laws of the United
States, 35 U.S.C. § 1, et seq.

6. This action involves Defendants' manufacture, use, sale, offer for sale, and/or
importation into the United States of infringing products, methods, processes,
services and systems that incorporate certain memory chips and components that
infringe one or more of the claims of the Patents-in-Suit.

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JURISDICTION AND VENUE

7. This Court has original jurisdiction over the subject matter of this Complaint under 28 U.S.C. §§ 1331 and 1338(a) because this action arises under the patent laws of the United States, including 35 U.S.C. §§ 271, et seq.

8. Defendants are subject to personal jurisdiction in this judicial district because Defendants regularly transact business in this judicial district by, among other things, offering Defendants' products and services to customers, business affiliates and partners located in this judicial district. In addition, Defendants have committed acts of direct infringement of one or more of the claims of one or more of the Patentsin-Suit in this judicial district.

9. Venue in this district is proper under 28 U.S.C. §§ 1400(b) and 1391(b) and (c), because Defendants are subject to personal jurisdiction in this district and have committed acts of infringement in this district. ACI has a regular and established place of business in this District. Specifically, ACI has an office in the City of Industry, California and has job postings recruiting employees to work at that location. ASUSTek is a foreign corporation organized under the laws of Taiwan, with a principal place of business in Taiwan. Accordingly, venue is proper in this District over Defendant.

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FACTUAL BACKGROUND

10.Longitude operates in one of the most dynamic segments of the international 20 21 knowledge-based economy. Longitude operates by partnering with patent owners to 22 prosecute and license patent portfolios. The company has also formed customized arrangements that combine exclusive licensing rights and ownership positions, and 23 it also has acquired patents outright from other global patent owners. Longitude has 24 the licensing rights to portfolios totaling nearly 4,000 semiconductor and computer 25 memory patents and patent applications originally filed by well-known technology 26 companies. 27

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11.Longitude is the owner by assignment of the patents-in-suit.

12.Longitude has licensed the patents-in-suit to a majority of the worldwide memory industry responsible for solid state memory devices used in products sold in the United States, including SK Hynix, Kingston, Winbond, Micron, Samsung Electronics and Kioxia (formerly the memory division of Toshiba).

13.One major player in the industry that has refused to license the Patent-in-Suit is Western Digital Corporation ("Western Digital"). Western Digital is a computer hard disk drive manufacturer and data storage company. Western Digital designs, manufactures, and sells data technology products, including storage devices, data center systems, and cloud storage services. Longitude is informed and believes that Western Digital acquired SanDisk in 2016.

14.Since February 2018, Longitude has requested that Western Digital negotiate licenses for patents (including the Patents-in-Suit) that it is infringing, but Western Digital has refused to negotiate, claiming that Longitude may not assert its licensing rights as a result of covenants in two contracts between Western Digital and third parties that have never owned any of the patents-in-suit. Those contracts do not apply to Longitude, but Western Digital nonetheless contended that it could only be sued after every other market participant (apparently including Western Digital's customers) was sued.

19 15.Longitude initiated an arbitration claim against Western Digital for
20 declaratory relief concerning Western Digital's interpretation of the agreements.
21 Western Digital objected to the jurisdiction of the arbitration tribunal to avoid any
22 consideration of the merits of contract arguments.

16.After the arbitration against Western Digital was dismissed on jurisdictional
grounds, Longitude gave notice to Defendants that they were infringing the patentsin-suit by letter dated September 6, 2022. This letter included a table that identified
a number of products that were believed to infringe the patents. Among other things,
the letter stated:

A number of Asus products incorporate and use features and functionality covered by Longitude patents, including, for example, $\frac{3}{3}$

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	Case 8:23-cv-00033 Document 1 Filed 01/09/23 Page 5 of 49 Page ID #:5			
1 2 3 4 5	 the patents and exemplary products identified in the attached table ("Table 1"). In reviewing the Table, you will note that the infringing products contain devices manufactured by Western Digital Corporation ("Western Digital"). While our normal approach is to engage with, and license, suppliers such as Western Digital rather than their customers, Western Digital has refused to engage in any licensing discussions. Consequently, we are contacting Western Digital customers who are selling products that infringe Longitude patents. 17.Defendants did not take a license following receipt of this letter and continued 			
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	to infringe as stated in the letter. As of the filing of this Complain, Defendants have not responded in any manner to Longitude.			
	18.Among the other products referenced in the letter was the ASUS VivoBook computer as well as numerous other ASUS computers, laptops, and tablets having			
	Western Digital SSDs. THE PATENTS-IN-SUIT			
	 19.Longitude is the owner by assignment of the Patents-in-Suit. Longitude owns all rights to the Patents-in-Suit, including the right to enforce the Patents-in-Suit. 20.All maintenance fees for the Patents-in-Suit have been timely paid, and there are no fees currently due. 21.United States Patent No. 7,697,369, entitled "System with Controller and Memory," issued on April 13, 2010 from United States Patent Application No. 11/759,862 filed on June 7, 2007. 22.United States Patent No. RE43,539, entitled "Output Buffer Circuit and Integrated Semiconductor Circuit Device With Such Output Buffer Circuit," issued on July 24, 2012 from United States Patent Application No. 11/798,773 filed on May 16, 2007. The '539 Patent is a re-issue of U.S. Patent No. 6,894,547, which issued on May 17, 2005 from United States Patent Application No. 10/320,059 filed December 16, 2002. 			
23 26 27	23.United States Patent No. 9,379,233, entitled "Semiconductor Device," issued on June 28, 2016 from United States Patent Application No. 14/872,844 filed			

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October 1, 2015.

<u>COUNT I</u>

(DEFENDANTS' INFRINGEMENT OF THE '369 PATENT)

24.Paragraphs 1 through 23 are incorporated by reference as if fully restated herein.

25.United States Patent No. 7,697,369, entitled "System with Controller and Memory," issued on April 13, 2010 from United States Patent Application No. 11/759,862 filed on June 7, 2007.

26.Longitude is the owner of the '369 patent with full rights to pursue recovery of royalties for damages for infringement, including full rights to recover past and future damages.

27.Each claim of the '369 patent is valid, enforceable, and patent-eligible.

28.Longitude and its predecessors in interest have satisfied the requirements of 35 U.S.C. § 287(a) with respect to the '369 patent, and Longitude is entitled to damages for Defendants' past infringement. Among other things, Longitude provided actual notice of infringement to the component supplier, Western Digital.

16 29.Defendants have directly infringed (literally and equivalently) and induced 17 others to infringe the '369 patent by making, using, selling, offering for sale, or importing products that infringe the claims of the '369 patent and by inducing others 18 to infringe the claims of the '369 patent without a license or permission from 19 Longitude. These products include without limitation all Asus VivoBook computers 20 21 (e.g., model F512DA-RH36), all other Asus computers, laptops, and tablets having 22 Western Digital PC SN530 NVMe SSDs, Western Digital SSDs, and/or Western Digital NAND memory chips and all versions and variations of them offered for sale 23 since the issuance of the '369 patent. 24

25 30.A non-limiting example of Defendants' infringement is the ASUS VivoBook computer which infringes at least claim 1 of the '369 patent. Exemplary photographs of the ASUS VivoBook computer, and its packaging are set forth below: 27

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COMPLAINT

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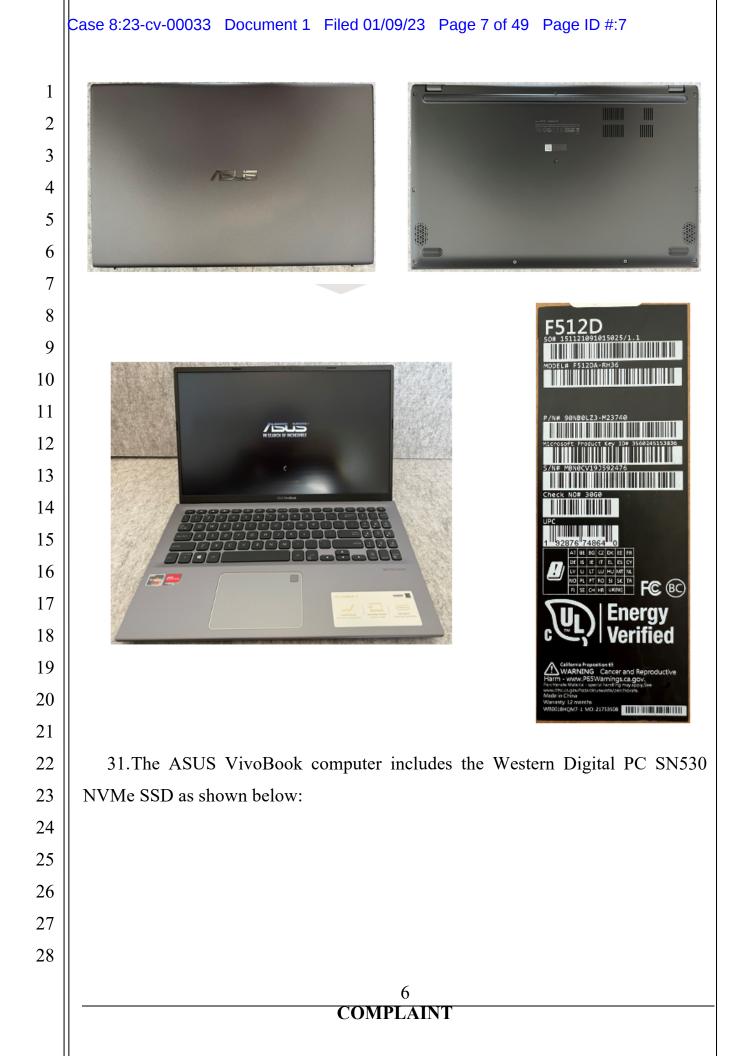
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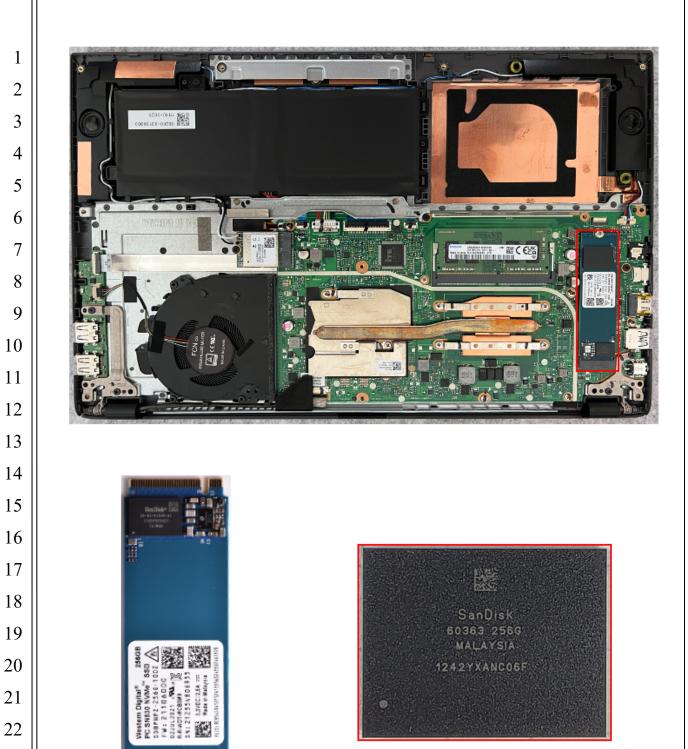
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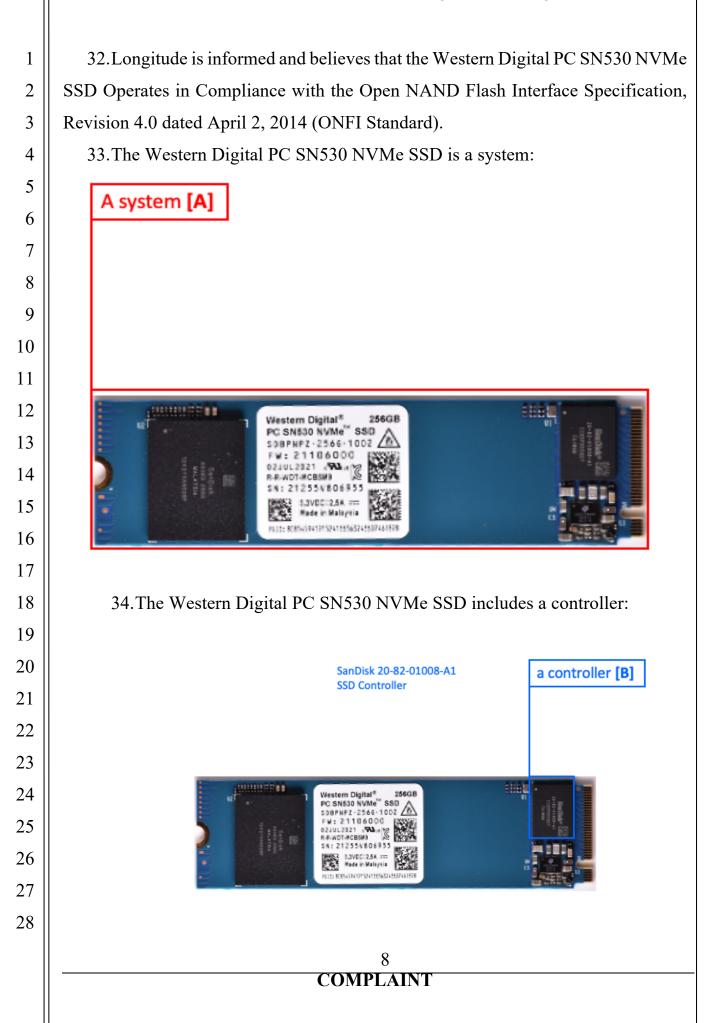


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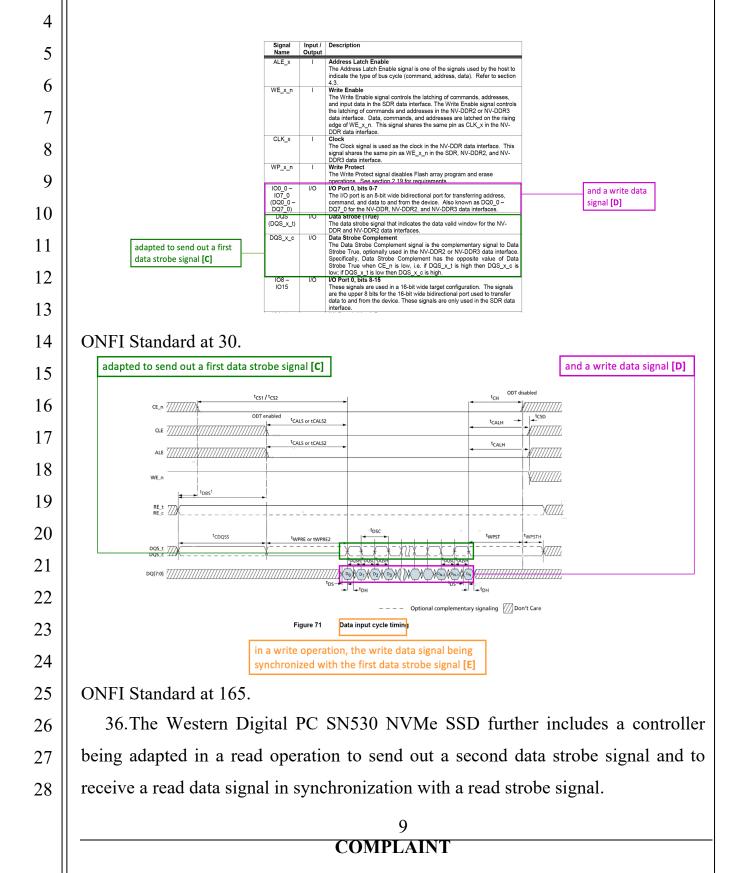


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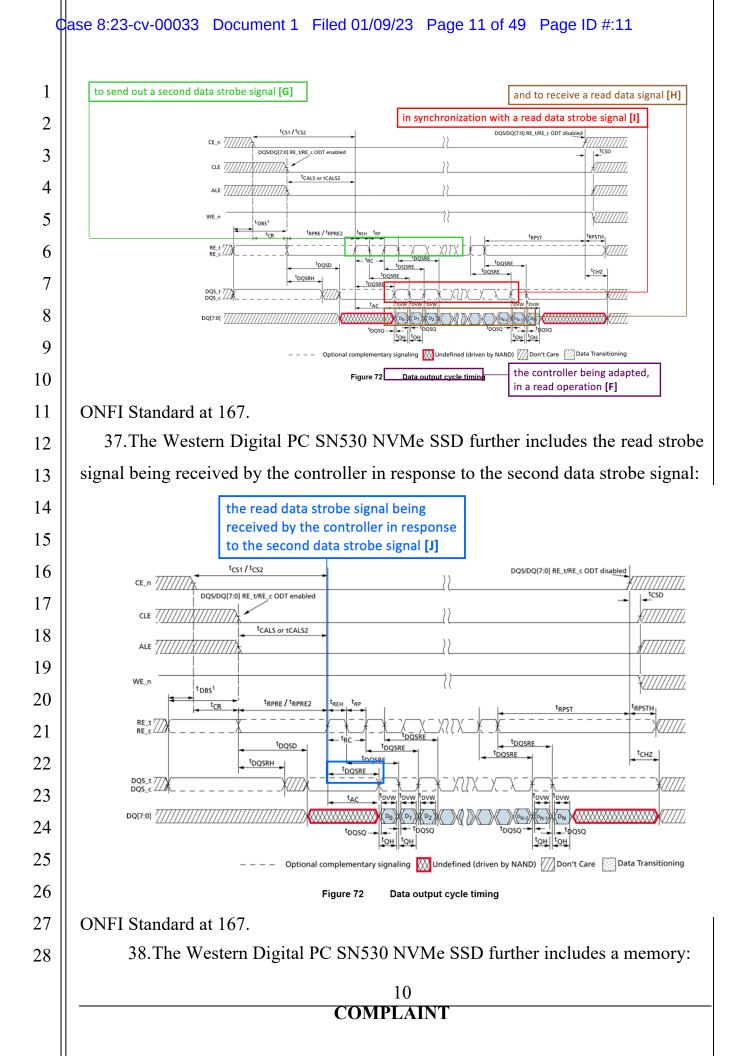


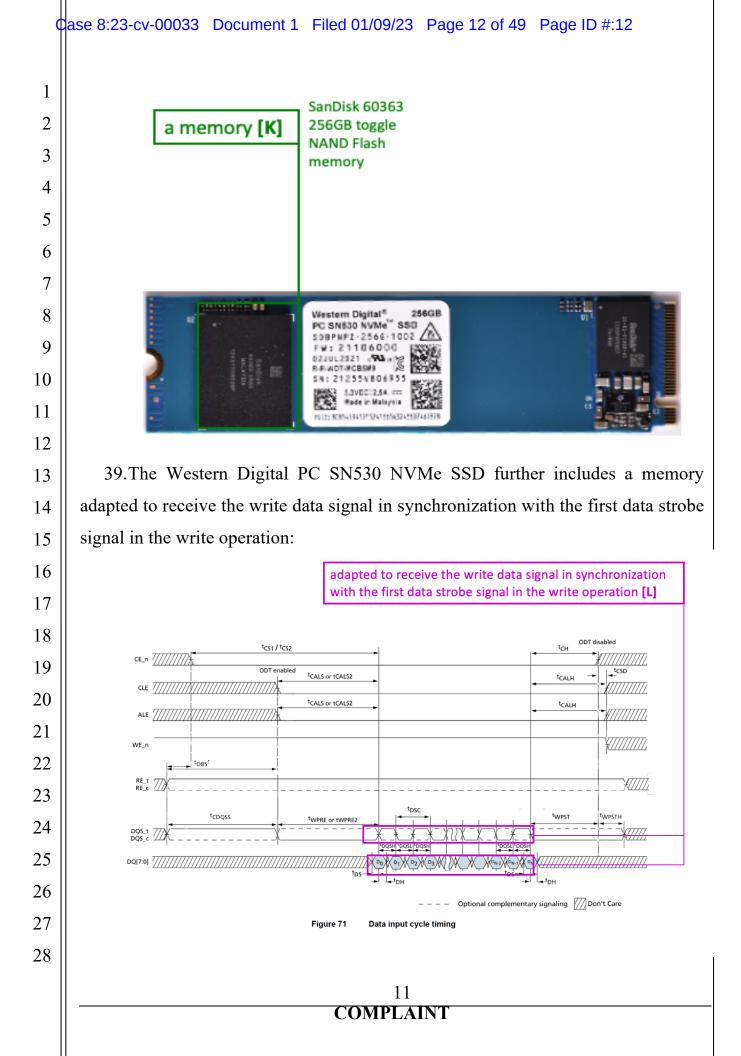
35.The Western Digital PC SN530 NVMe SSD includes a controller that is adapted to send out a first strobe signal and a write data signal in a write operation, the write data signal being synchronized with the first data strobe signal:



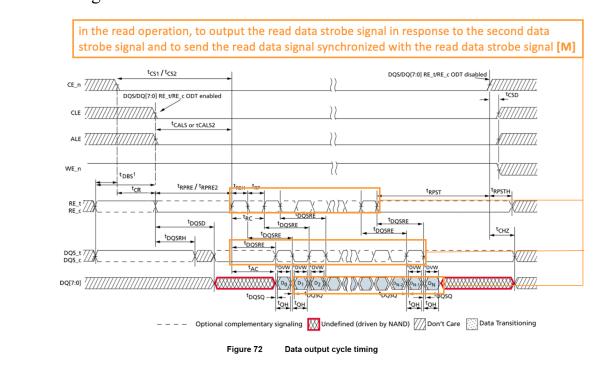
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40.The Western Digital PC SN530 NVMe SSD further includes a memory adapted, in the read operation, to output the read data strobe signal in response to the second data strobe signal and to send the read data signal synchronized with the read data strobe signal:



41.Defendants actively, knowingly, and intentionally induce, and continue to actively, knowingly, and intentionally induce, infringement of the '369 patent under 35 U.S.C. §271(b) by their customers and end users.

42.Defendants have had knowledge of and notice of the '369 patent and their
infringement since at least September 6, 2022 when Longitude gave Defendants
notice of their infringing actions. In any event, Defendants have had knowledge and
notice of the '369 patent since at least the filing of this complaint.

43.Defendants have induced their customers and end users to infringe the '369
patent by using their products as shown above. For example, Defendants encourage
their customers and end users to perform infringing methods by the very nature of
the products.

COMPLAINT

44.Defendants specifically intend their customers and/or end users infringe the '369 patent, either literally or by the doctrine of equivalents, because Defendants have known about the '369 patent and how Defendants' products infringe the claims of the '369 patent but Defendants have not taken steps to prevent infringement by their customers and/or end users. Accordingly, Defendants have acted with the specific intent to induce infringement of the '369 patent.

45.Accordingly, Defendants have induced, and continue to induce, infringement of the '369 patent under 35 U.S.C. §271(b).

9 46.As discussed above, Defendants have had knowledge of and notice of the '369
10 patent and its infringement since at least September 6, 2022. Despite this
11 knowledge, Defendants continue to commit tortious conduct by way of patent
12 infringement.

47.Defendants have been and continue to infringe one or more of the claims of the '369 patent through the aforesaid acts.

48.Defendants have committed these acts of infringement without license or authorization.

49.Plaintiff is entitled to recover damages adequate to compensate for theinfringement.

50.Defendants have and continue to infringe the '369 patent, acting with an
objectively high likelihood that their actions constitute infringement of the '369
patent. Defendants have known or should have known of this risk at least as early
as September 6, 2022. Accordingly, Defendants' infringement of the '369 patent has
been and continues to be willful.

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(DEFENDANTS' INFRINGEMENT OF THE '539 PATENT)

13 COMPLAINT

COUNT II

26 51.Paragraphs 1 through 50 are incorporated by reference as if fully restated
27 herein.

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52.United States Patent No. RE43,539, entitled "Output Buffer Circuit and Integrated Semiconductor Circuit Device With Such Output Buffer Circuit," issued on July 24, 2012 from United States Patent Application No. 11/798,773 filed on May 16, 2007. The '539 Patent is a re-issue of U.S. Patent No. 6,894,547, which issued on May 17, 2005 from United States Patent Application No. 10/320,059 filed December 16, 2002.

53.Longitude is the owner of the '539 patent with full rights to pursue recovery of royalties for damages for infringement, including full rights to recover past and future damages.

54.Each claim of the '539 patent is valid, enforceable, and patent-eligible.

55.Longitude and its predecessors in interest have satisfied the requirements of 35 U.S.C. § 287(a) with respect to the '539 patent, and Longitude is entitled to damages for Defendants' past infringement. Among other things, Longitude provided actual notice of infringement to the component supplier, Western Digital.

56.Defendants have directly infringed (literally and equivalently) and induced 15 16 others to infringe the '539 patent by making, using, selling, offering for sale, or 17 importing products that infringe the claims of the '539 patent and by inducing others to infringe the claims of the '539 patent without a license or permission from 18 Longitude. These products include without limitation all Asus VivoBook computers 19 (e.g., model F512DA-RH36), all other Asus computers, laptops, and tablets having 20 21 Western Digital PC SN530 NVMe SSDs, Western Digital SSDs, and/or Western 22 Digital NAND memory chips and all versions and variations of them offered for sale since the issuance of the '369 patent. 23

57.A non-limiting example of Defendants' infringement is the Asus VivoBook computer which infringes at least claim 1 of the '539 patent. Exemplary photographs of the Asus VivoBook, and its packaging are set forth below:

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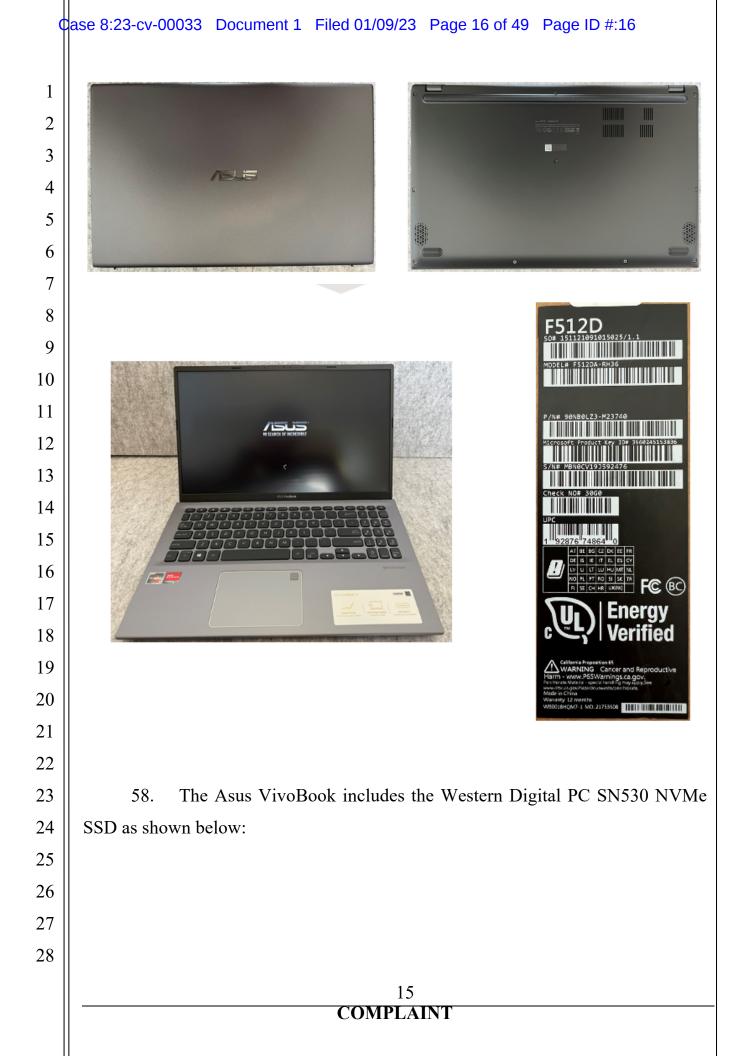
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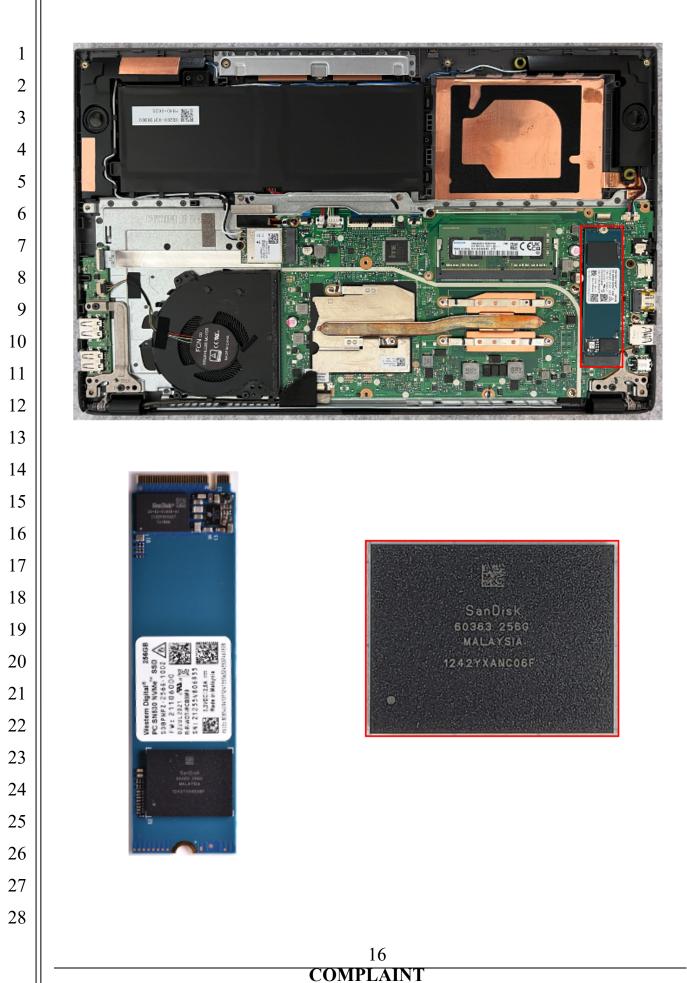
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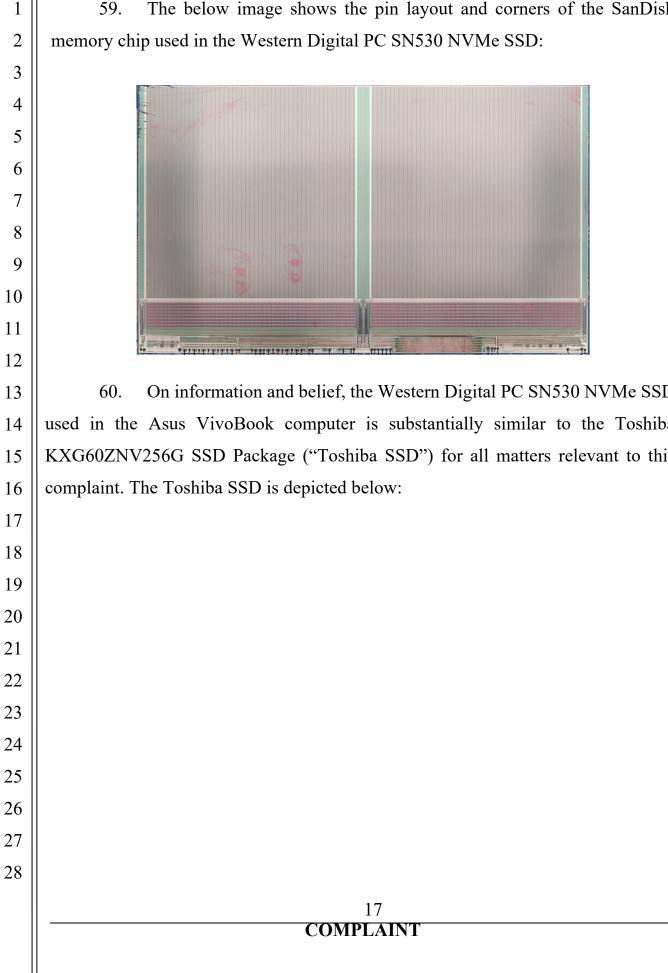


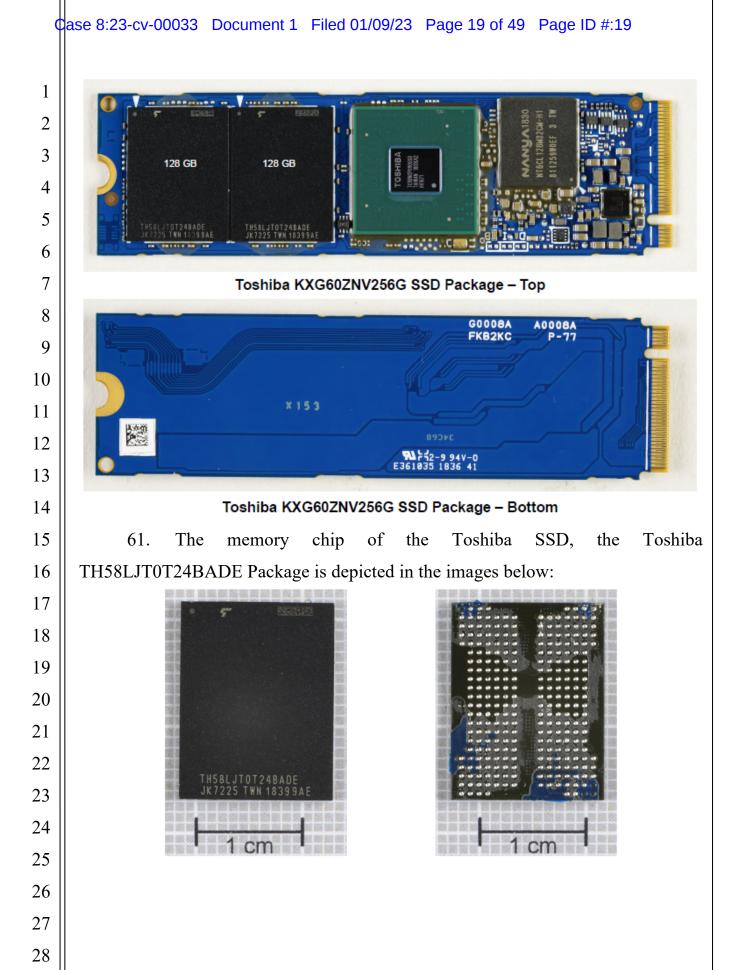
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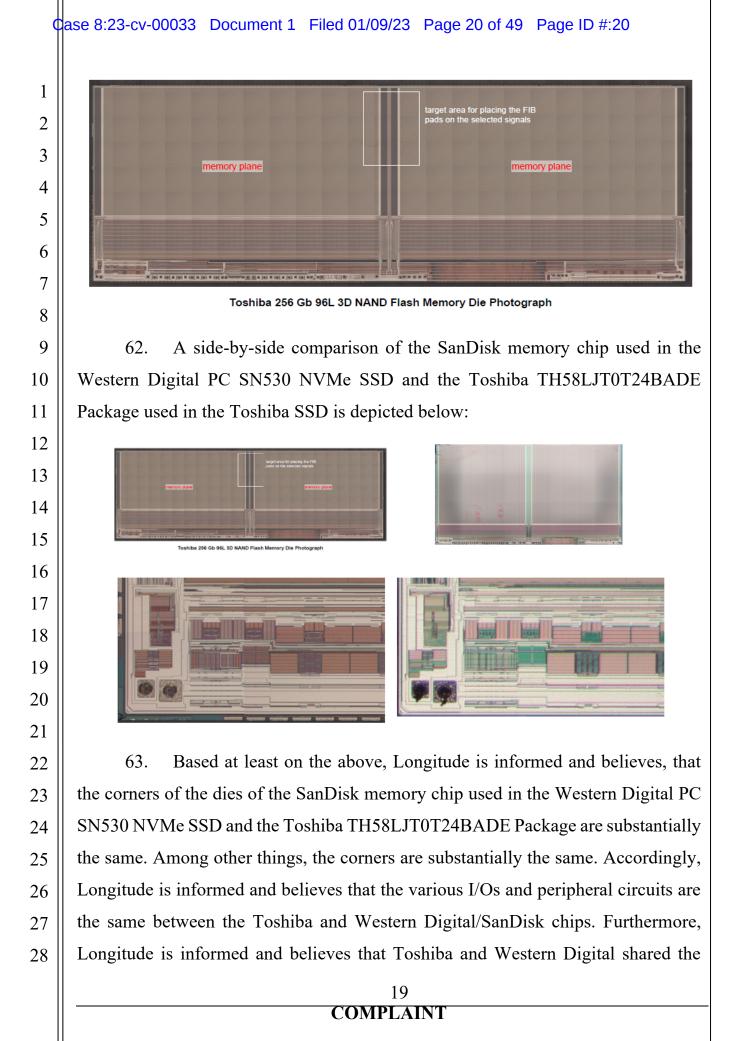


59. The below image shows the pin layout and corners of the SanDisk

60. On information and belief, the Western Digital PC SN530 NVMe SSD used in the Asus VivoBook computer is substantially similar to the Toshiba KXG60ZNV256G SSD Package ("Toshiba SSD") for all matters relevant to this complaint. The Toshiba SSD is depicted below:

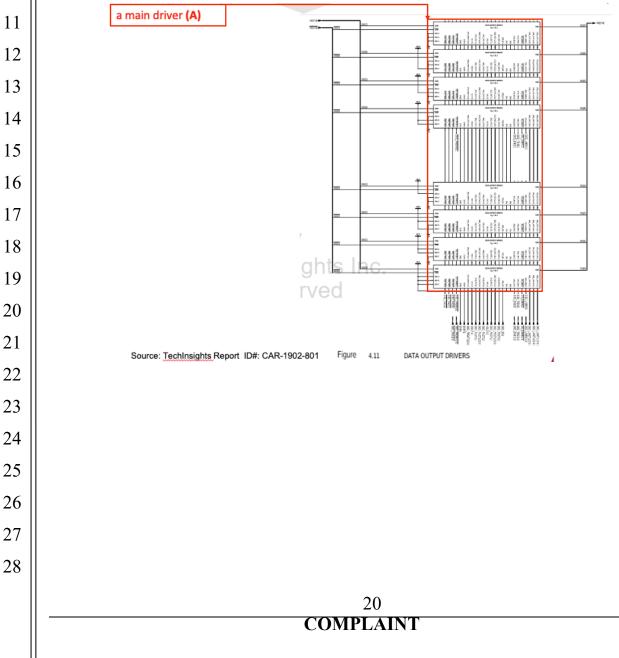






designs for 96 layer chips. Accordingly, the SanDisk memory chip is substantially 1 the same as the Western Digital PC SN530 NVMe SSD and the Toshiba 2 TH58LJT0T24BADE Package. For this reason, Longitude is informed and believes 3 analysis concerning technical other 4 that documents and the Toshiba TH58LJT0T24BADE Package also describe the layout and functionality of the 5 Western Digital PC SN530 NVMe SSD. 6

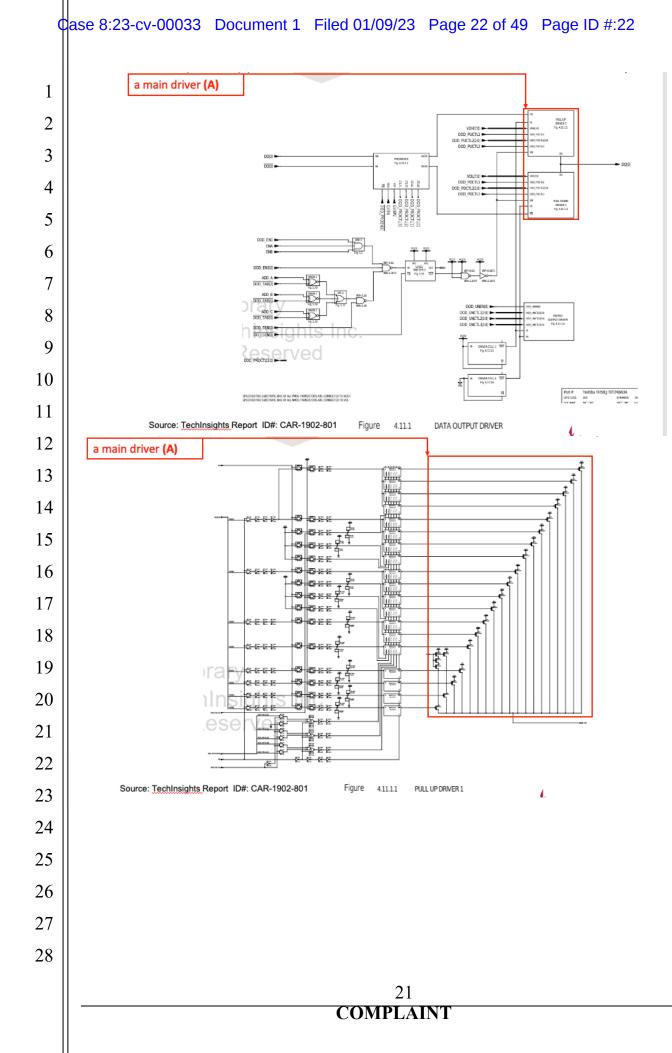
64. The Western Digital PC SN530 NVMe SSD used in the ASUS VivoBook computer includes an output buffer circuit for outputting data in the form of an input pulse train at a predetermined output impedance and slew rate comprising a main driver:



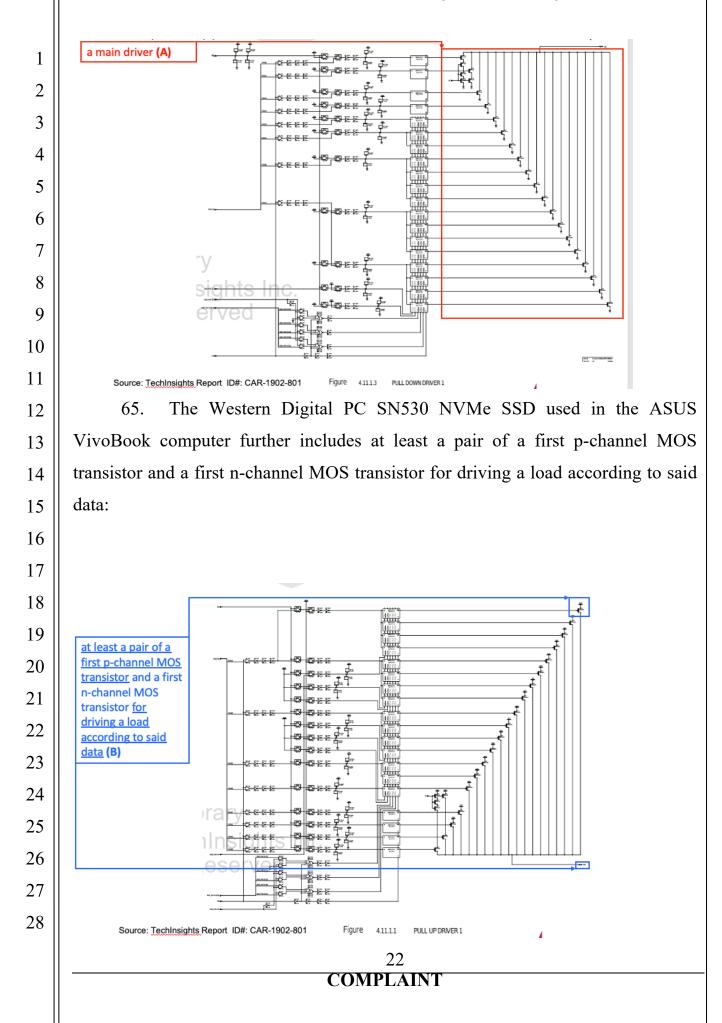
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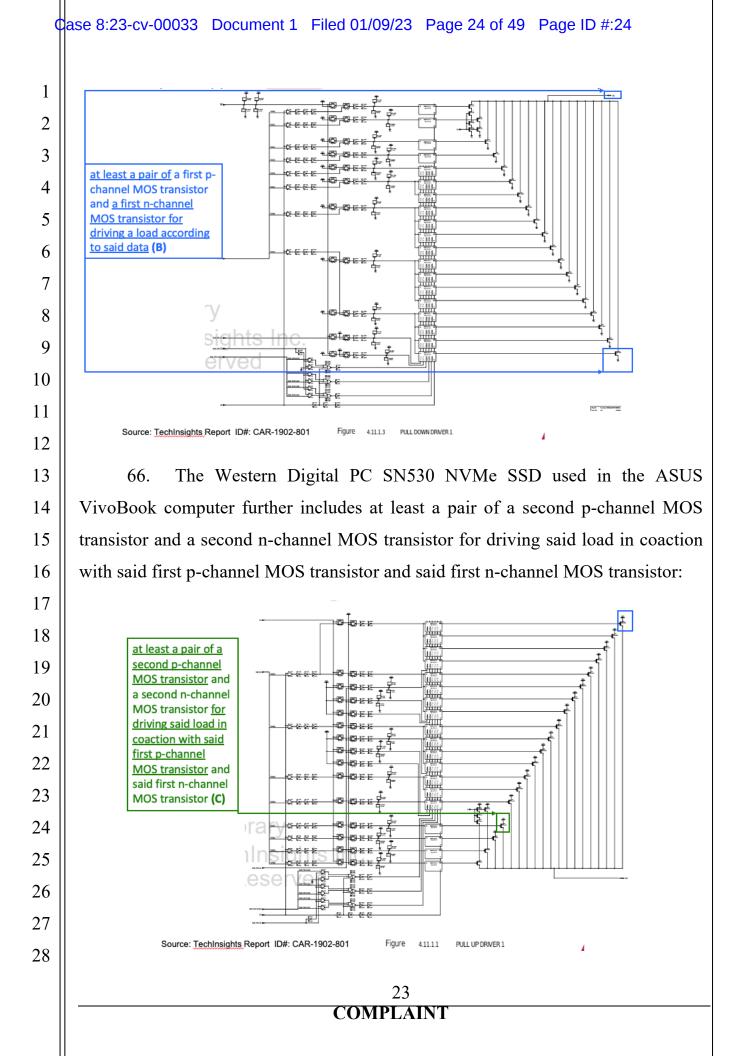
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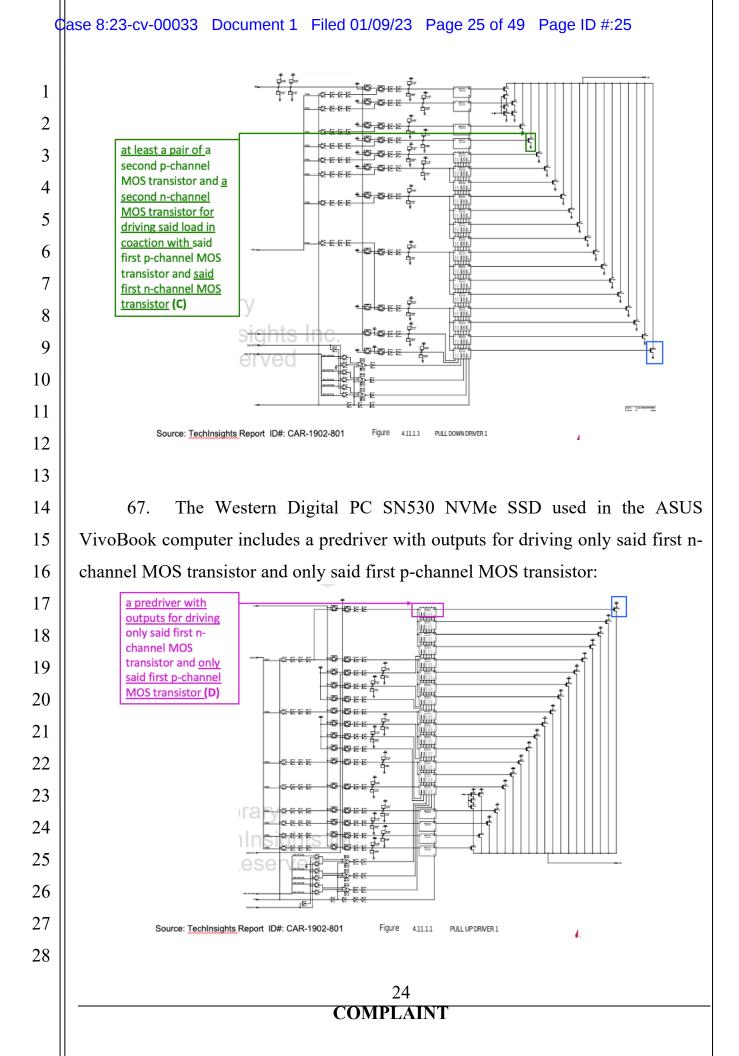
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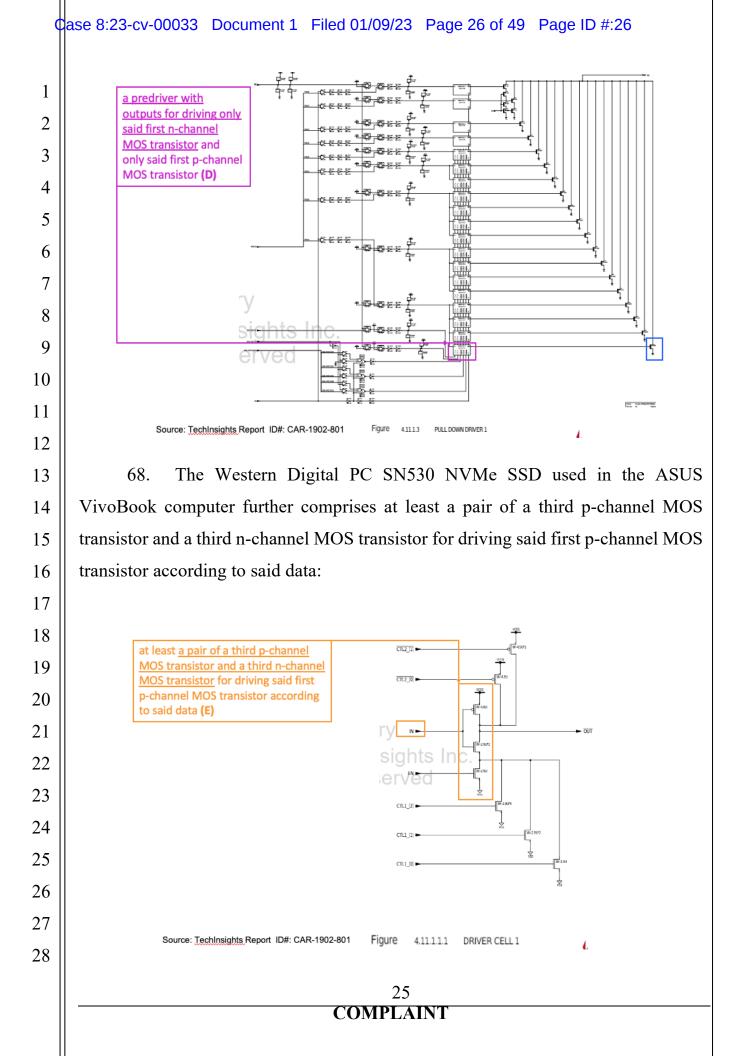


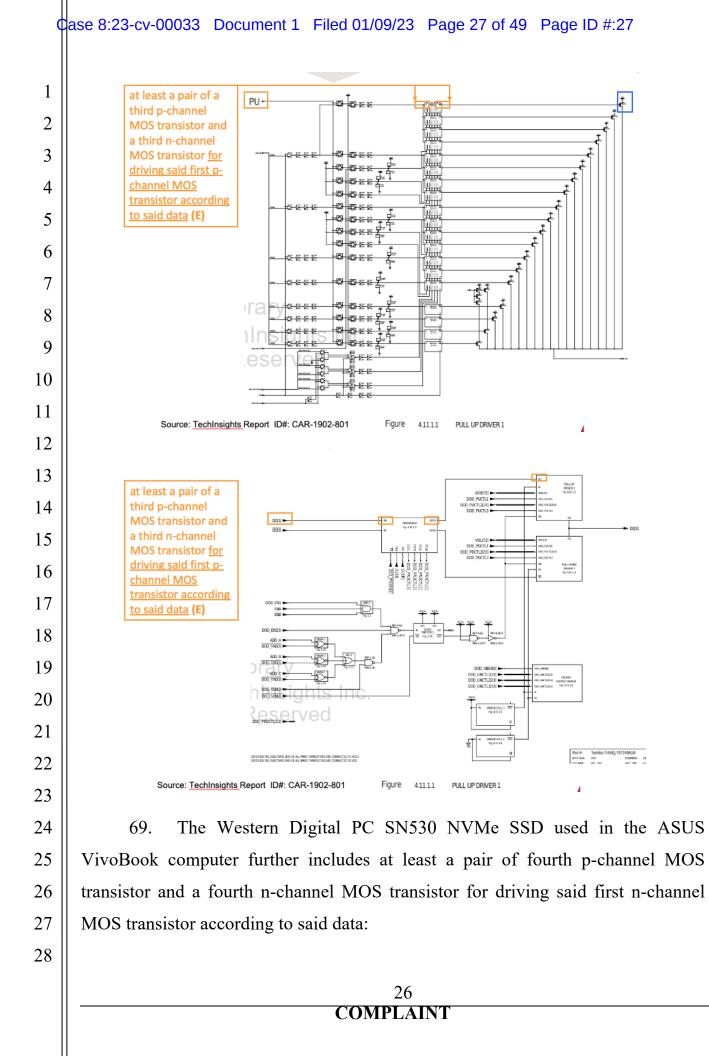
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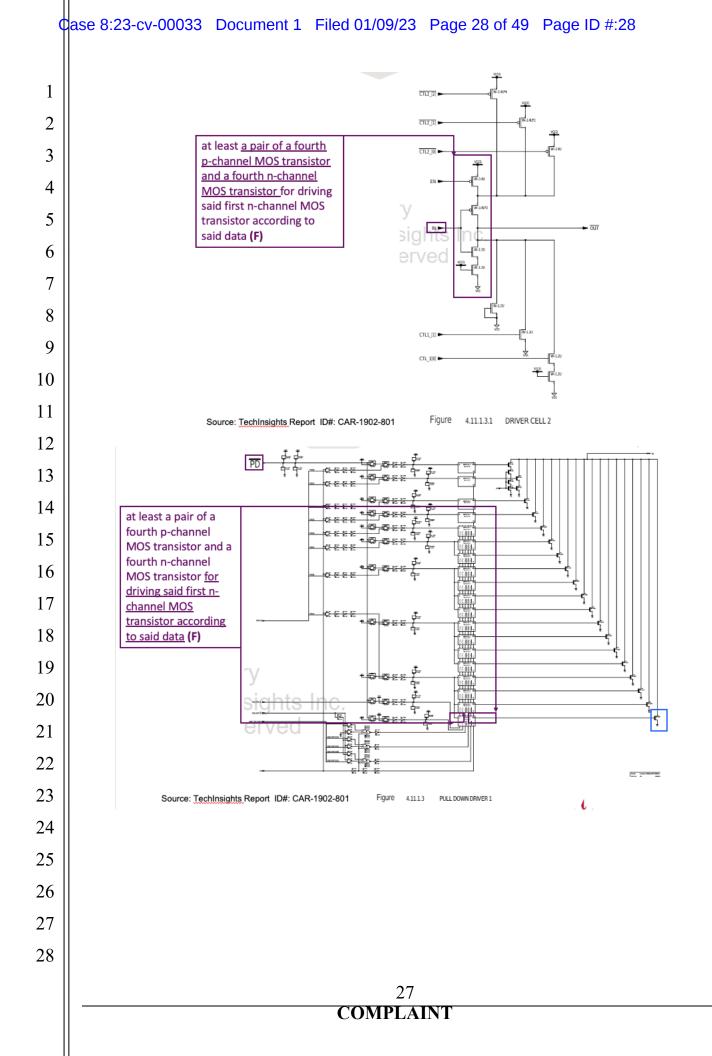


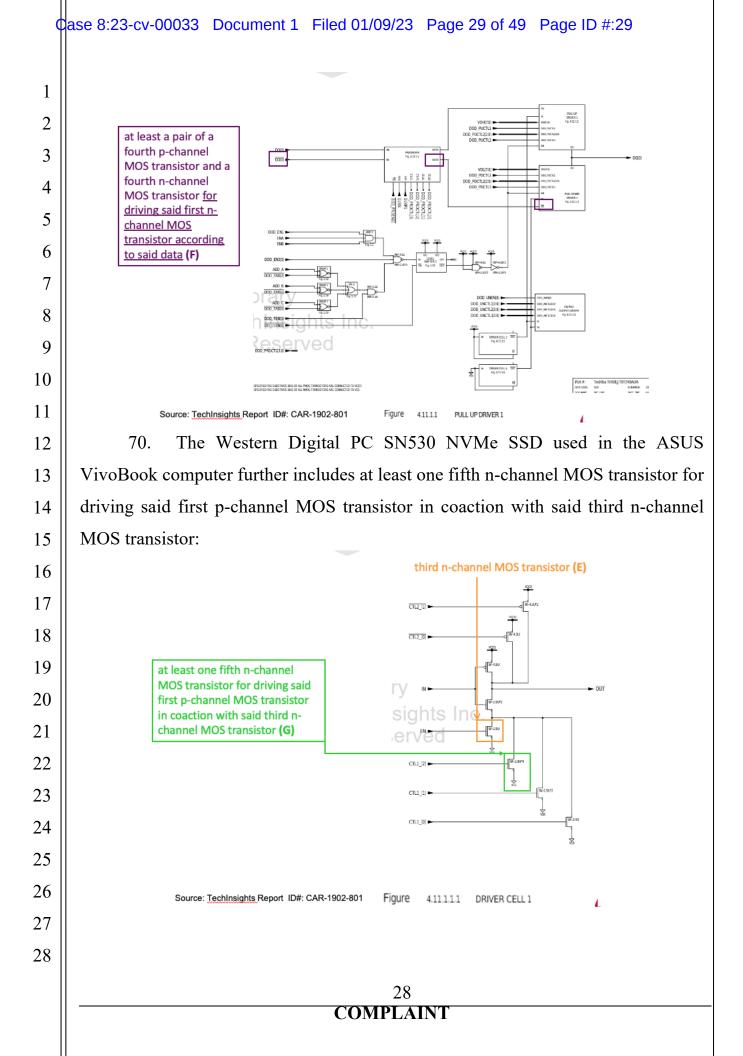


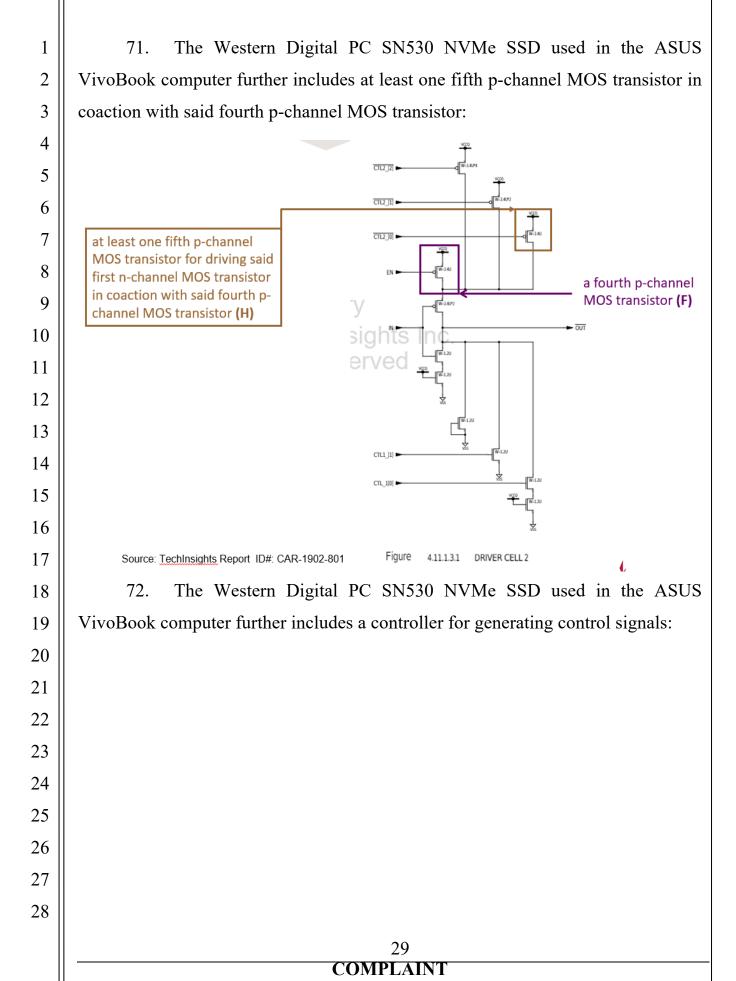


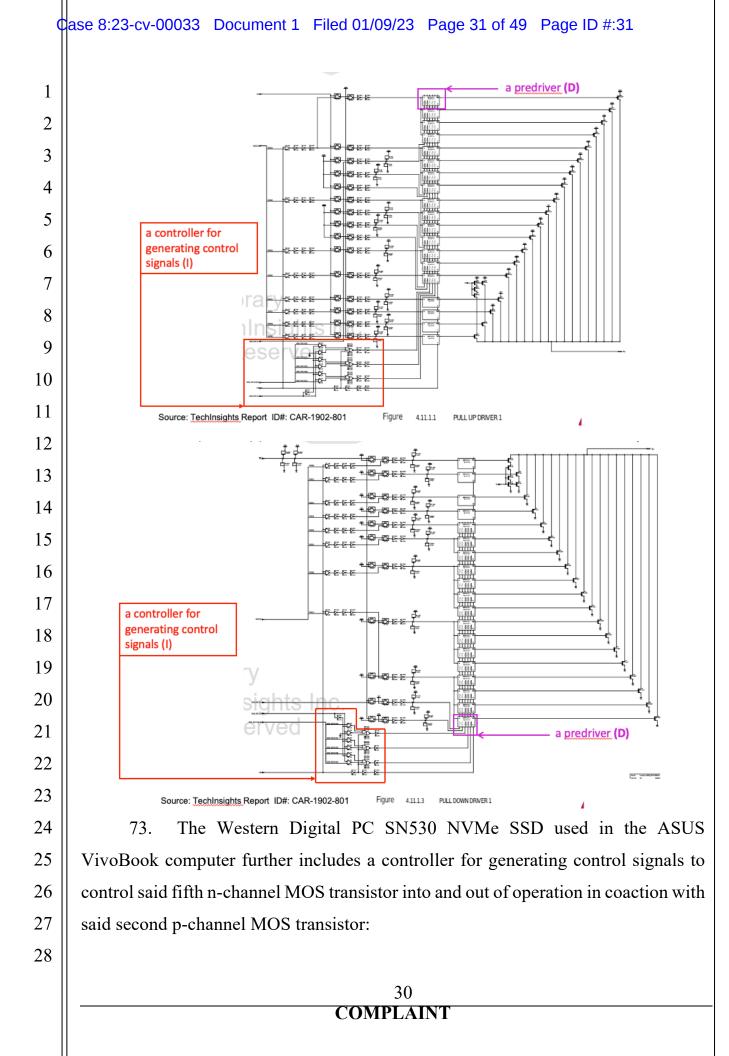


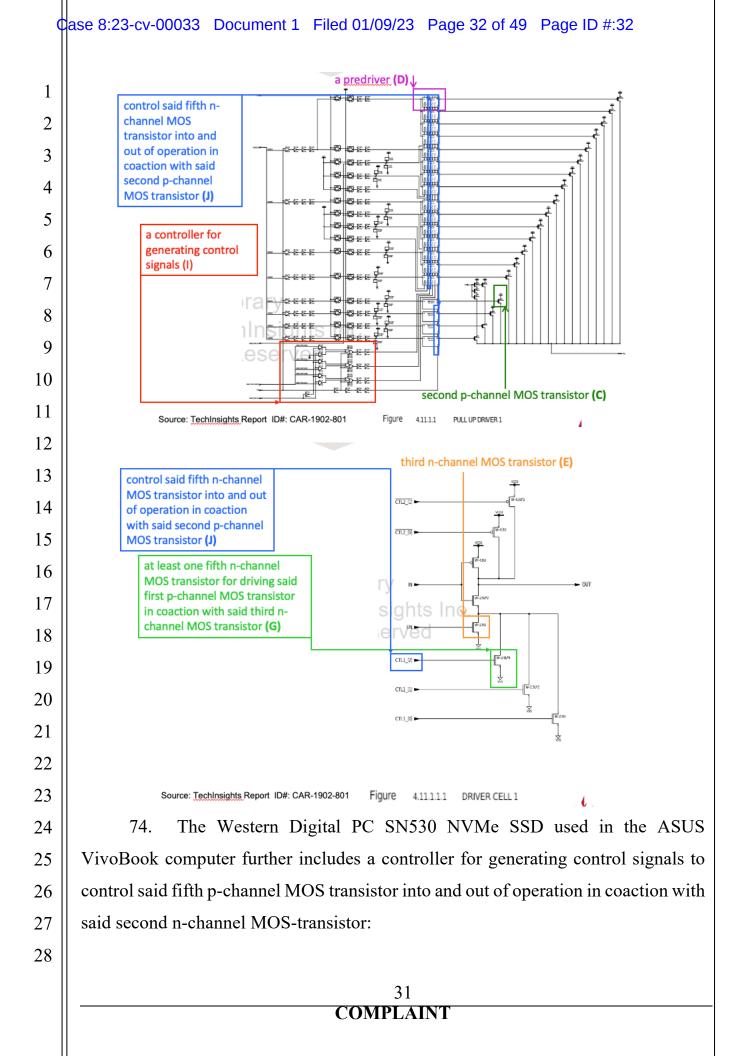


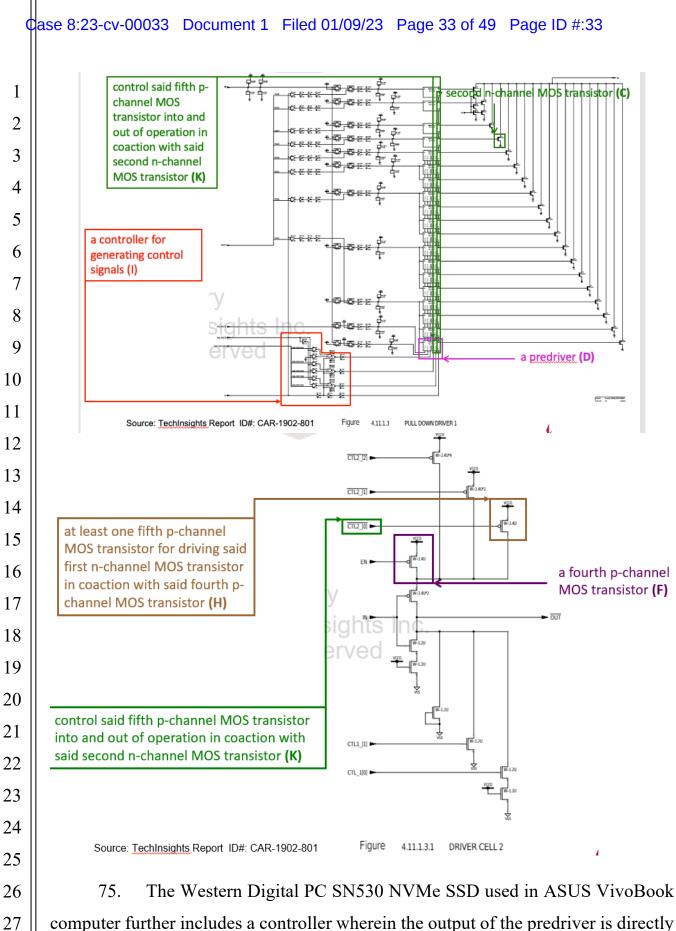


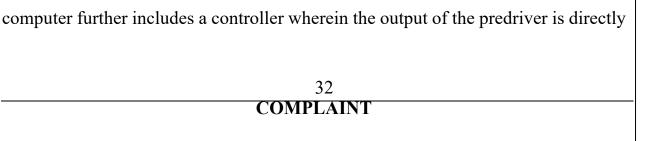




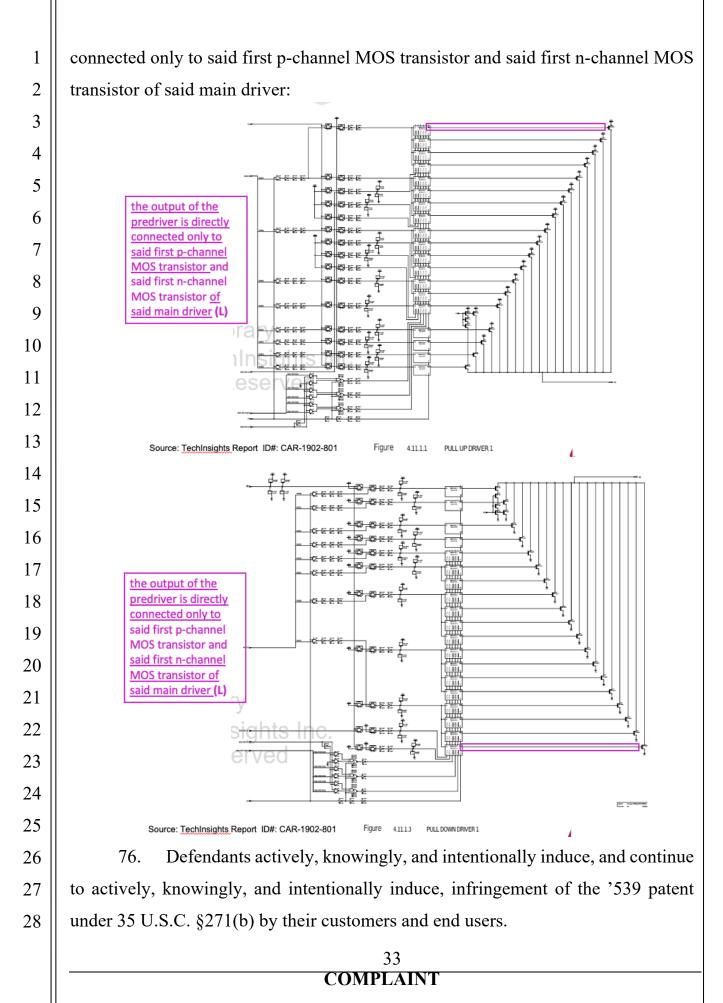












77.Defendants have had knowledge of and notice of the '539 patent and their infringement since at least September 6, 2022 when Longitude gave Defendants notice of their infringing actions. In any event, Defendants have had knowledge and notice of the '539 patent since at least the filing of this complaint.

78.Defendants have induced their customers and end users to infringe the '539 patent by using their products as shown above. For example, Defendants encourage their customers and end users to perform infringing methods by the very nature of the products.

79.Defendants specifically intend their customers and/or end users infringe the '539 patent, either literally or by the doctrine of equivalents, because Defendants have known about the '539 patent and how Defendants' products infringe the claims of the '539 patent but Defendants have not taken steps to prevent infringement by their customers and/or end users. Accordingly, Defendants have acted with the specific intent to induce infringement of the '369 patent.

80. Accordingly, Defendants have induced, and continue to induce, infringement of the '539 patent under 35 U.S.C. §271(b).

81.As discussed above, Defendants have had knowledge of and notice of the '539 17 patent and its infringement since at least September 6, 2022. 18 Despite this knowledge, Defendants continue to commit tortious conduct by way of patent 19 20 infringement.

21 82.Defendants have been and continue to infringe one or more of the claims of 22 the '539 patent through the aforesaid acts.

83.Defendants have committed these acts of infringement without license or 23 authorization. 24

25 84.Plaintiff is entitled to recover damages adequate to compensate for the infringement.

85.Defendants have and continue to infringe the '539 patent, acting with an 27 28 objectively high likelihood that their actions constitute infringement of the '539

34 COMPLAINT

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patent. Defendants have known or should have known of this risk at least as early as September 6, 2022. Accordingly, Defendants' infringement of the '539 patent has been and continues to be willful.

COUNT III

(DEFENDANTS' INFRINGEMENT OF THE '233 PATENT)

86.Paragraphs 1 through 85 are incorporated by reference as if fully restated herein.

87.United States Patent No. 9,379,233, entitled "Semiconductor Device," issued on June 28, 2016 from United States Patent Application No. 14/872,844 filed October 1, 2015.

88.Longitude is the owner of the '233 patent with full rights to pursue recovery of royalties for damages for infringement, including full rights to recover past and future damages.

89.Each claim of the '233 patent is valid, enforceable, and patent-eligible.

90.Longitude and its predecessors in interest have satisfied the requirements of 35 U.S.C. § 287(a) with respect to the '233 patent, and Longitude is entitled to damages for Defendants' past infringement. Among other things, Longitude provided actual notice of infringement to the component supplier, Western Digital.

91.Defendants have directly infringed (literally and equivalently) and induced 19 others to infringe the '233 patent by making, using, selling, offering for sale, or 20 21 importing products that infringe the claims of the '233 patent and by inducing others 22 to infringe the claims of the '233 patent without a license or permission from Longitude. These products include without limitation all Asus VivoBook computers 23 (e.g., model F512DA-RH36), all other Asus computers, laptops, and tablets having 24 Western Digital PC SN530 NVMe SSDs, Western Digital SSDs, and/or Western 25 26 Digital 3D NAND memory chips and all versions and variations of them offered for sale since the issuance of the '369 patent. 27

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92.A non-limiting example of Defendants' infringement is the SanDisk memory chip contained within the Asus VivoBook computer which infringes at least claim 1 of the '369 patent. Exemplary photographs of the Asus VivoBook, and its packaging are set forth below:

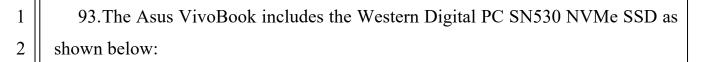
> COMPLAINT

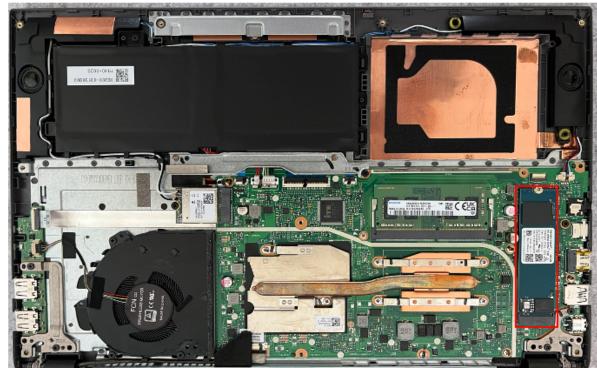


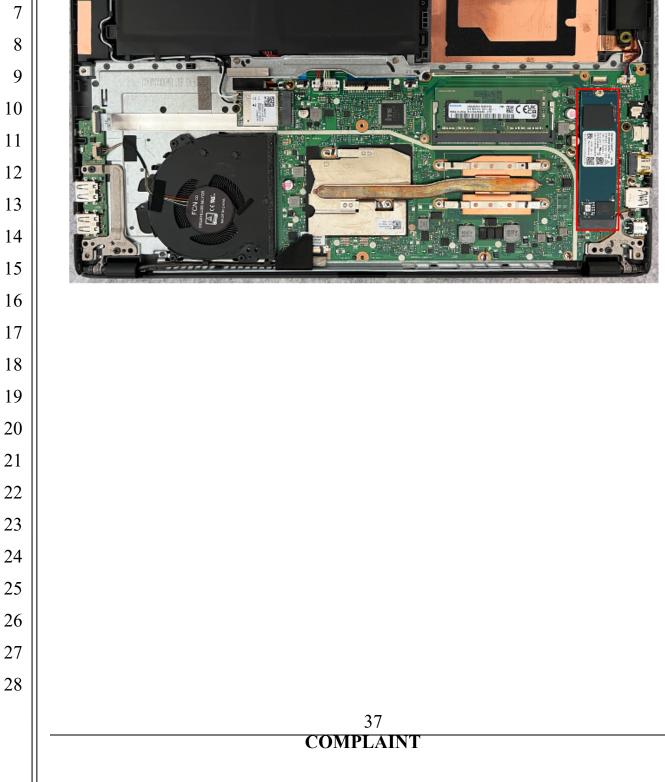


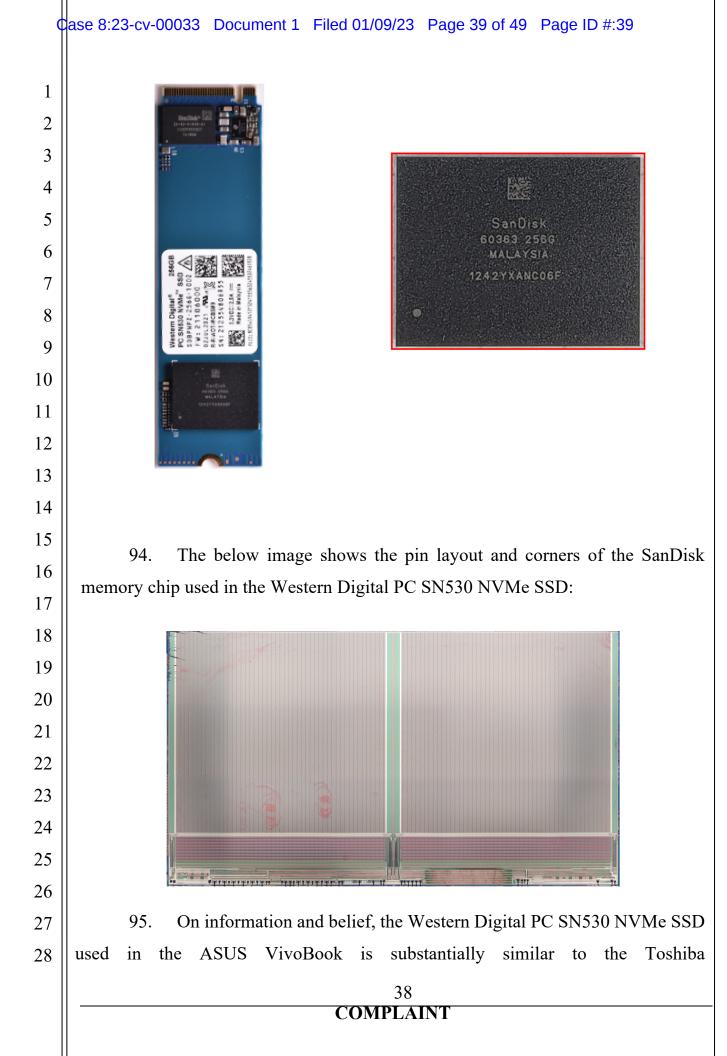


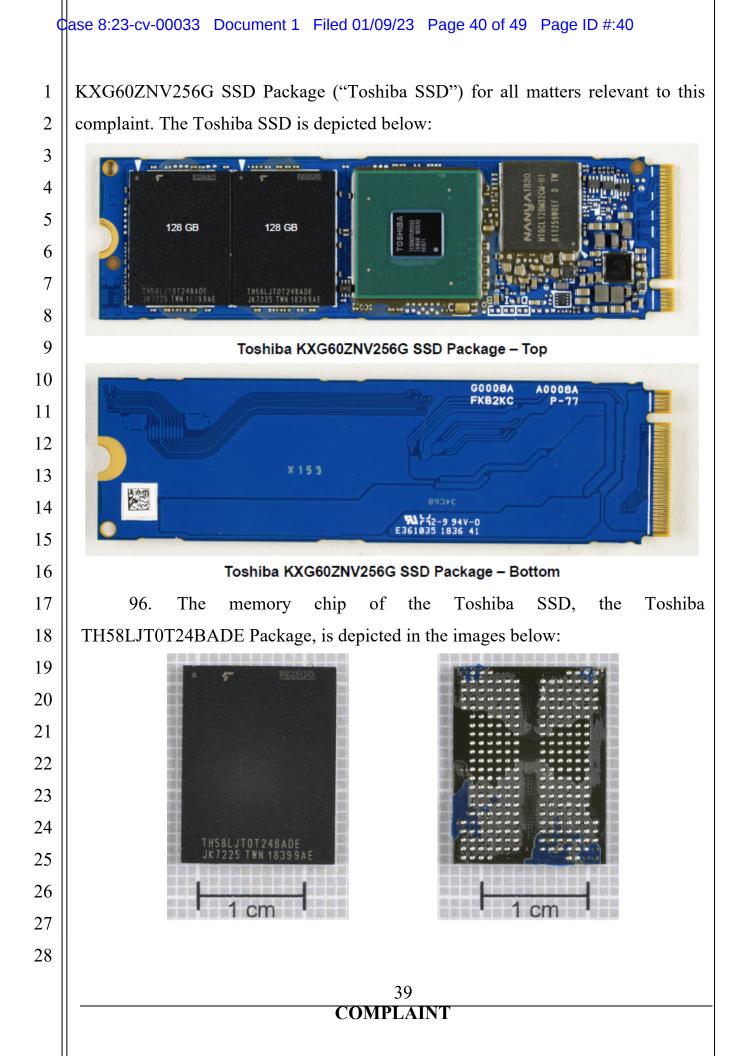


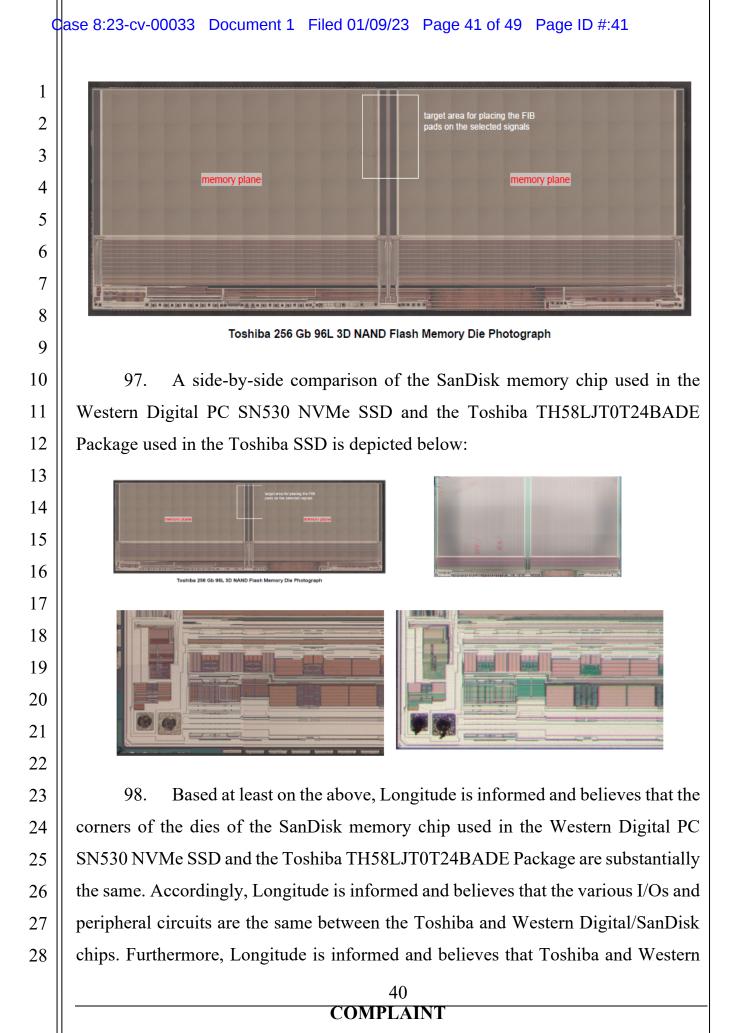






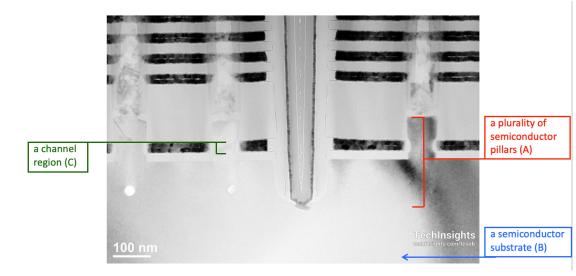




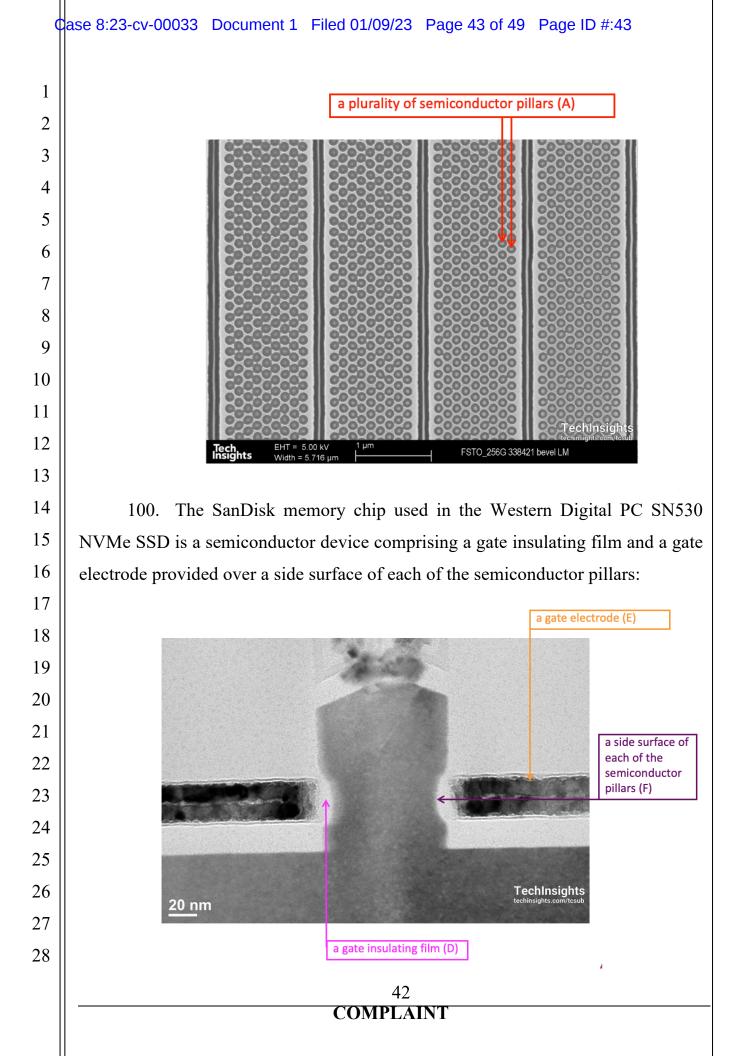


Digital shared the designs for 96 layer chips. As shown above, the SanDisk memory chip is substantially the same as the Western Digital PC SN530 NVMe SSD and the Toshiba TH58LJT0T24BADE Package. For this reason, Longitude is informed and believes that technical documents and other analysis concerning the Toshiba TH58LJT0T24BADE Package also describe the layout and functionality of the Western Digital PC SN530 NVMe SSD and the SanDisk memory chip therein.

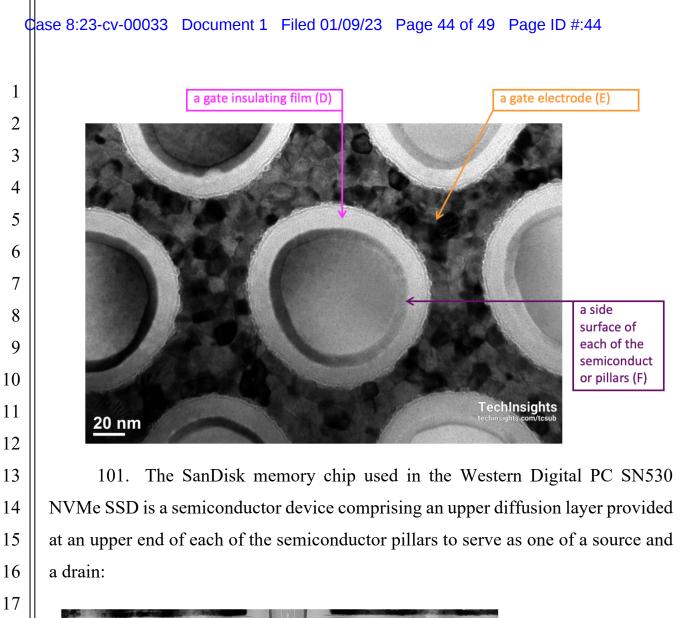
99. The SanDisk memory chip used in the Western Digital PC SN530 NVMe SSD is a semiconductor device comprising a plurality of semiconductor pillars provided to stand from a semiconductor substrate, each of the semiconductor pillars comprising a channel region:

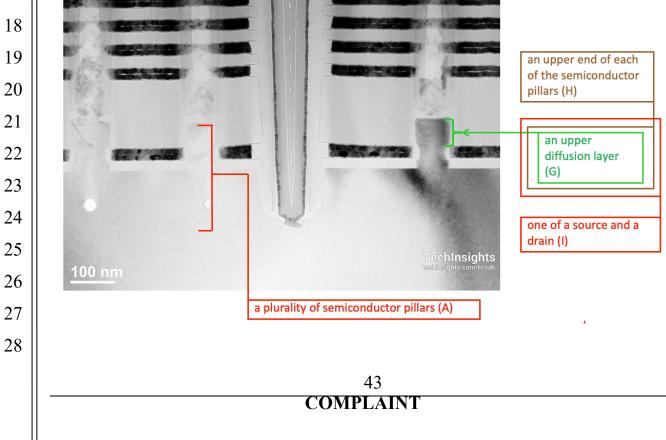


COMPLAINT

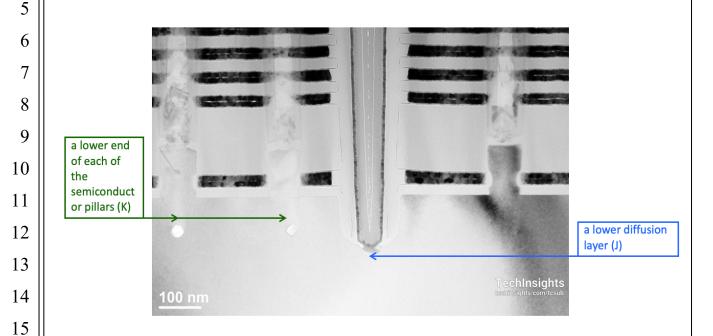


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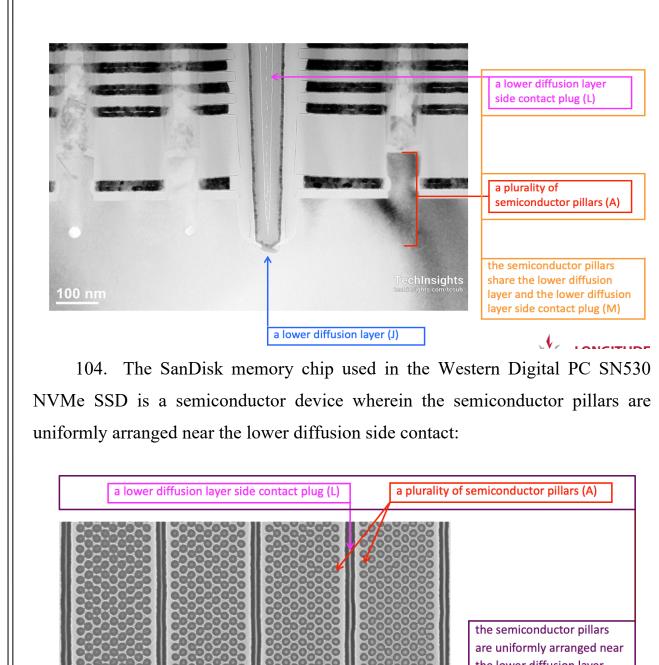




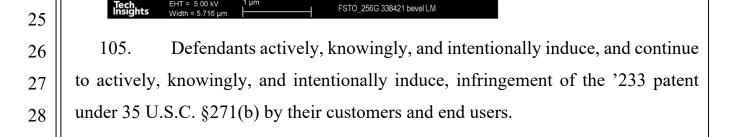
102. The SanDisk memory chip used in the Western Digital PC SN530 NVMe SSD is a semiconductor device comprising a lower diffusion layer operatively coupled to a lower end of each of the semiconductor pillars to serve as the other of the source and the drain:



103. The SanDisk memory chip used in the Western Digital PC SN530 NVMe SSD is a semiconductor device comprising a lower diffusion layer side contact plug connected to the lower diffusion layer, wherein the semiconductor pillars share the lower diffusion layer and the lower diffusion layer side contact plug:



the lower diffusion layer side contact plug (N).



COMPLAINT

106. Defendants have had knowledge of and notice of the '233 patent and their infringement since at least September 6, 2022 when Longitude gave Defendants notice of their infringing actions. In any event, Defendants have had knowledge and notice of the '233 patent since at least the filing of this complaint.

107. Defendants have induced their customers and end users to infringe the '233patent by using their products as shown above. For example, Defendants encourage their customers and end users to perform infringing methods by the very nature of the products.

108. Defendants specifically intend their customers and/or end users infringe the '233 patent, either literally or by the doctrine of equivalents, because Defendants have known about the '233 patent and how Defendants' products infringe the claims of the '233 patent but Defendants have not taken steps to prevent infringement by their customers and/or end users. Accordingly, Defendants have acted with the specific intent to induce infringement of the '233 patent.

109. Accordingly, Defendants have induced, and continue to induce, infringement of the '233 patent under 35 U.S.C. §271(b).

17 110. As discussed above, Defendants have had knowledge of and notice of
18 the '233 patent and its infringement since at least September 6, 2022. Despite this
19 knowledge, Defendants continue to commit tortious conduct by way of patent
20 infringement.

21 111. Defendants have been and continue to infringe one or more of the
22 claims of the '233 patent through the aforesaid acts.

23 112. Defendants have committed these acts of infringement without license
24 or authorization.

25 113. Plaintiff is entitled to recover damages adequate to compensate for the
26 infringement.

27 114. Defendants have and continue to infringe the '233 patent, acting with
28 an objectively high likelihood that their actions constitute infringement of the '233

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patent. Defendants have known or should have known of this risk at least as early as September 6, 2022. Accordingly, Defendants' infringement of the '233 patent has been and continues to be willful.

PRAYER FOR RELIEF

Wherefore, Longitude, respectfully requests the following relief:

- a) A judgment that Defendants have infringed the '369 patent;
- b) A judgment that Defendants have infringed the '539 patent;
- c) A judgement that Defendants have infringed the '233 patent;
- d) A judgment that awards Plaintiff all appropriate damages under 35 U.S.C. §
 284 for Defendants' past infringement, and any continuing or future infringement of the Patents-in-Suit, up until the date such judgment is entered, including interest, costs, and disbursements as justified under 35 U.S.C. § 284 to adequately compensate Plaintiff for Defendants' infringement;
 - e) An adjudication that Defendants' infringement of the Patents-in-Suit has been willful and deliberate;
- f) An adjudication that Plaintiff be awarded treble damages and pre-judgment interest under 35 U.S.C. § 284 as a result of Defendants' willful and deliberate infringement of the Patents-in-Suit;
- g) An adjudication that this case is exceptional within the meaning of 35 U.S.C. § 285;
 - h) An adjudication that Plaintiff be awarded the attorneys' fees, costs, and expenses it incurs in prosecuting this action; and
 - i) An adjudication that Plaintiff be awarded such further relief at law or in equity as the Court deems just and proper.

JURY TRIAL DEMANDED

47 COMPLAINT

Plaintiff hereby demands a trial by jury of all issues so triable.

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1	Respectfully submitted,
2	DATED: January 9, 2023 RUSS, AUGUST & KABAT
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	COMPLAINT