	Case 8:23-cv-02068 Document 1	Filed 11/02/23	Page 1 of 49	Page ID #:1	
1 2 3 4 5 6 7 8 9 10	CENTRAL I	om TATES DIST DISTRICT OF	<b>CALIFORN</b>		
11 12		UTHERN DIV		20(0)	
12	VISIONX TECHNOLOGIES, L Texas limited liability company,	LC, a Case	e No. 8:23-cv-	2068	
14	Plaintiff,	TEC	INTIFF VIS CHNOLOGIE	ES, LLC'S	
15	V.		GINAL CON ENT INFRI	APLAINT FOR NGEMENT	
16 17	OMNIVISION TECHNOLOGIE INC., a Delaware corporation,	ES			
18	Defendant.				
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	COMPLAINT				

Plaintiff VisionX Technologies, LLC ("VisionX" or "Plaintiff") hereby 1 2 submits this Complaint for patent infringement against Defendant OmniVision Technologies Inc. ("Defendant" or "OmniVision") and states as follows: 3 4 **THE PARTIES** I.

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VisionX is a Limited Liability Company organized under the laws of 1. the state of Texas with its principal place of business at 30025 Alicia Pkwy #7042, 6 Laguna Niguel, CA 92677, U.S.A. 7

8 2. On information and belief, Defendant OmniVision is a corporation 9 organized under the laws of Delaware. Defendant OmniVision has multiple offices worldwide, including offices within the state of California at 150 Progress, Suite 10 11 250, Irvine, CA 92618 and 4275 Burton Drive, Santa Clara, California, 95054.<sup>1</sup> OmniVision is a wholly-owned subsidiary of Chinese semiconductor device and 12 13 mixed-signal integrated circuit design house, Will Semiconductor.<sup>2</sup>

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#### JURISDICTION AND VENUE П.

15 3. This Court has subject matter jurisdiction under 28 U.S.C. §§ 1331 and 1338(a) because this action arises under the patent laws of the United States, 35 16 U.S.C. § 1 et seq., including 35 U.S.C. § 271. 17

18 4. This Court has personal jurisdiction over Defendant at least because Defendant conducts business and has committed acts of patent infringement and/or 19 have induced acts of patent infringement by others in this judicial district, the State 20 of California, and elsewhere in the United States. As described in further detail 21 22 below, on information and belief, Defendant induces others to make, use, offer for 23 sale, sell, or import various image sensor chips or products containing image sensor 24 chips that infringe one or more of VisionX's patents. On information and belief, these Infringing Products (the '808 Patent Infringing Products (defined below), the 25

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<sup>1</sup> https://www.ovt.com/company/contact-us/ 27

<sup>&</sup>lt;sup>2</sup> See https://www.eenewseurope.com/en/omnivision-bought-quietly-by-chinas-will-28 semiconductor/

'143 Patent Infringing Products (defined below), and the '366 Patent Infringing
 Products (defined below) are collectively referred to herein as the "Infringing
 Products") have been offered for sale, sold, used, and imported in the United States,
 within the State of California and within this judicial district.

5 5. This court also has personal jurisdiction over Defendant because Defendant placed the Infringing Products into the stream of commerce, with the 6 7 expectation that they will be purchased and used by customers in the United States, 8 in the State of California and in this judicial district. On information and belief, 9 customers in the State of California and in this judicial district have purchased and 10 used and continue to purchase and use the Infringing Products. Accordingly, 11 Defendant's conduct and connections with the State of California are such that Defendant should reasonably have anticipated being brought into court here. 12

- 6. Venue is proper in this District as to Defendant pursuant to 28 U.S.C.
  §§ 1391(b), 1391(c) and 1400(b) because, among other things, Defendant is subject
  to this Court's personal jurisdiction and because, Defendant has offices in this
  District where a substantial portion of the infringing activities occurred, including at
  offices at 150 Progress, Suite 250, Irvine, CA 92618.
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### III. BACKGROUND

7. An image sensor is a semiconductor device within a camera that
 converts an optical image into an electrical signal. Due to the ubiquity of cameras in
 cell phones, computers, laptops, tablets, cars, drones, standalone cameras,
 surveillance cameras, and other devices, there is an enormous demand for image
 sensors and improvements to image sensor manufacturing technologies.

8. Defendant's image sensors are used in numerous electronic devices,
particularly smartphones, where it is utilized in the on-phone camera or cameras. In
addition to smartphones, Defendant's image sensors are used in other industries,
including the automotive industry, virtual reality (VR) and augmented reality (AR)
headsets and eye glasses, medical imaging (e.g., endoscopes and catheters), optical

1 inspection systems, and other machine vision applications.

2 9. On January 11, 2011, the United States Patent and Trademark Office 3 ("USPTO") duly and legally issued United States Patent No. 7,867,808 ("the '808 Patent"), titled "Image Sensor and Method for Manufacturing the Same." The '808 4 5 Patent is valid and enforceable.

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10. On October 11, 2011, the USPTO duly and legally issued United States 7 Patent No. 8,035,143 ("the '143 Patent"), titled "Semiconductor Device and Method 8 for Manufacturing the Same." The "143 Patent is valid and enforceable.

9 On January 11, 2011, the USPTO duly and legally issued United States 11. 10 Patent No. 7,868,366 ("the '366 Patent"), titled "Image Sensor and Method for Manufacturing the Same." The '366 Patent is valid and enforceable. 11

The '808 Patent, the '143 Patent, and the '366 Patent (collectively, the 12 12. 13 "Asserted Patents") were originally issued to Dongbu HiTek Co., Ltd. ("DB 14 HiTek"). DB HiTek, ranks as one of the top ten foundries in the semiconductor industry.<sup>3</sup> DB HiTek entered the semiconductor industry in 1983, when it began 15 supplying silicon wafers to integrated circuit manufacturers.<sup>4</sup> In 1997, it established 16 the first foundry in South Korea, and since then it has led South Korea's 17 semiconductor industry with state-of-the-art wafer fabrication capabilities and 18 19 significant investments in technological development and innovation.<sup>5</sup>

VisionX is the sole and exclusive owner of all rights, title, and interest 20 13. 21 in the Asserted Patents, including the sole and exclusive right to prosecute this 22 action, to enforce the Asserted Patents against infringers, to collect damages for 23 past, present and future infringement of the Asserted Patents, and to seek injunctive 24 relief as appropriate under the law, and VisionX has at all times relevant complied

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- 27 <sup>4</sup> *Id*.
- 28 <sup>5</sup> Id.

<sup>&</sup>lt;sup>3</sup> See https://dbhitek.com/eng/data/introduction/CSR%20Report%202020-26 2021%20(ENG) 20210812.pdf (last visited May 4, 2022).

with the marking provisions of 35 U.S.C. Sec. 287 with respect to the Asserted
 Patents. Accordingly, Defendant's infringement, as described below, has injured,
 and continues to injure VisionX.

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# IV. COUNT I: INFRINGEMENT OF '808 PATENT

5 14. VisionX incorporates each of the allegations of the foregoing6 paragraphs.

7 15. Defendant has directly infringed and continues to directly infringe the
8 '808 Patent by, for example, making, using, offering to sell, selling, and/or
9 importing into the United States, without authority, products that infringe one or
10 more claims of the '808 Patent.

11 16. Defendant is not licensed or otherwise authorized to make, use, offer
12 for sale, sell or import any products that embody the inventions of the '808 Patent in
13 the United States.

14 17. Defendant has and continues to directly infringe one or more claims of
15 the '808 Patent, including, for example, claim 1 of the '808 Patent, either literally or
16 under the doctrine of equivalents, by making, using, offering to sell, selling, and/or
17 importing into the United States infringing image sensors without authority and in
18 violation of 35 U.S.C. § 271.

19 18. With respect to the '808 Patent, Defendant's infringing Image Sensor
20 products include OmniVision's PureCel-S and PureCel Plus-S products, including –
21 for example – the following OmniVision products:

- OmniVision OS12D40
- OmniVision OV50A
- OmniVision OX01F10
- OmniVision OH01A10
- OmniVision OV48B
- OmniVision OV48C
- OmniVision OS02C10

- OmniVision OV23850
- OmniVision OV24A1Q
- OmniVision OV60A

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- OmniVision OV64B
  - OmniVision 0X08A

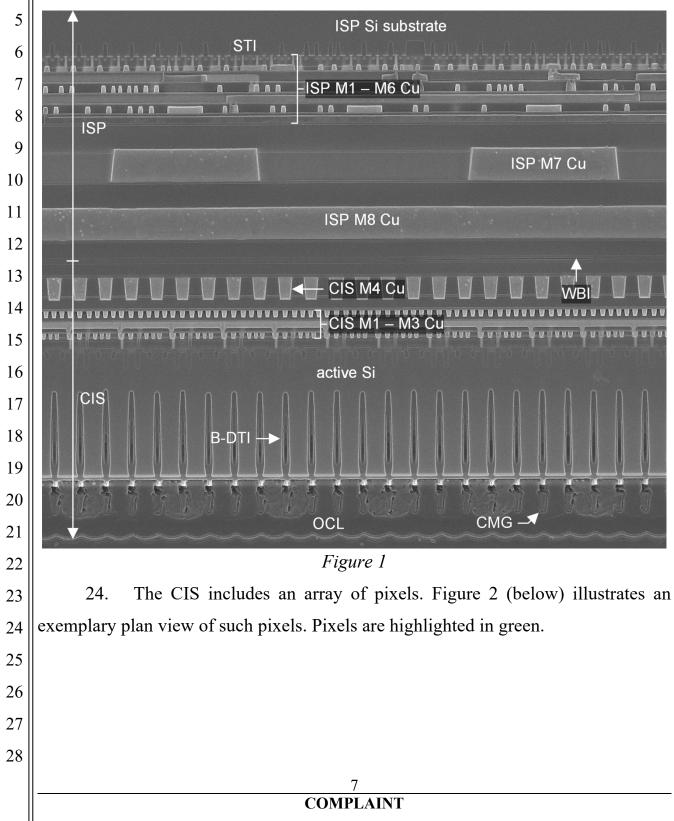
6 19. Defendant's infringing products further include any other OmniVision
7 chips in various camera modules that may or may not have OmniVision part
8 numbers, but are made by OmniVision with a similar structure as the above
9 OmniVision Image Sensors.

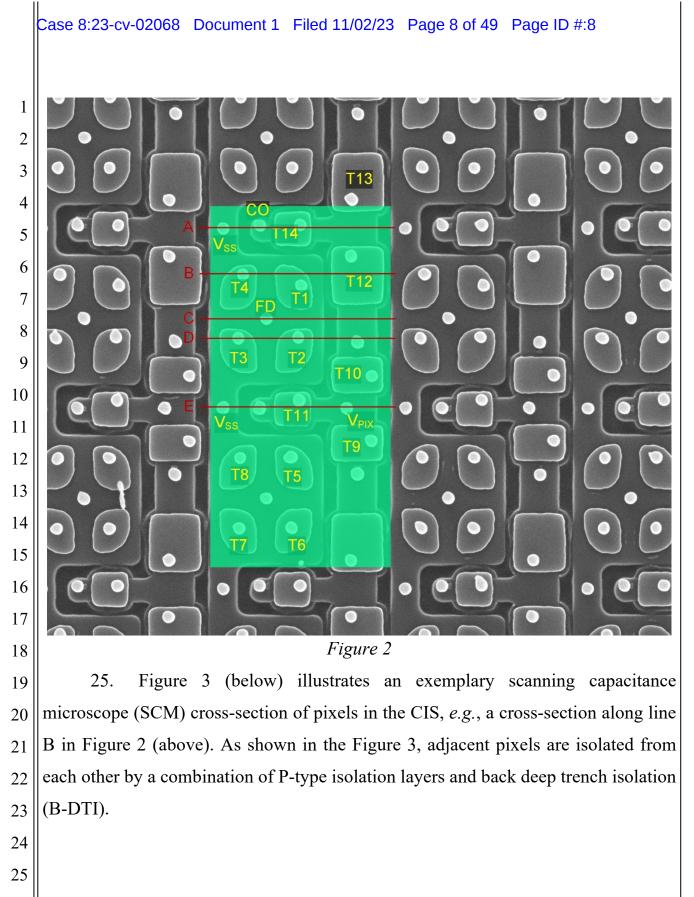
20. The infringing Image Sensor products identified above are collectively
referred to as the "808 Patent Infringing Products."

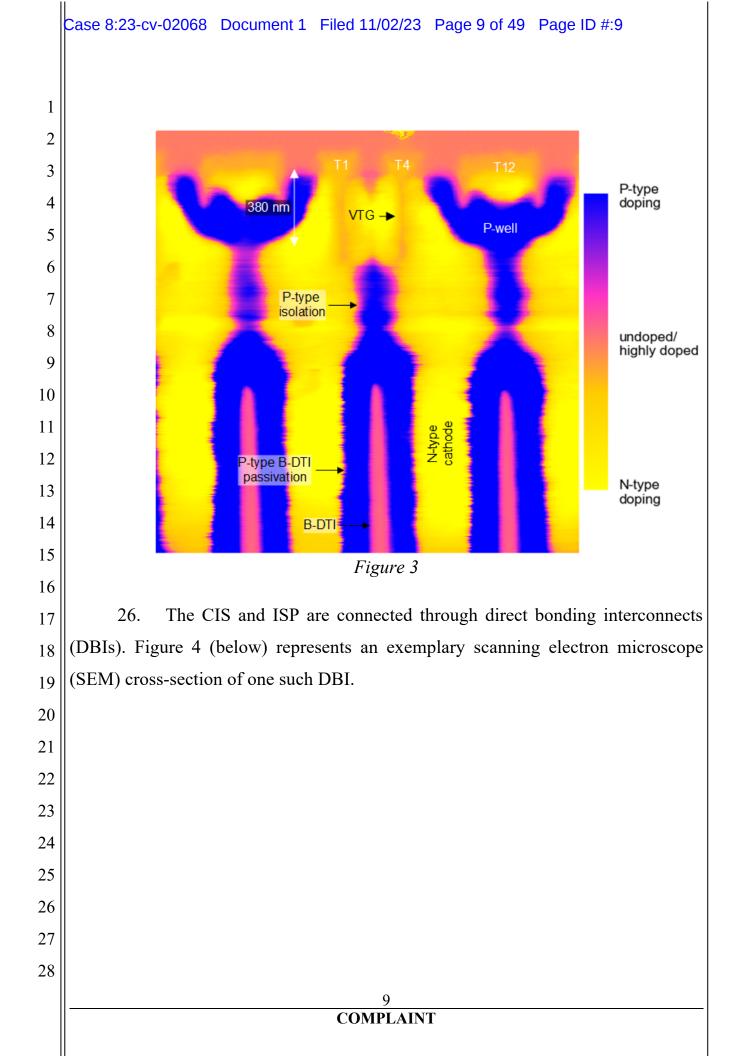
12 21. For example, the OmniVision OV60A Image Sensor infringes
13 representative claim 1 of the '808 Patent.

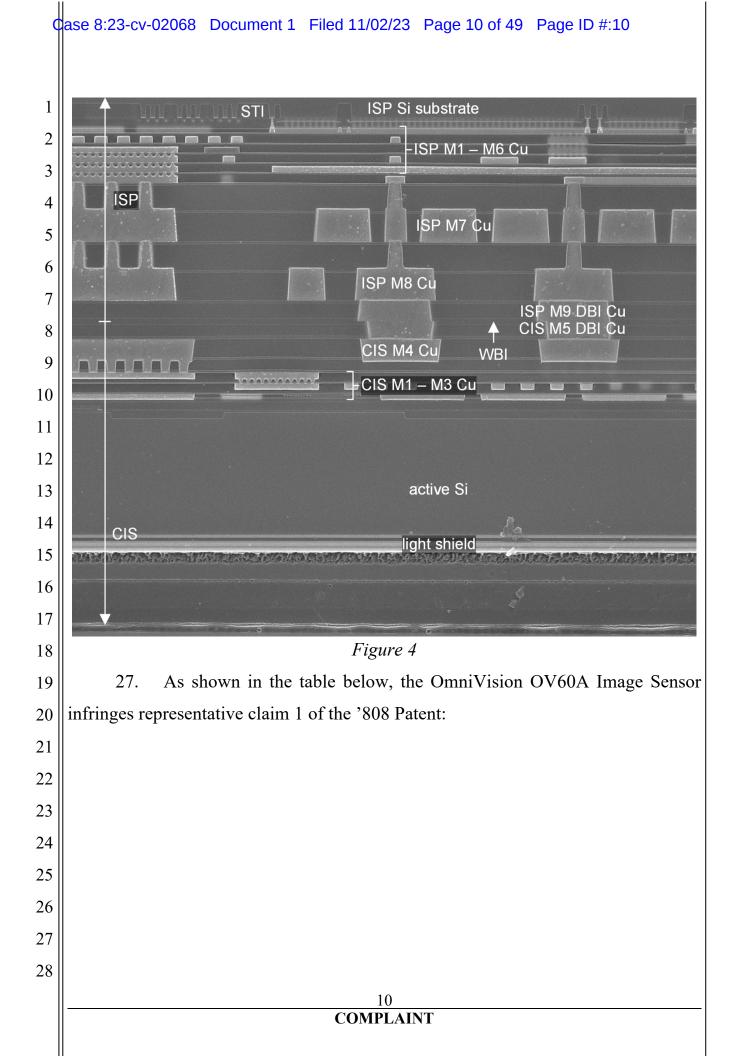
Claim 1 of the '808 Patent claims a method, comprising: providing a 14 22. 15 first substrate; forming circuitry including a metal interconnection over the first substrate; forming a photodiode in a crystalline semiconductor layer of a second 16 17 substrate; forming an ion implantation isolation layer in the photodiode; bonding the 18 first substrate to the second substrate to connect the photodiode to the metal 19 interconnection; and removing a lower portion of the second substrate to expose the 20 photodiode, wherein forming the photodiode comprises: forming a second 21 conduction type conduction layer in the crystalline semiconductor layer; and forming a first conduction type conduction layer over the second conduction type 22 23 conduction layer, wherein forming the ion implantation isolation layer in the 24 photodiode comprises forming a second conduction type first ion implantation 25 isolation layer over the first conduction type conduction layer, wherein forming the 26 ion implantation isolation layer in the photodiode comprises forming a second 27 conduction type second ion implantation isolation layer at an interface between 28 pixels of the photodiode.

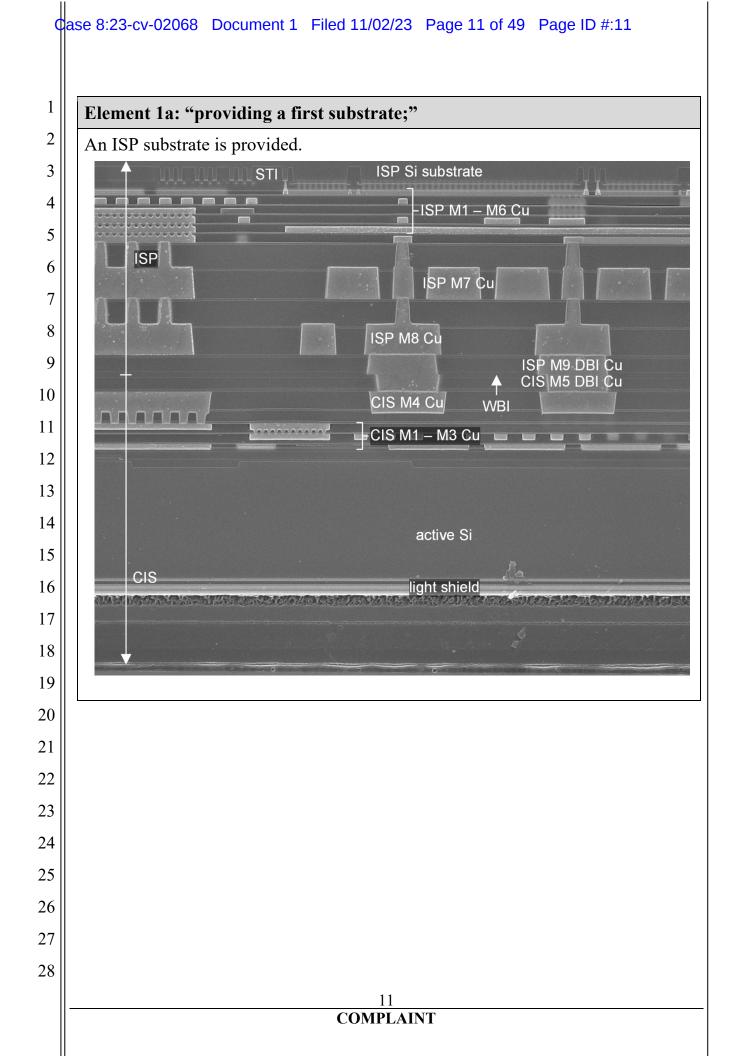
The OmniVision OV60A Image Sensor includes stacked image sensor
 (CIS) and image signal processor (ISP). CIS and ISP each includes a metal
 interconnection. Figure 1 (below) illustrates an exemplary cross-section of the
 stacked CIS and ISP.



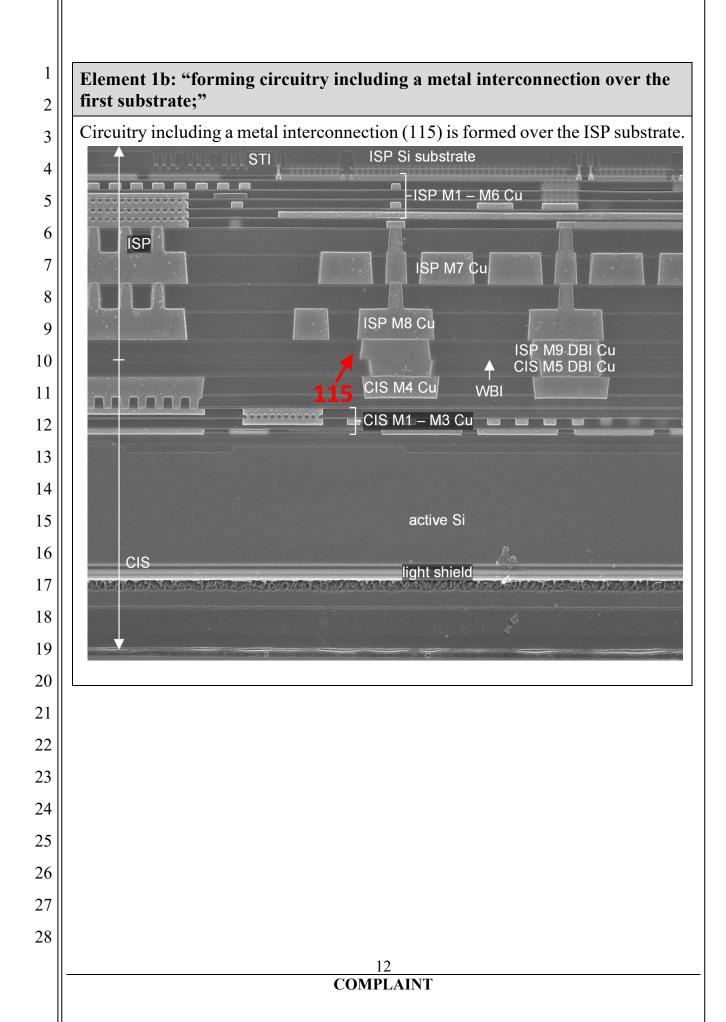




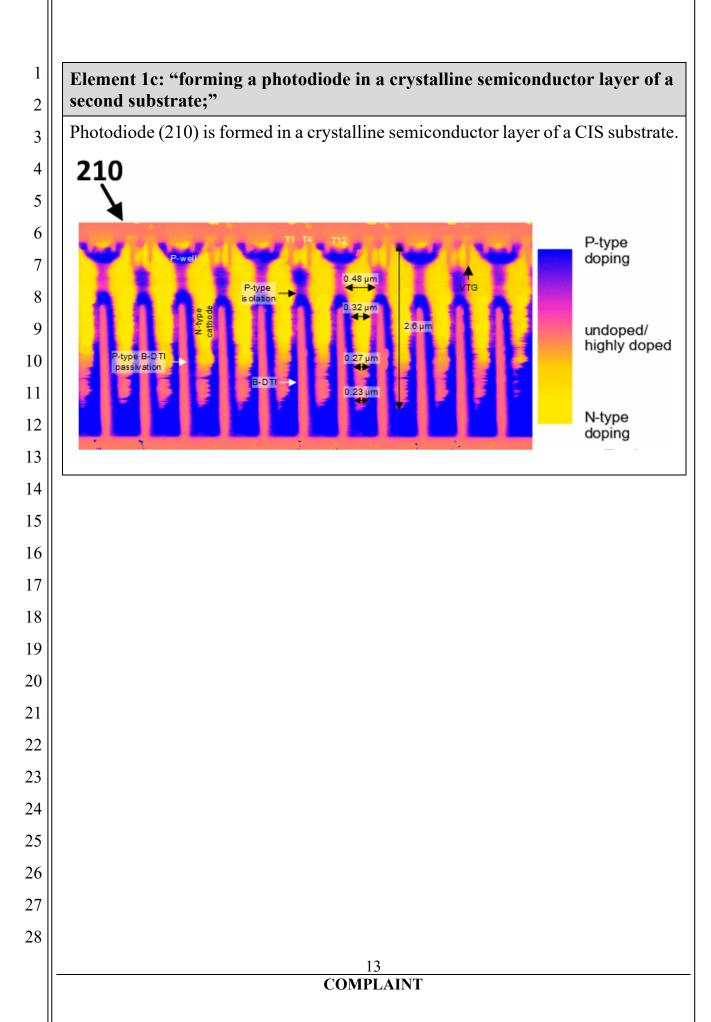




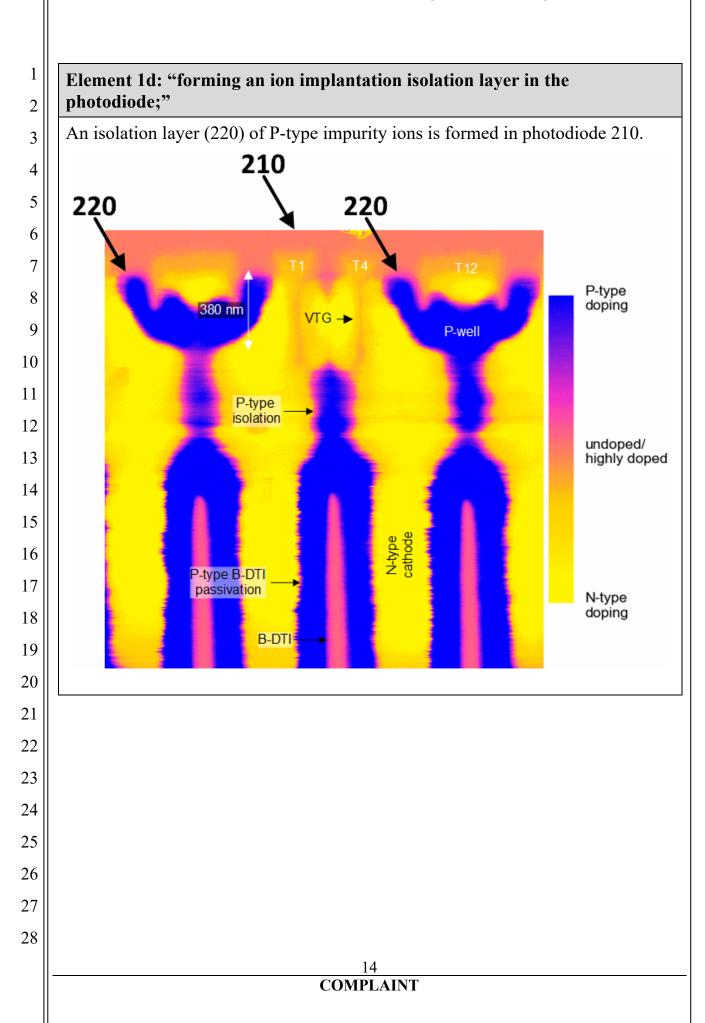


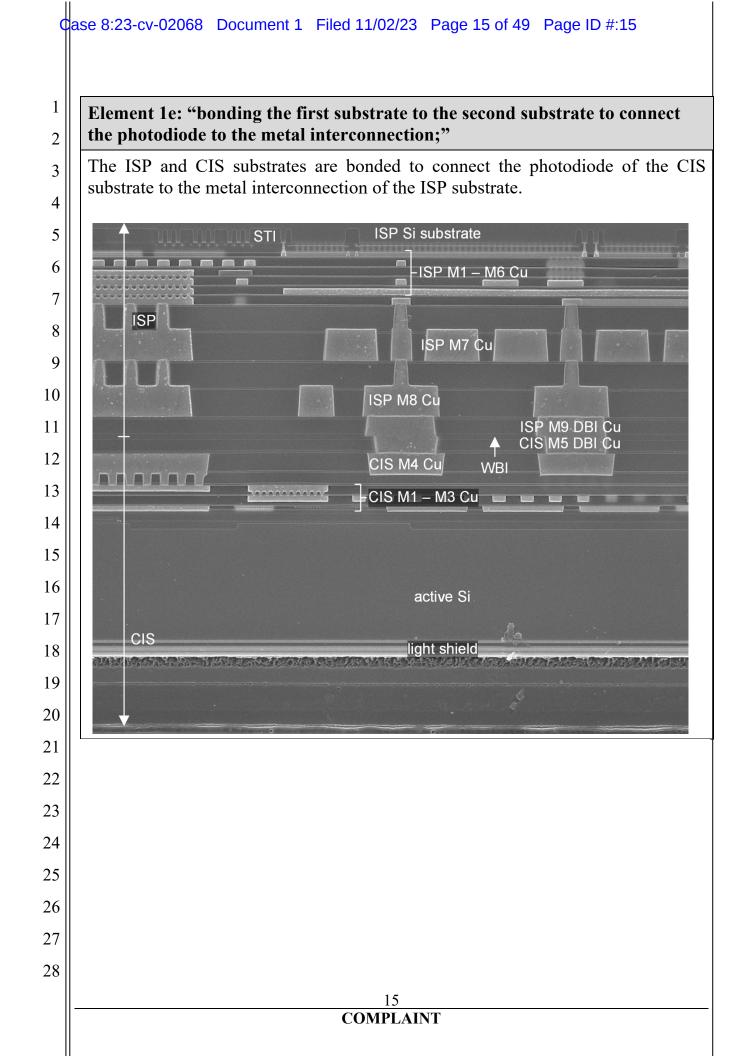






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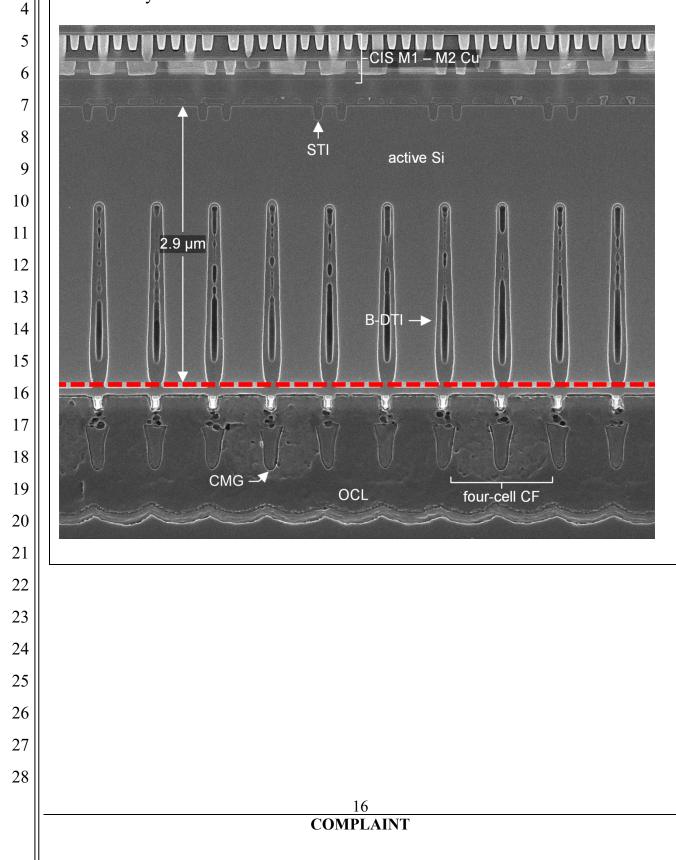
# Case 8:23-cv-02068 Document 1 Filed 11/02/23 Page 16 of 49 Page ID #:16

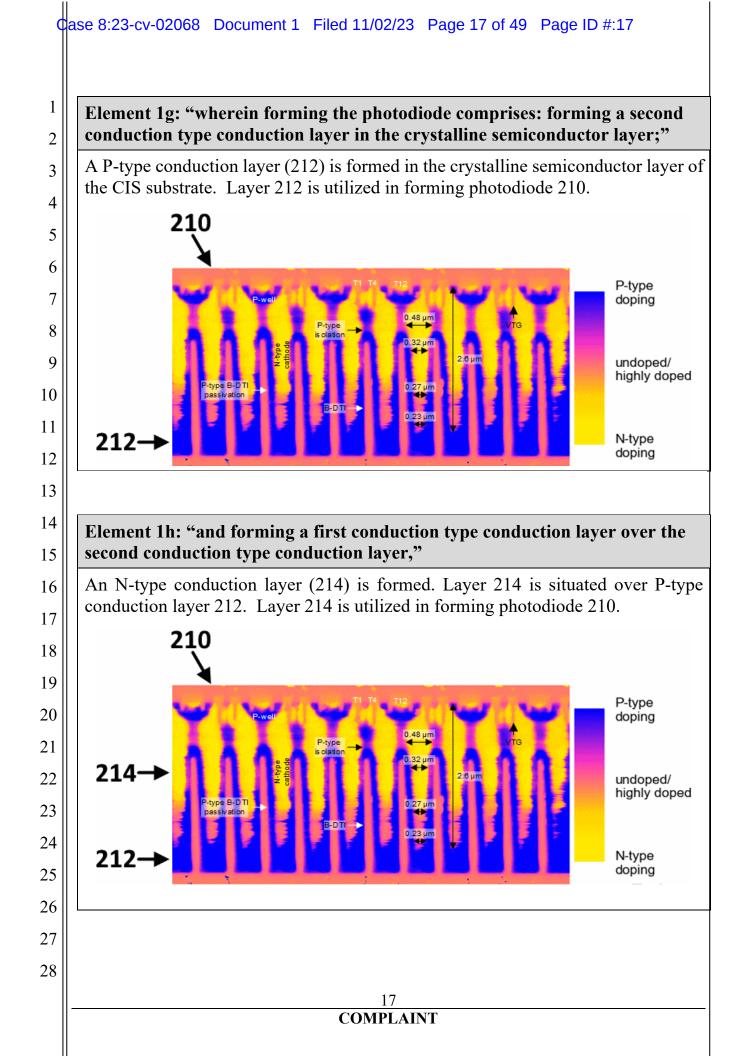


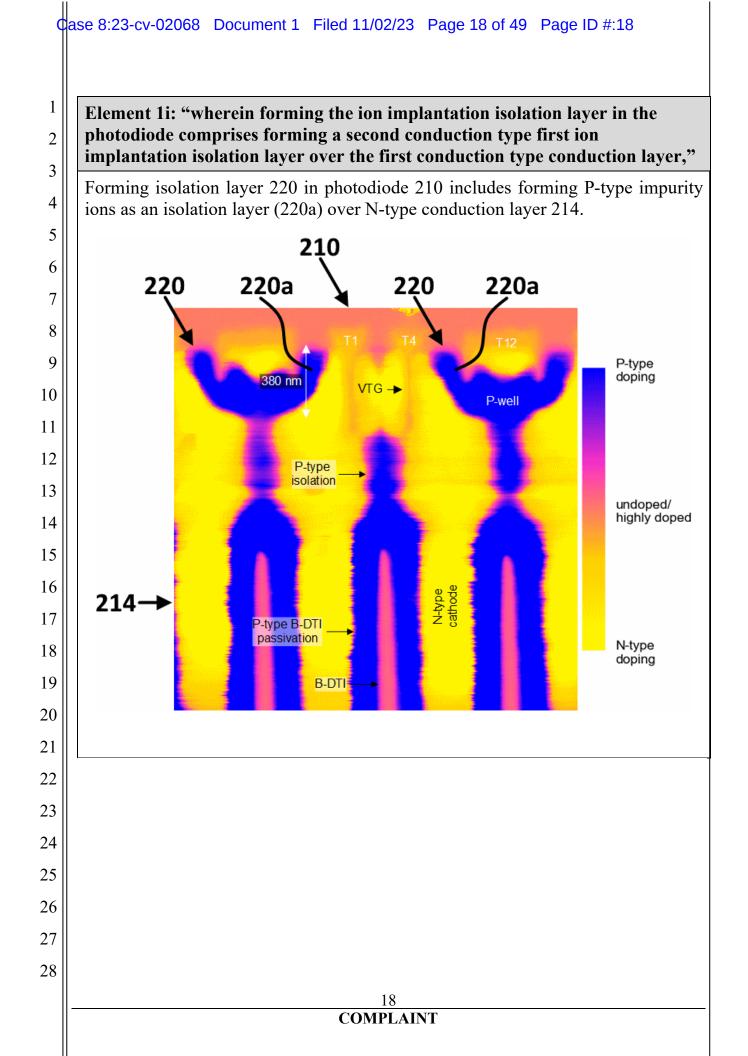
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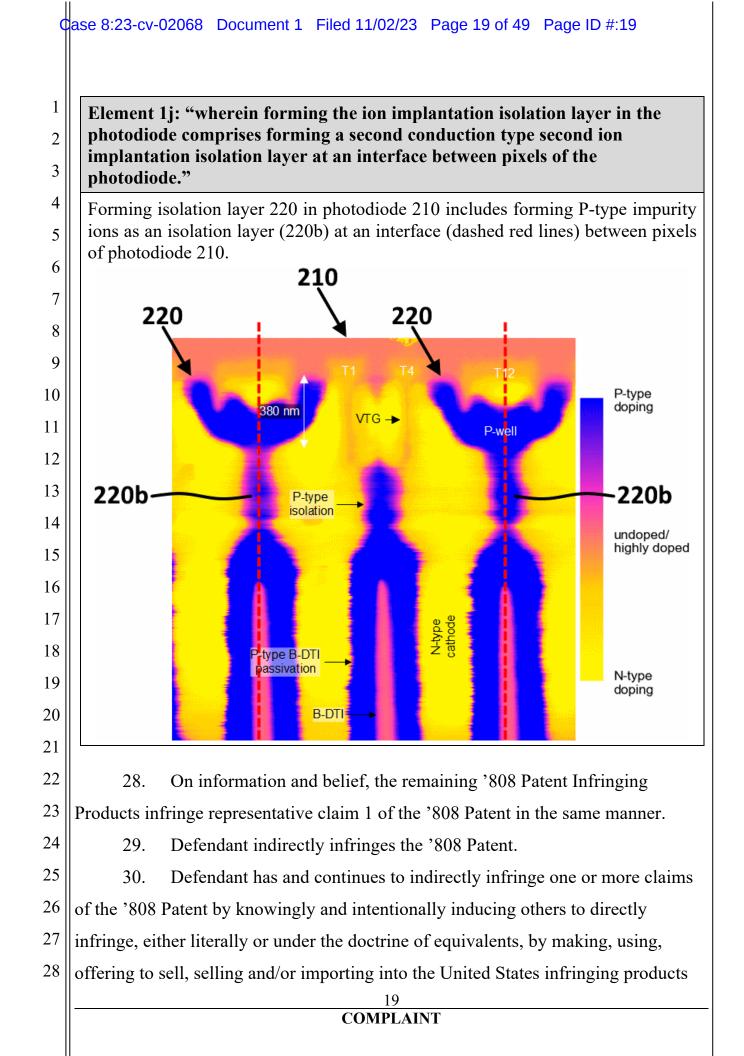
Element 1f: "and removing a lower portion of the second substrate to expose the photodiode,"

A lower portion of the CIS substrate is removed to expose the photodiode as illustrated by the dashed red line below.









1	that incorporate and/or use the '808 Patent Infringing Products. Defendant induces				
2	direct infringement of the '808 Patent by customers, importers, sellers, resellers,				
3	and/or end users of the '808 Patent Infringing Products. On information and belief,				
4	the direct infringers include, for example, Microsoft Corporation <sup>6</sup> , Dell				
5	Technologies, Inc. <sup>7</sup> , Tesla, Inc. <sup>8</sup> , Lenovo Group Ltd. <sup>9</sup> , Qualcomm Incorporated (or				
6	alternatively Qualcomm Technologies, Inc.) <sup>10</sup> , Nokia Corporation <sup>11</sup> , ASUSTeK				
7	Computer Inc. <sup>12</sup> , Motorola Mobility LLC <sup>13</sup> , BLU Products Inc. <sup>14</sup> , Arlo				
8	Technologies, Inc. <sup>15</sup> , Ring LLC <sup>16</sup> , HTC Corporation <sup>17</sup> , Leopard Imaging Inc. <sup>18</sup> ,				
9	Reolink Innovation Limited <sup>19</sup> , VisionMeta <sup>20</sup> , Huawei, Xiaomi, TCL, Gionee,				
10					
11	<sup>6</sup> https://electronics360.globalspec.com/article/15250/teardown-microsoft-surface-pro-x				
12	<sup>7</sup> https://www.ovt.com/press-releases/dell-selects-omnivisions-ov02c-for-the-most- superior-1080p-webcam-performance-in-next-generation-latitude-laptops/				
13	<sup>8</sup> https://teslatap.com/undocumented/				
14	<sup>9</sup> https://www.kimovil.com/en/where-to-buy-lenovo-legion-y70#sec-camera				
15 16	<sup>10</sup> https://www.roadtovr.com/htc-vive-lenovo-standalone-headsets-based-qualcomm-				
17	<sup>11</sup> https://nokiamob.net/2023/04/27/nokia-xr21-5g-coming-after-all-not-xr30/				
18	<sup>12</sup> https://www.engadget.com/2017-08-17-asus-zenfone-4-pro-selfie-max-dual-camera.html				
19	<sup>13</sup> https://www.kimovil.com/en/list-smartphones-by-lens-model/omnivision-ov50a				
20	<sup>14</sup> https://www.deviceranks.com/en/phone/4786/blu-pure-xl				
21	<sup>15</sup> https://www.burglaryalarmsystem.com/product-news/disassemble-teardown-netgear- arlo-battery-powered-wifi-cameras-security-system.html				
22 23	<sup>16</sup> https://www.ovt.com/press-releases/omnivision-provides-ring-producer-of-the-worlds- first-battery-operated-wireless-video-doorbell-with-hd-video-recording-and-streaming-				
24	capabilities/				
25	<sup>17</sup> https://www.techinsights.com/products/ddt-2206-805				
23 26	<sup>18</sup> https://leopardimaging.com/product/csi-2-mipi-modules-i-pex/csi-2-mipi-modules/rolling-shutter-mipi-cameras/2mp-os02c10/li-os02c10-mipi-cs/				
27	<sup>19</sup> https://www.techinsights.com/products/pkg-2201-804				
28	<sup>20</sup> https://www.visionmeta.com/product/11m-icatch-v39m-3-axis-anti-shake-eis-gimbal-camera-module-for-drone/				
	20 COMPLAINT				

OnePlus, Guangdong Oppo Mobile Telecommunications Corp., Ltd.<sup>21</sup>, Honor, 1 Tecno, Qmobile, Allview, Shenzhen Qingzheng Electronic Information Technology 2 Co., Ltd.<sup>22</sup>, Xinga Digital Electronic (Shenzhen) Co., Ltd.<sup>23</sup>, Shenzhen ChuangMu 3 Technology Co., Ltd.<sup>24</sup>, Kai Lap Technologies Group Ltd.<sup>25</sup>, Shanghai Belite 4 Technology Co., Ltd.<sup>26</sup>, and Defendant's subsidiary OmniVision Electronics, Inc. 5 31. Defendant had actual knowledge of the '808 Patent and that the '808 6 Patent Infringing Products infringe that patent at least as of November 1, 2023. 7 8 Accordingly, at least as of that date, Defendant was on notice, knew and/or should 9 have known that its actions induced direct infringement by third parties. Accordingly, at least as of that date, Defendant induced infringement by third party 10 direct infringers and should have known that its actions would induce actual 11 infringement. 12

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32. Additionally, at the very least Defendant had actual knowledge of the '808 Patent and its infringement of the same as of the date of this Complaint.

33. Defendant induced infringement by others with the intent to cause
infringing acts by others or, in the alternative, with the belief that there was a high
probability that others infringe the '808 Patent, but while at best, remaining willfully
blind to the infringement.

34. On information and belief, Defendant advertises the '808 Patent
Infringing Products, publishes specifications and promotional literature encouraging

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22 <sup>21</sup> https://www.gsmarena.com/oppo\_reno10-review-2600p5.php

23 22 https://www.qz-uav.com/Upload/en/editor/file/20230311/1678482632263687.jpg

24 <sup>23</sup> https://www.alibaba.com/product-detail/XINGA-XG23-12MP-OS12D40-FF-MF\_1600442097661.html

25 24 http://www.camera-module.com/product/hdrcameramodule/2mp-120db-hdr-cameramodule-omnivision-os02c10.html

27 25 http://japanese.kailaptech.com/Product.aspx?id=2043&11=1413

28 <sup>26</sup> https://www.alibaba.com/product-detail/2MP-OS02C10-USB-Camera-Module-1080P\_1600558712606.html

# <u>21</u>

customers to implement and incorporate the '808 Patent Infringing Products into
 end user products, creates and/or distributes user manuals for the '808 Patent
 Infringing Products that provide instructions and/or encourage infringing use, and
 offers support and/or technical assistances to its customers that provide instructions
 on and/or encourage infringing use.

35. Defendant encourages and facilitates its customers to infringe the '808
Patent by promoting the '808 Patent Infringing Products, for example, on
Defendant's website.

9 36. Defendant's customers that incorporate the '808 Patent Infringing
10 Products into other products (e.g., smartphones, vehicles, security cameras, lap tops,
11 virtual reality (VR) and augmented reality (AR) headsets and eye glasses, medical
12 imaging, optical inspection systems, other machine vision applications, etc.) as well
13 as the end users of those products, each directly infringe the Asserted Patents
14 pursuant to Defendant's instructions and advertisements.

15

#### V. COUNT II: INFRINGEMENT OF '143 PATENT

37. VisionX incorporates each of the allegations of the paragraphs above.
38. Defendant has directly infringed and continues to directly infringe the
'143 Patent by, for example, making, using, offering to sell, selling, and/or
importing into the United States, without authority, products that practice one or
more claims of the '143 Patent.

39. Defendant is not licensed or otherwise authorized to make, use, offer
for sale, sell or import any products that embody the inventions of the '143 Patent in
the United States.

40. Defendant has and continues to directly infringe one or more claims of
the '143 Patent, including, for example, claim 1 of the '143 Patent, either literally or
under the doctrine of equivalents, by making, using, offering to sell, selling, and/or
importing into the United States infringing image sensors without authority and in
violation of 35 U.S.C. § 271.

41. With respect to the '143 Patent, Defendant's infringing Image Sensor
 products include OmniVision's products, including – for example – the following
 OmniVision products<sup>27</sup>:

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- OmniVision V23850
- OmniVision OS12D40
- OmniVision OH01A10
- OmniVision OV48C
  - OmniVision OV50A

9 42. Defendant's infringing products further include any other OmniVision
10 chips in various camera modules that may or may not have OmniVision part
11 numbers, but are made by with a similar structure as the above OmniVision Image
12 Sensors (collectively, the "143 Patent Infringing Products").

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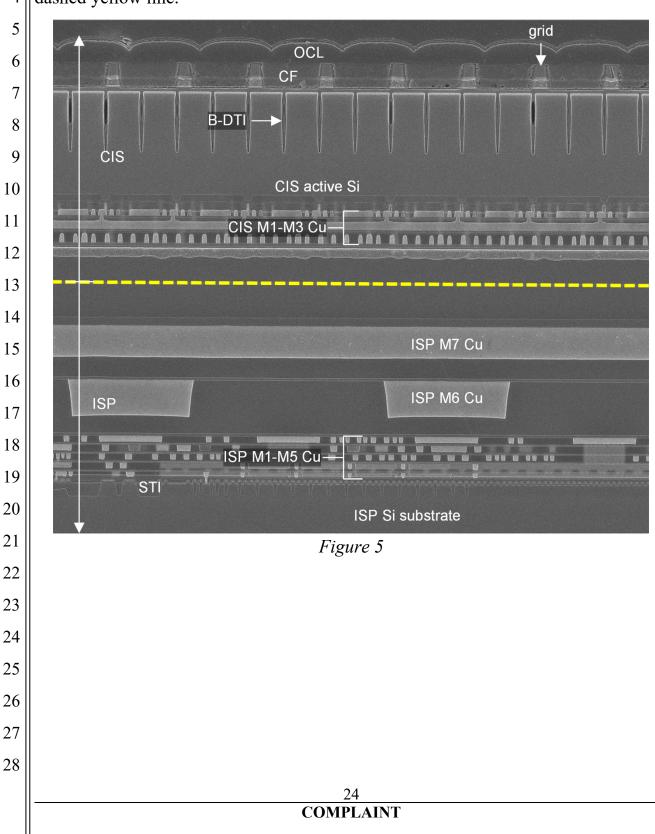
43. For example, the OmniVision OV50A Image Sensor infringes representative claim 1 of the '143 Patent.

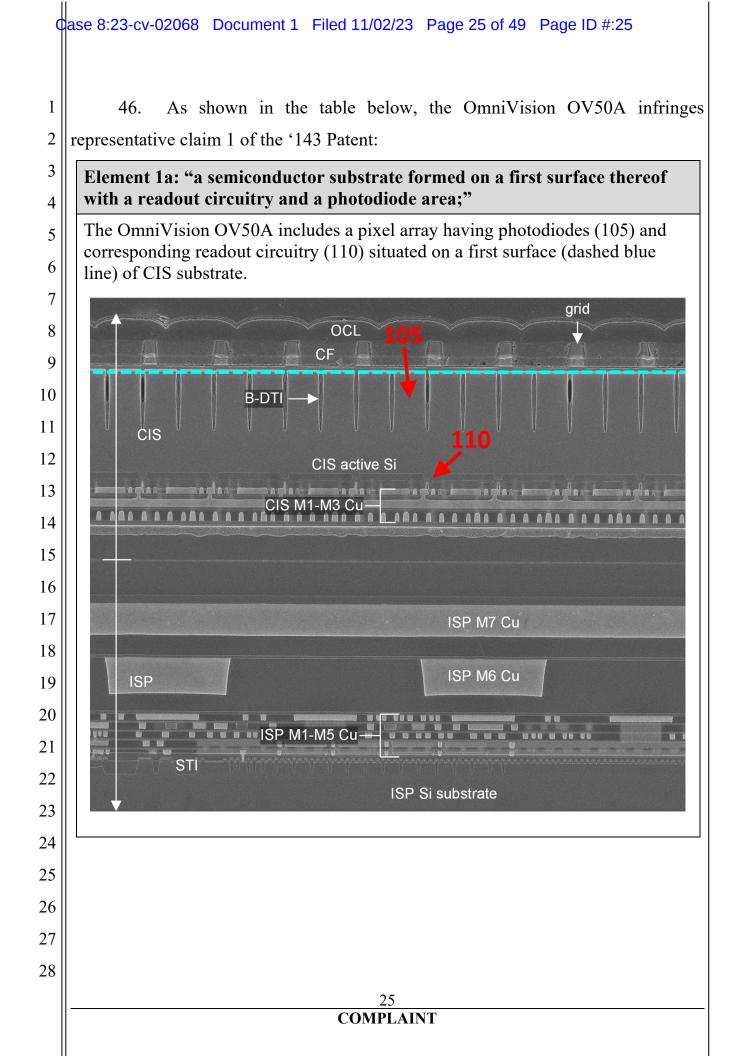
15 44. Claim 1 of the '143 Patent claims an image sensor comprising: a semiconductor substrate formed on a first surface thereof with a readout circuitry 16 and a photodiode area; a metal interconnection layer formed on the first surface; a 17 connection via metal extending from the first surface to a second surface of the 18 19 semiconductor substrate, the connection via metal having a projection part projecting from the second surface; an insulating layer formed on the second surface 20 21 of the semiconductor substrate to expose the projection part while surrounding a portion of a lateral side of the projection part; and a metal pad formed on the 22 23 insulating layer such that the metal pad covers the projection part, wherein the 24 insulating layer has a thickness thinner than a projection height of the projection 25 part.

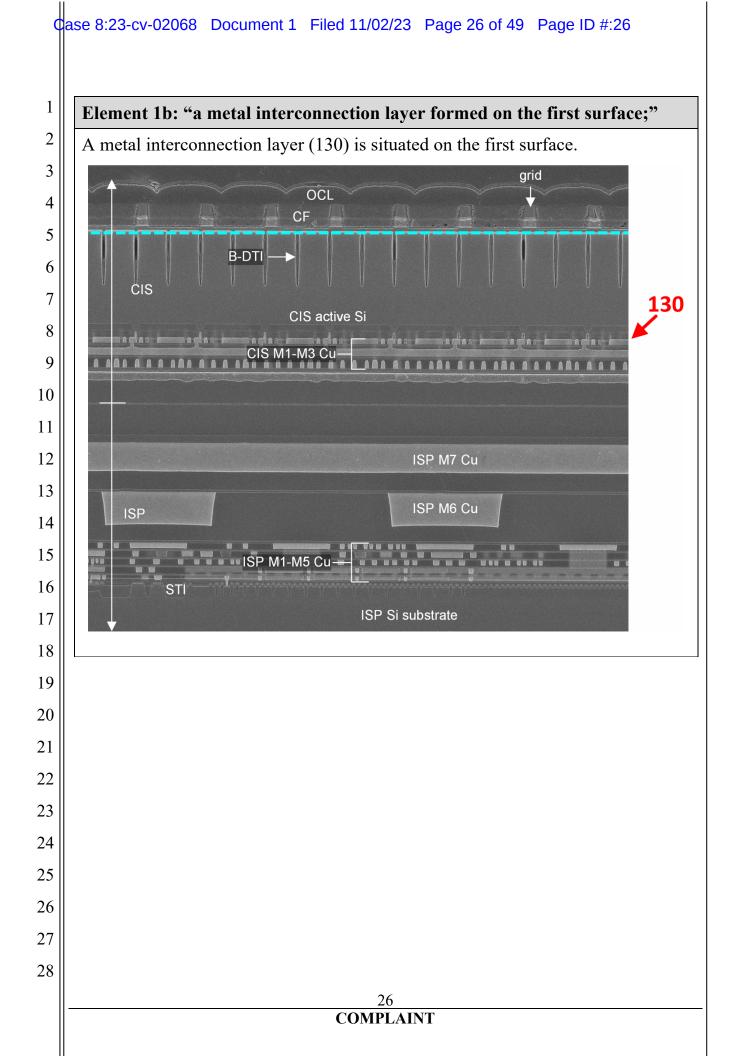
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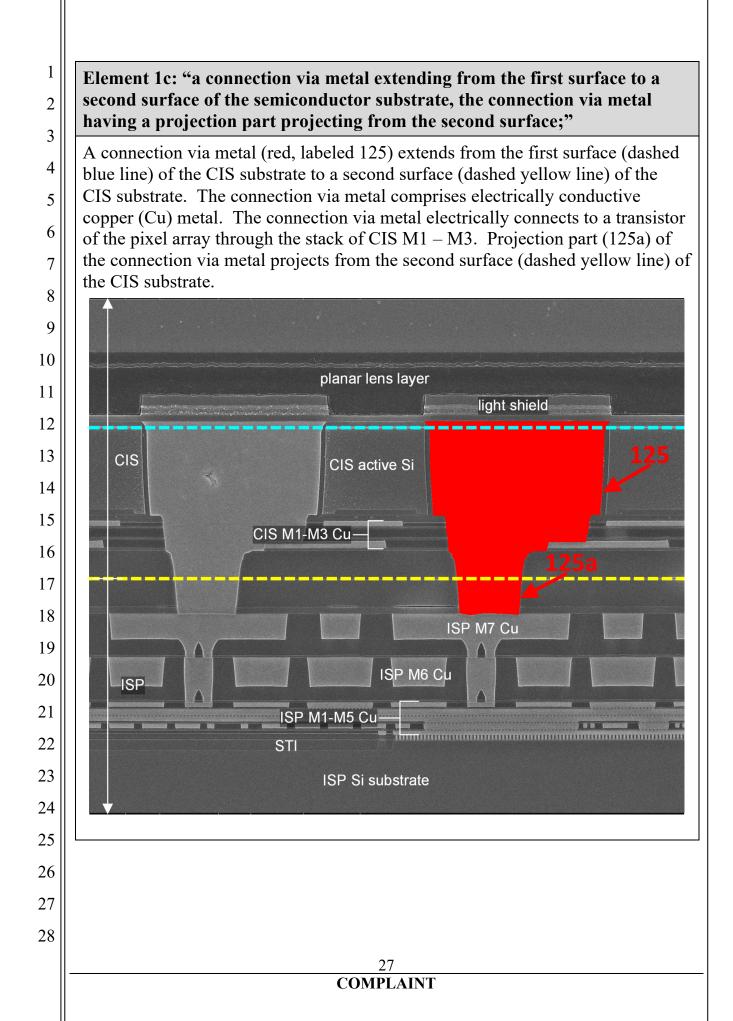
<sup>28 &</sup>lt;sup>27</sup> Plaintiff is currently investigating whether certain single-die OmniVision Image Sensor products may also infringe one or more claims of the '143 patent.

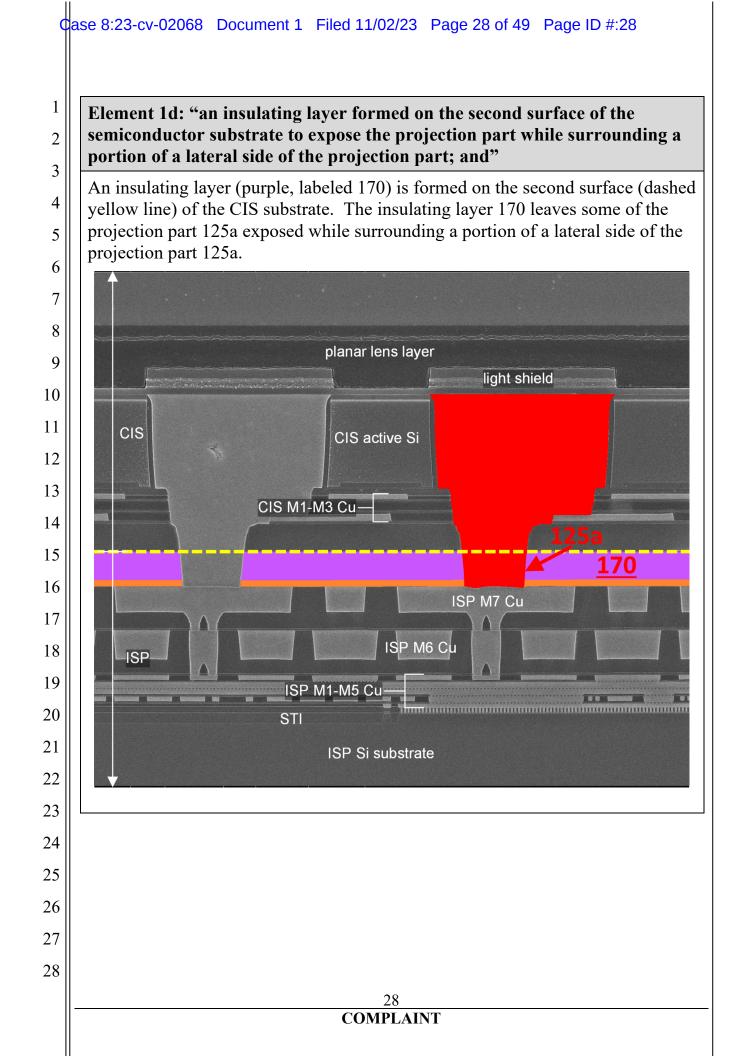
45. The OmniVision OV50A includes stacked CIS and ISP. Figure 5
 (below) illustrates an exemplary scanning electron microscope (SEM) cross-section
 of the stacked CIS and ISP where the interface of the CIS and ISP is indicated by a
 dashed yellow line.



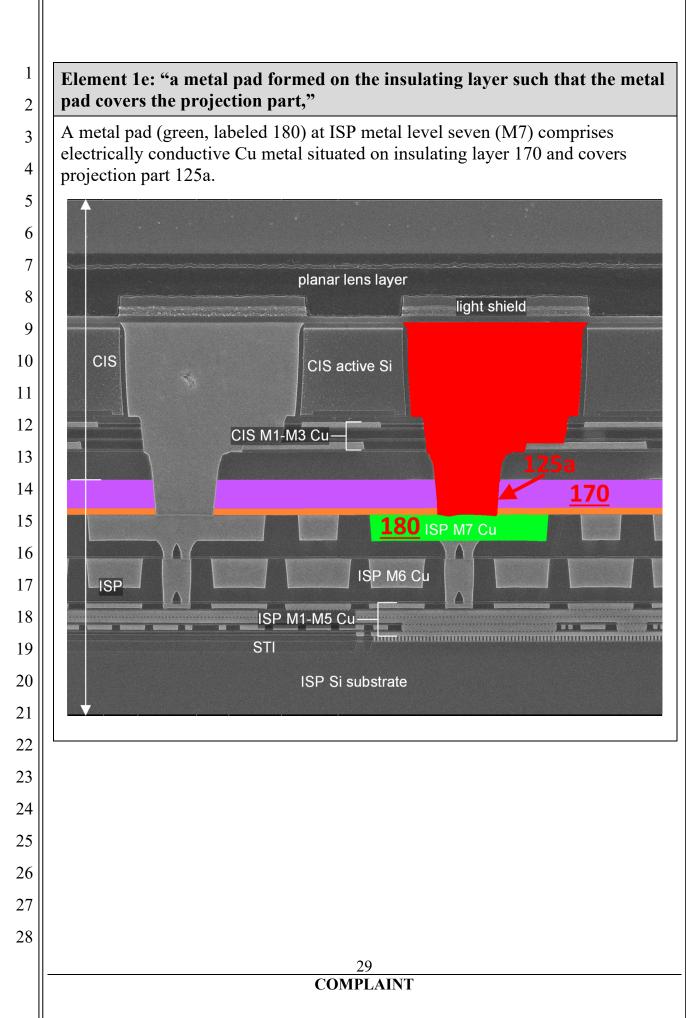




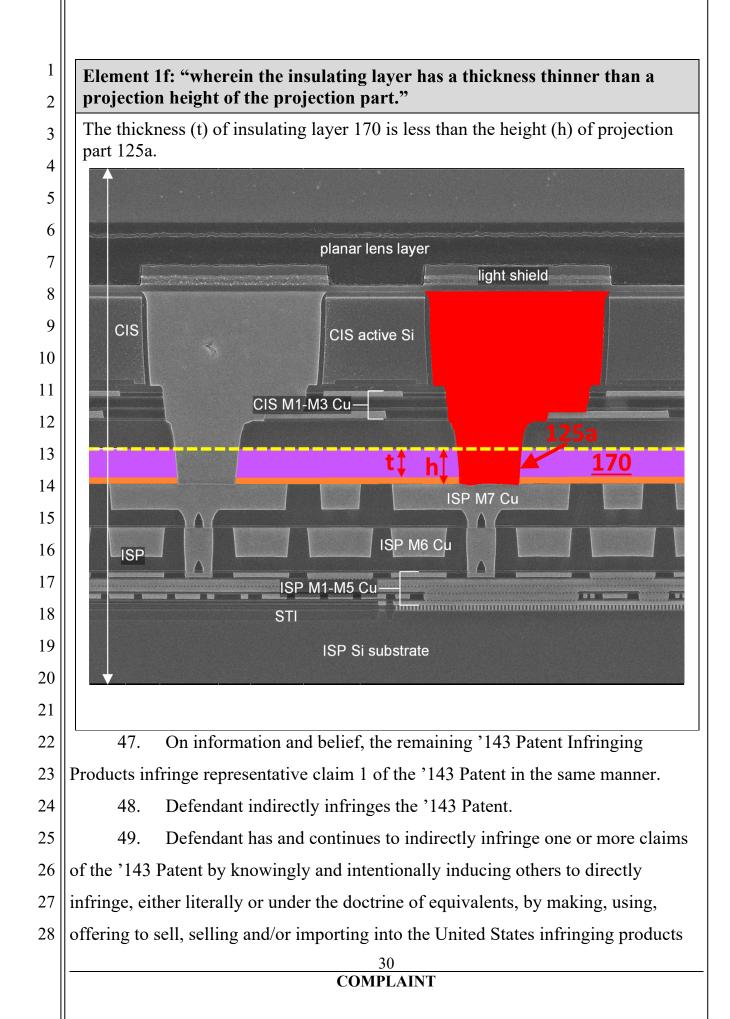












<ul> <li>the direct infringers include, for example, Microsoft Corporation<sup>28</sup>, Dell</li> <li>Technologies, Inc.<sup>29</sup>, Tesla, Inc.<sup>30</sup>, Lenovo Group Ltd.<sup>31</sup>, Qualcomm Incorporated (</li> <li>alternatively Qualcomm Technologies, Inc.)<sup>32</sup>, Nokia Corporation<sup>33</sup>, ASUSTeK</li> <li>Computer Inc.<sup>34</sup>, Motorola Mobility LLC<sup>35</sup>, BLU Products Inc.<sup>36</sup>, Arlo</li> <li>Technologies, Inc.<sup>37</sup>, Ring LLC<sup>38</sup>, HTC Corporation<sup>30</sup>, Leopard Imaging Inc.<sup>40</sup>,</li> <li>Reolink Innovation Limited<sup>41</sup>, VisionMeta<sup>42</sup>, Huawei, Xiaomi, TCL, Gionee,</li> <li><sup>28</sup> https://clectronics360.globalspec.com/article/15250/teardown-microsoft-surface-pro-x</li> <li><sup>29</sup> https://www.ovt.com/press-releases/dell-selects-omnivisions-ov02c-for-the-most-superior-1080p-webcam-performance-in-next-generation-latitude-laptops/</li> <li><sup>30</sup> https://teslatap.com/undocumented/</li> <li><sup>31</sup> https://www.kimovil.com/en/where-to-buy-lenovo-legion-y70#sec-camera</li> <li><sup>32</sup> https://okiamob.net/2023/04/27/nokia-xr21-5g-coming-after-all-not-xr30/</li> <li><sup>34</sup> https://www.engadget.com/2017-08-17-asus-zenfone-4-pro-selfie-max-dual-camera.html</li> <li><sup>35</sup> https://www.kimovil.com/en/list-smartphones-by-lens-model/omnivision-ov50a</li> <li><sup>36</sup> https://www.burglaryalarmsystem.com/product-news/disasemble-teardown-netgear-arlo-battery-powered-wifi-cameras-security-system.html</li> <li><sup>38</sup> https://www.ot.com/press-releases/omivision-provides-ring-producer-of-the-worlds-first-battery-operated-wireless-video-doorbell-with-h-video-recording-and-streaming-capabilities/</li> <li><sup>30</sup> https://www.techinsights.com/product/dt-2206-805</li> <li><sup>40</sup> https://leopardimaging.com/product/sl-2-mipi-modules-i-pex/esi-2-mipi-modules/rolling-shutter-mipi-cameras/2mp-os02c10/lios02c10-mipi-cs/</li> <li><sup>41</sup> https://www.techinsights.com/product/skg-2201-804</li> <li><sup>42</sup> https://www.techinsights.com/product/pkg-2201-804</li> <li><sup>42</sup> https://www.techinsights.com/product/nu-v39m-3-axis-anti-shake-eis-gim</li></ul>	1	that incorporate and/or use the '143 Patent Infringing Products. Defendant induces		
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31 COMPLAINT				

OnePlus, Guangdong Oppo Mobile Telecommunications Corp., Ltd.<sup>43</sup>, Honor, 1 Tecno, Qmobile, Allview, Shenzhen Qingzheng Electronic Information Technology 2 Co., Ltd.<sup>44</sup>, Xinga Digital Electronic (Shenzhen) Co., Ltd.<sup>45</sup>, Shenzhen ChuangMu 3 Technology Co., Ltd.<sup>46</sup>, Kai Lap Technologies Group Ltd.<sup>47</sup>, Shanghai Belite 4 Technology Co., Ltd.<sup>48</sup>, and Defendant's subsidiary OmniVision Electronics, Inc. 5 50. Defendant had actual knowledge of the '143 Patent and that the '143 6 Patent Infringing Products infringe that patent at least as of November 1, 2023. 7 8 Accordingly, at least as of that date, Defendant was on notice, knew and/or should 9 have known that its actions induced direct infringement by third parties. Accordingly, at least as of that date, Defendant induced infringement by third party 10 11 direct infringers and should have known that its actions would induce actual infringement. 12 13 51. Additionally, at the very least Defendant had actual knowledge of the '143 Patent and its infringement of the same as of the date of this Complaint. 14 Defendant induced infringement by others with the intent to cause 15 52. infringing acts by others or, in the alternative, with the belief that there was a high 16 probability that others infringe the '143 Patent, but while at best, remaining willfully 17 18 blind to the infringement. 19 53. On information and belief, Defendant advertises the '143 Patent Infringing Products, publishes specifications and promotional literature encouraging 2021

22 43 https://www.gsmarena.com/oppo\_reno10-review-2600p5.php

24 <sup>45</sup> https://www.alibaba.com/product-detail/XINGA-XG23-12MP-OS12D40-FF-MF\_1600442097661.html

<sup>25</sup> <sup>46</sup> http://www.camera-module.com/product/hdrcameramodule/2mp-120db-hdr-camera-26 module-omnivision-os02c10.html

27 47 http://japanese.kailaptech.com/Product.aspx?id=2043&11=1413

28 48 https://www.alibaba.com/product-detail/2MP-OS02C10-USB-Camera-Module-1080P\_1600558712606.html

#### 32

<sup>23 44</sup> https://www.qz-uav.com/Upload/en/editor/file/20230311/1678482632263687.jpg

customers to implement and incorporate the '143 Patent Infringing Products into
 end user products, creates and/or distributes user manuals for the '143 Patent
 Infringing Products that provide instructions and/or encourage infringing use, and
 offers support and/or technical assistances to its customers that provide instructions
 on and/or encourage infringing use.

54. Defendant encourages and facilitates its customers to infringe the '143
Patent by promoting the '143 Patent Infringing Products, for example, on
Defendant's website.

9 55. Defendant's customers that incorporate the '143 Patent Infringing
10 Products into other products (e.g., smartphones, vehicles, security cameras, lap tops,
11 virtual reality (VR) and augmented reality (AR) headsets and eye glasses, medical
12 imaging, optical inspection systems, other machine vision applications, etc.) as well
13 as the end users of those products, each directly infringe the Asserted Patents
14 pursuant to OmniVision's instructions and advertisements.

15

### VI. COUNT III: INFRINGEMENT OF '366 PATENT

56. VisionX incorporates each of the allegations of the paragraphs above.
57. Defendant has directly infringed and continues to directly infringe the
'366 Patent by, for example, making, using, offering to sell, selling, and/or
importing into the United States, without authority, products that practice one or
more claims of the '366 Patent.

58. Defendant is not licensed or otherwise authorized to make, use, offer
for sale, sell or import any products that embody the inventions of the '366 Patent in
the United States.

59. Defendant has and continues to directly infringe one or more claims of
the '366 Patent, including, for example, claim 1 of the '366 Patent, either literally or
under the doctrine of equivalents, by making, using, offering to sell, selling, and/or
importing into the United States infringing image sensors without authority and in
violation of 35 U.S.C. § 271.

60. With respect to the '366 Patent, Defendant's infringing Image Sensor
 products include OmniVision's "stacked" products, including – for example – the
 following OmniVision products:

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- OmniVision OS12D40
- OmniVision OH01A10
- OmniVision OV48C
- OmniVision OV50A
- OmniVision OV23850

9 61. Defendant's infringing products further include any other OmniVision
10 chips in various camera modules that may or may not have OmniVision part
11 numbers, but are made by with a similar structure as the above OmniVision Image
12 Sensors (collectively, the "'366 Patent Infringing Products").

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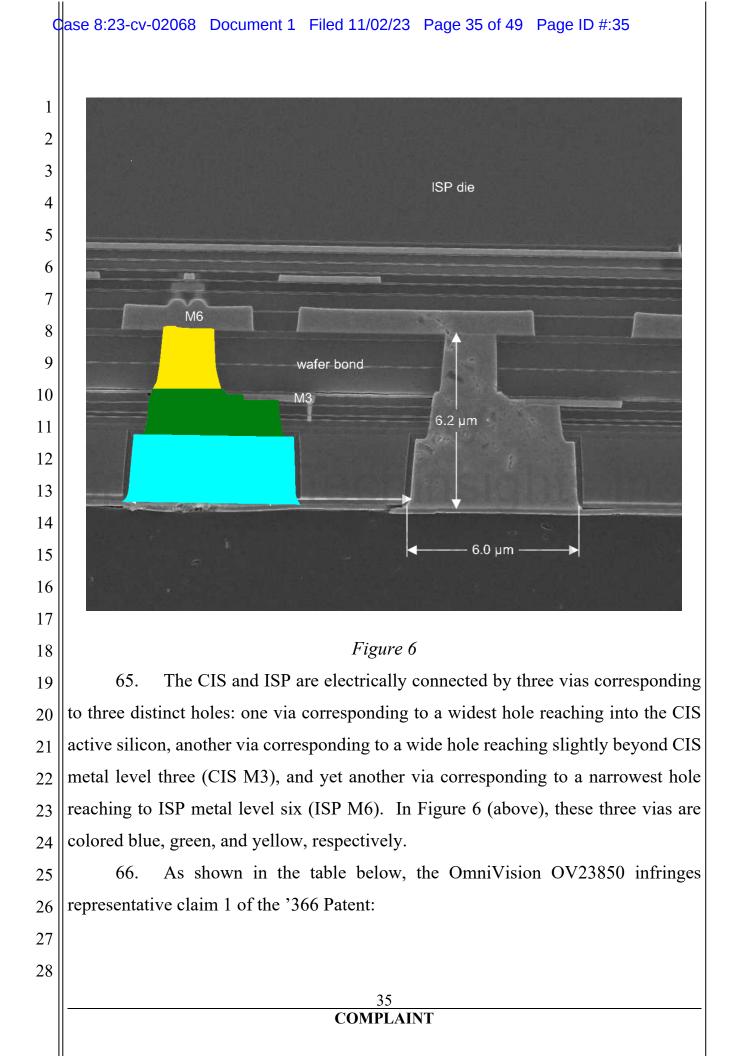
14

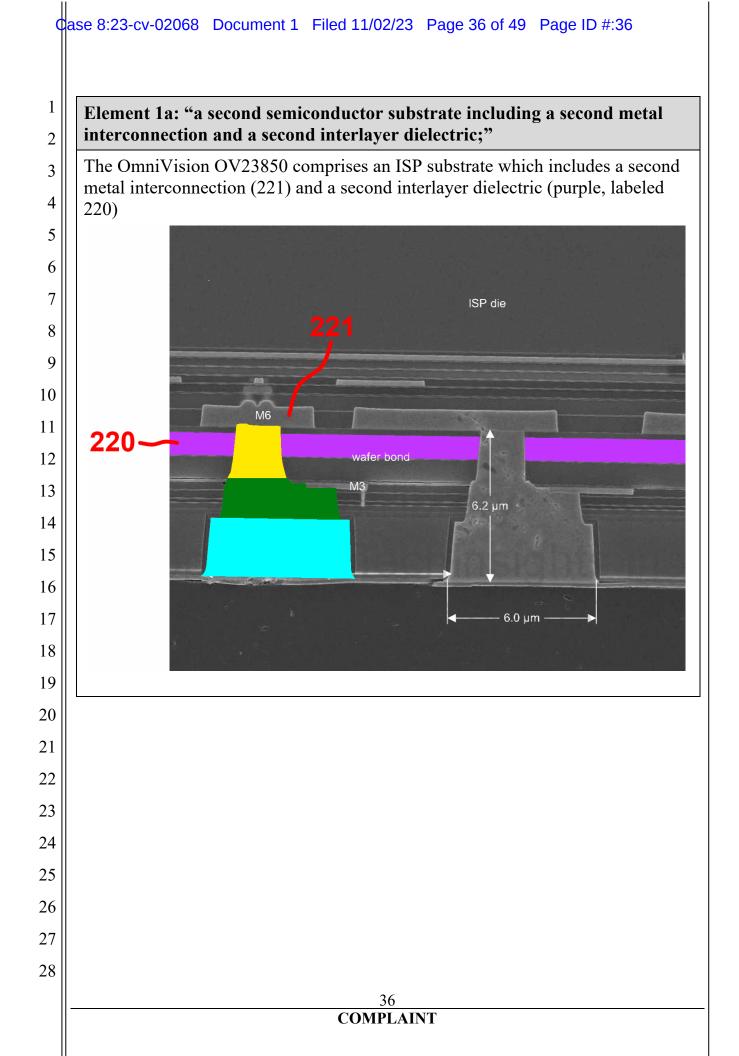
62. For example, the OmniVision OV23850 image sensor infringes representative claim 1 of the '366 Patent.

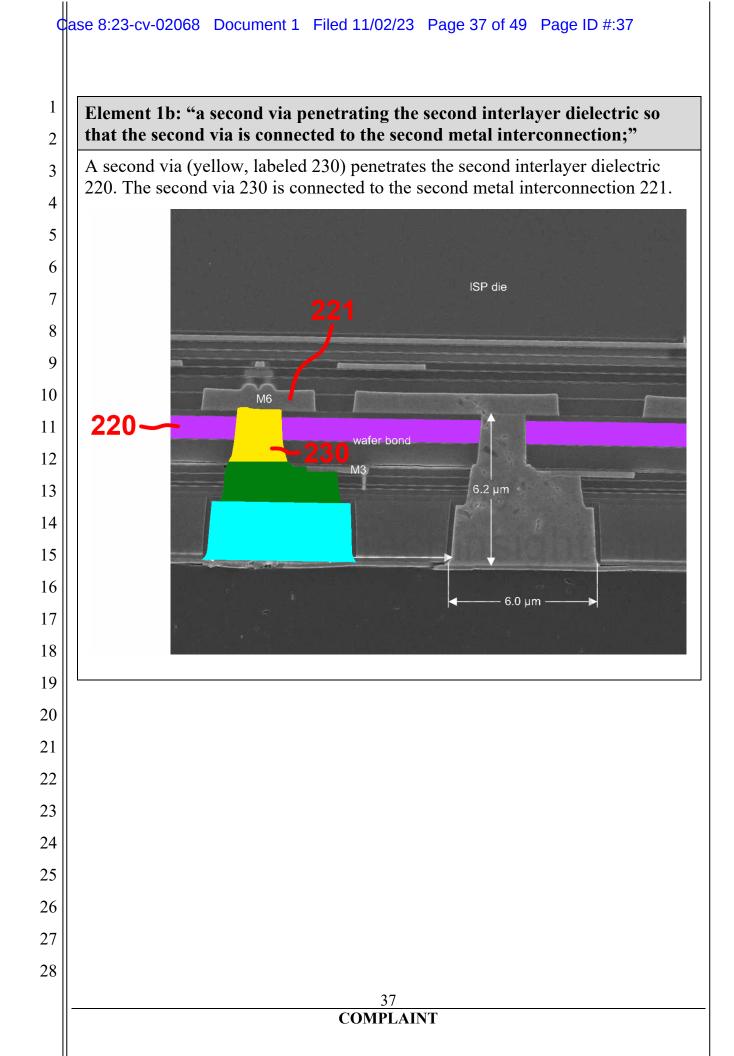
15 63. Claim 1 of the '366 Patent claims an image sensor, comprising: a second semiconductor substrate including a second metal interconnection and a 16 second interlayer dielectric; a second via penetrating the second interlayer dielectric 17 so that the second via is connected to the second metal interconnection; a first 18 19 semiconductor substrate on the second interlayer dielectric, the first semiconductor substrate having a unit pixel; a pre-metal dielectric on the first semiconductor 20 21 substrate; a first via penetrating the pre-metal dielectric and the first semiconductor substrate, the first via being connected to the second via; a first interlayer dielectric 22 23 on the pre-metal dielectric including the first via; a first metal interconnection on the 24 first interlayer dielectric and connected to the first via and the unit pixel; a conductive barrier layer on the first metal interconnection; and a color filter and a 25 microlens on the first interlayer dielectric on the unit pixel. 26

64. The OmniVision OV23850 chip includes stacked CIS and ISP. Figure
6 (below) illustrates an exemplary cross-section of the stacked CIS and ISP.

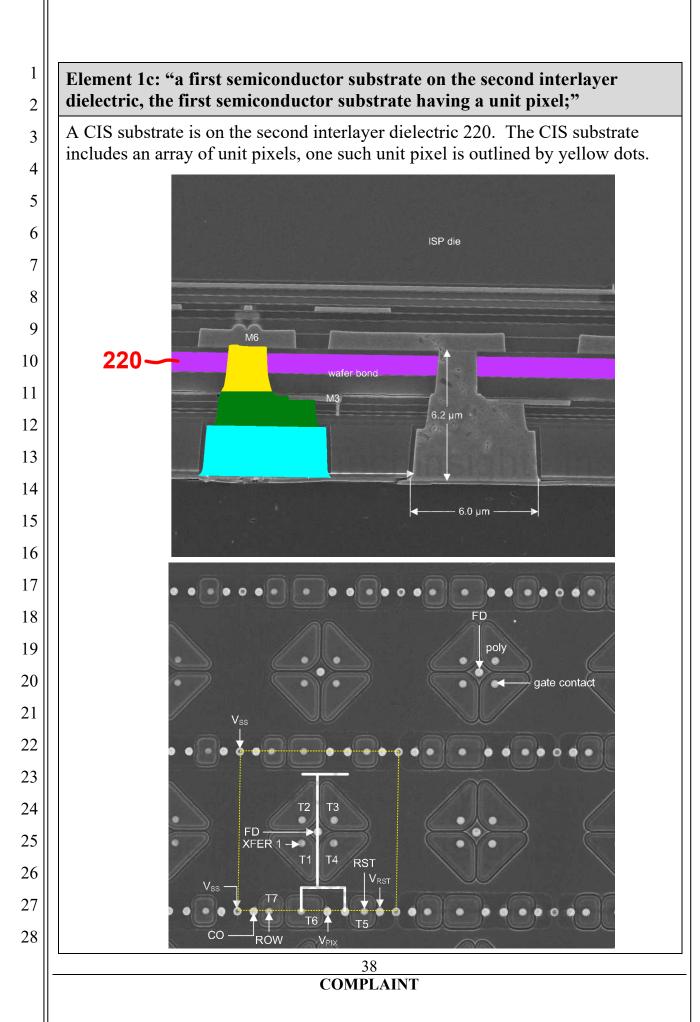
34 COMPLAINT

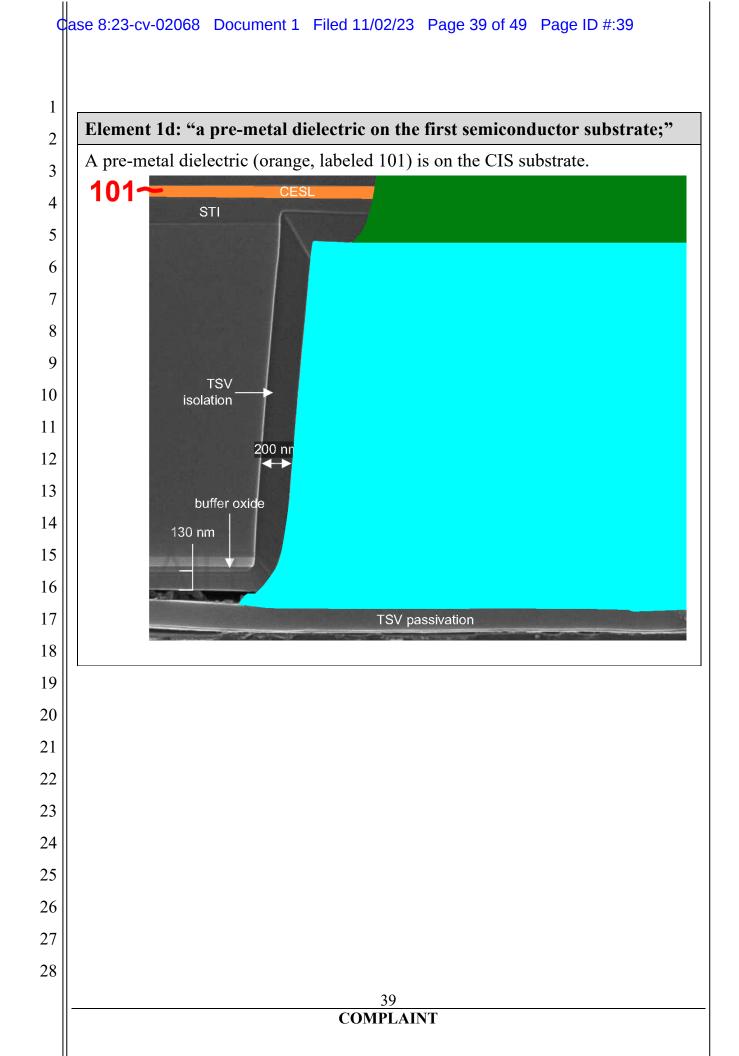




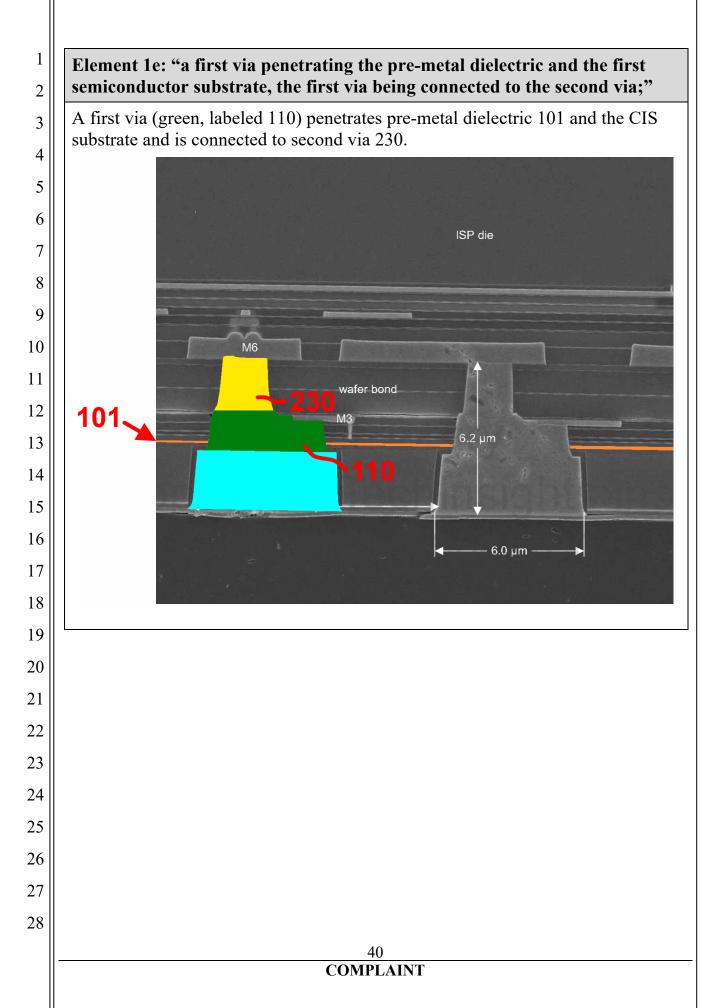


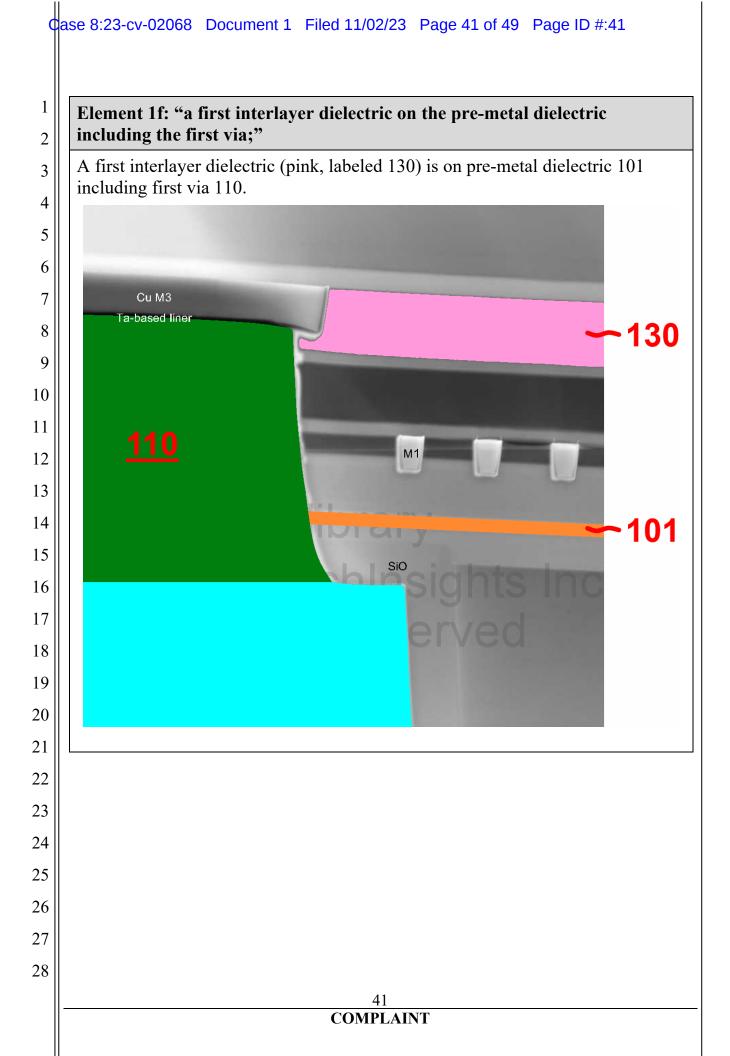


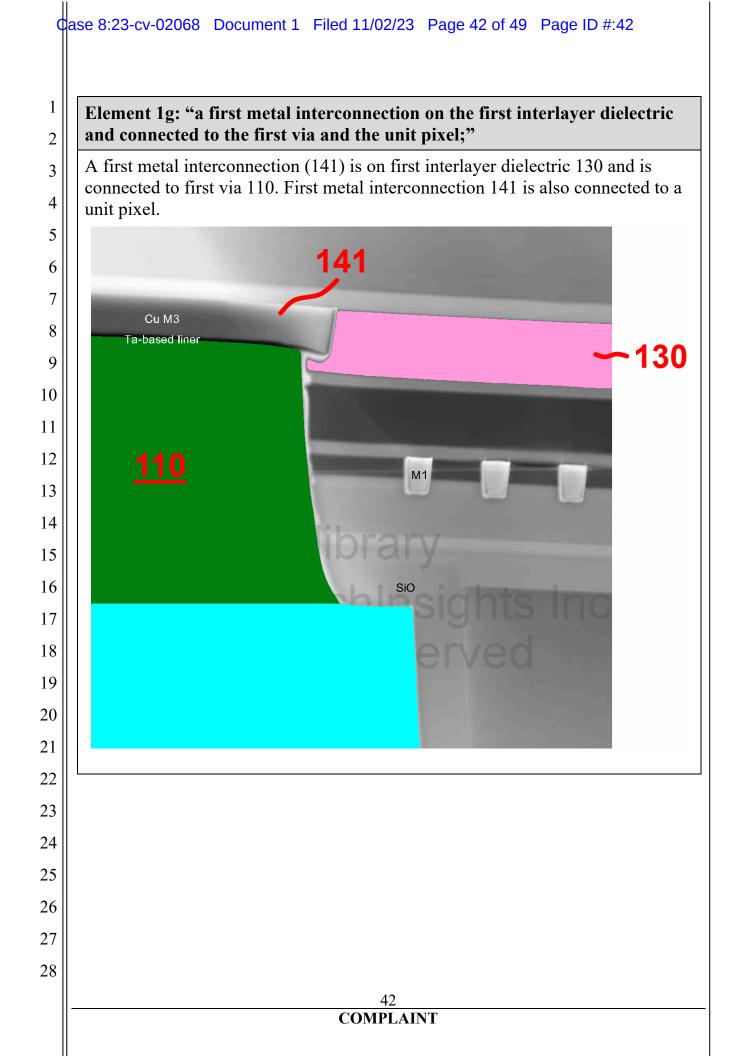




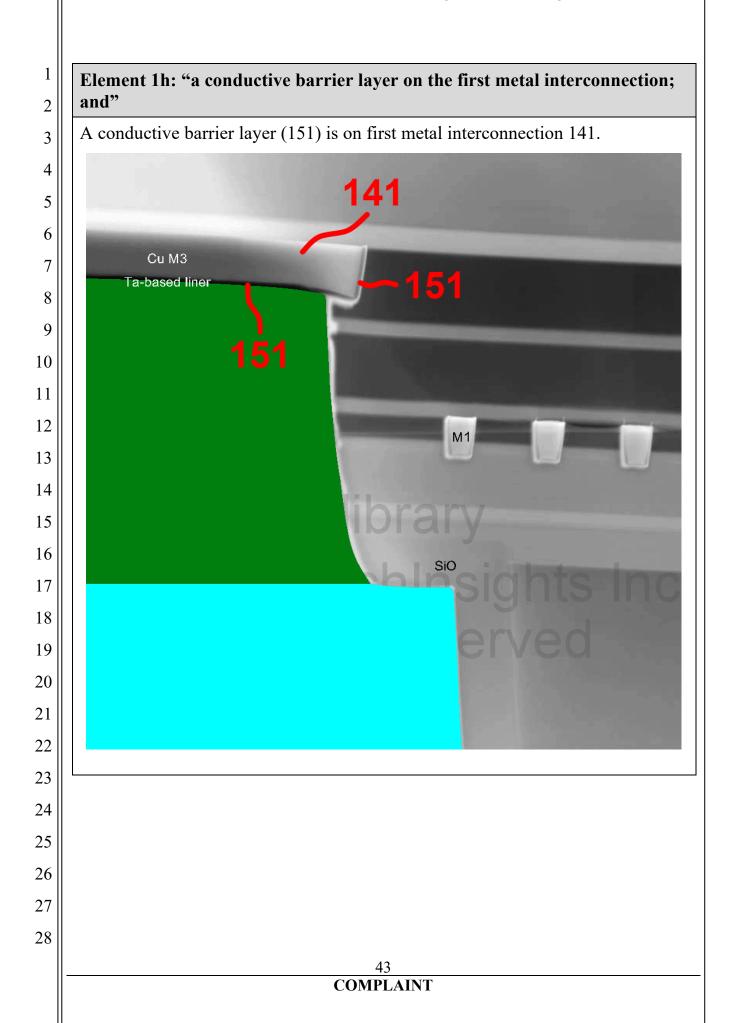


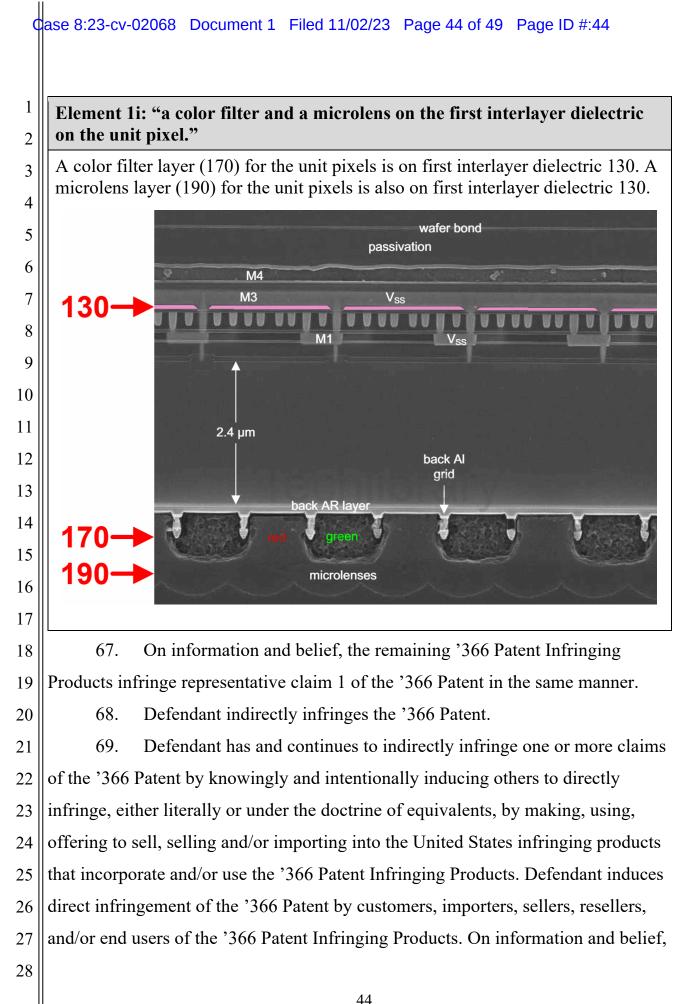












1 the direct infringers include, for example, Microsoft Corporation<sup>49</sup>, Dell Technologies, Inc.<sup>50</sup>, Tesla, Inc.<sup>51</sup>, Lenovo Group Ltd.<sup>52</sup>, Qualcomm Incorporated (or 2 alternatively Qualcomm Technologies, Inc.)<sup>53</sup>, Nokia Corporation<sup>54</sup>, ASUSTeK 3 Computer Inc.<sup>55</sup>, Motorola Mobility LLC<sup>56</sup>, BLU Products Inc.<sup>57</sup>, Arlo 4 Technologies, Inc.<sup>58</sup>, Ring LLC<sup>59</sup>, HTC Corporation<sup>60</sup>, Leopard Imaging Inc.<sup>61</sup>, 5 Reolink Innovation Limited<sup>62</sup>, VisionMeta<sup>63</sup>, Huawei, Xiaomi, TCL, Gionee, 6 OnePlus, Guangdong Oppo Mobile Telecommunications Corp., Ltd.<sup>64</sup>, Honor, 7 Tecno, Qmobile, Allview, Shenzhen Qingzheng Electronic Information Technology 8 9 10 <sup>49</sup> https://electronics360.globalspec.com/article/15250/teardown-microsoft-surface-pro-x 11 <sup>50</sup> https://www.ovt.com/press-releases/dell-selects-omnivisions-ov02c-for-the-mostsuperior-1080p-webcam-performance-in-next-generation-latitude-laptops/ 12 <sup>51</sup> https://teslatap.com/undocumented/ 13 <sup>52</sup> https://www.kimovil.com/en/where-to-buy-lenovo-legion-y70#sec-camera 14 53 https://www.roadtovr.com/htc-vive-lenovo-standalone-headsets-based-qualcommreference-design-components-detailed/ 15 <sup>54</sup> https://nokiamob.net/2023/04/27/nokia-xr21-5g-coming-after-all-not-xr30/ 16 <sup>55</sup> https://www.engadget.com/2017-08-17-asus-zenfone-4-pro-selfie-max-dual-17 camera.html 18 <sup>56</sup> https://www.kimovil.com/en/list-smartphones-by-lens-model/omnivision-ov50a 19 <sup>57</sup> https://www.deviceranks.com/en/phone/4786/blu-pure-xl <sup>58</sup> https://www.burglaryalarmsystem.com/product-news/disassemble-teardown-netgear-20 arlo-battery-powered-wifi-cameras-security-system.html 21 <sup>59</sup> https://www.ovt.com/press-releases/omnivision-provides-ring-producer-of-the-worlds-22 first-battery-operated-wireless-video-doorbell-with-hd-video-recording-and-streamingcapabilities/ 23 <sup>60</sup> https://www.techinsights.com/products/ddt-2206-805 24 <sup>61</sup> https://leopardimaging.com/product/csi-2-mipi-modules-i-pex/csi-2-mipi-25 modules/rolling-shutter-mipi-cameras/2mp-os02c10/li-os02c10-mipi-cs/ <sup>62</sup> https://www.techinsights.com/products/pkg-2201-804 26 <sup>63</sup> https://www.visionmeta.com/product/11m-icatch-v39m-3-axis-anti-shake-eis-gimbal-27 camera-module-for-drone/ 28 <sup>64</sup> https://www.gsmarena.com/oppo reno10-review-2600p5.php 45 COMPLAINT

Co., Ltd.<sup>65</sup>, Xinga Digital Electronic (Shenzhen) Co., Ltd.<sup>66</sup>, Shenzhen ChuangMu 1 Technology Co., Ltd.<sup>67</sup>, Kai Lap Technologies Group Ltd.<sup>68</sup>, Shanghai Belite 2 Technology Co., Ltd.<sup>69</sup>, and Defendant's subsidiary OmniVision Electronics, Inc. 3 Defendant had actual knowledge of the '366 Patent and that the '366 4 70. Patent Infringing Products infringe that patent at least as of November 1, 2023. 5 Accordingly, at least as of that date, Defendant was on notice, knew and/or should 6 have known that its actions induced direct infringement by third parties. 7 8 Accordingly, at least as of that date, Defendant induced infringement by third party 9 direct infringers and should have known that its actions would induce actual 10 infringement. 11 71. Additionally, at the very least Defendant had actual knowledge of the '366 Patent and its infringement of the same as of the date of this Complaint. 12 13 72. Defendant induced infringement by others with the intent to cause infringing acts by others or, in the alternative, with the belief that there was a high 14 probability that others infringe the '366 Patent, but while at best, remaining willfully 15 blind to the infringement. 16

73. On information and belief, Defendant advertises the '366 Patent
Infringing Products, publishes specifications and promotional literature encouraging
customers to implement and incorporate the '366 Patent Infringing Products into
end user products, creates and/or distributes user manuals for the '366 Patent
Infringing Products that provide instructions and/or encourage infringing use, and

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23	<sup>65</sup> https://www.qz-uav	.com/Upload/ei	/editor/file/2023031	1/1678482632263687.jpg
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- 24 <sup>66</sup> https://www.alibaba.com/product-detail/XINGA-XG23-12MP-OS12D40-FF-MF\_1600442097661.html
- <sup>67</sup> http://www.camera-module.com/product/hdrcameramodule/2mp-120db-hdr-camera module-omnivision-os02c10.html

27 <sup>68</sup> http://japanese.kailaptech.com/Product.aspx?id=2043&11=1413

28 <sup>69</sup> https://www.alibaba.com/product-detail/2MP-OS02C10-USB-Camera-Module-1080P\_1600558712606.html

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## COMPLAINT

offers support and/or technical assistances to its customers that provide instructions
 on and/or encourage infringing use.

74. Defendant encourages and facilitates its customers to infringe the '366
Patent by promoting the '366 Patent Infringing Products, for example, on
Defendant's website.

6 75. Defendant's customers that incorporate the '366 Patent Infringing
7 Products into other products (e.g., smartphones, vehicles, security cameras, lap tops,
8 virtual reality (VR) and augmented reality (AR) headsets and eye glasses, medical
9 imaging, optical inspection systems, other machine vision applications, etc.) as well
10 as the end users of those products, each directly infringe the Asserted Patents
11 pursuant to OmniVision's instructions and advertisements.

12 76. Defendant's customers that incorporate the '366 Patent Infringing
13 Products into other products (e.g., smartphones, vehicles, etc.) as well as the end
14 users of those products, each directly infringe the Asserted Patents pursuant to
15 OmniVision's instructions and advertisements.

16

## PRAYER FOR RELIEF

WHEREFORE, VisionX requests entry of judgment in its favor and against
Defendant as follows:

a) A declaration that Defendant has directly infringed one or more claims
of the Asserted Patents, either literally or under the doctrine of
equivalents;

b) A declaration that Defendant has induced infringement and/or are
inducing infringement of one or more claims of the Asserted Patents,
either literally or under the doctrine of equivalents;

c) An award of damages pursuant to 35 U.S.C. § 284 adequate to
compensate VisionX for Defendant's infringement of the Asserted
Patents in an amount according to proof at trial (together with
prejudgment and post-judgment interest), but no less than a reasonable

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1		royalty;	
2	d)	Injunctive relief against further infringement of the Asserted Patents;	
3	e)	An award of costs and expenses pursuant to 35 U.S.C. § 284 or as	
4		otherwise permitted by law; and	
5	f)	Such other and further relief, whether legal, equitable, or otherwise, to	
6		which VisionX may be entitled or which this Court may order.	
7			
8	Dated: Nov	vember 2, 2023 ONE LLP	
9		By: /s/ Peter R. Afrasiabi	
10		Peter R. Afrasiabi Joseph K. Liu	
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12		Attorneys for Plaintiff, VisionX Technologies, LLC	
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1	JURY DEMAND			
2	VisionX hereby demands a trial by jury on all issues so triable.			
3				
4	Dated: November 2, 2023 ONE LLP			
5	By: <u>/s/ Peter R. Afrasiabi</u>			
6	Peter R. Afrasiabi			
7	Joseph K. Liu			
8	Attorneys for Plaintiff,			
9	VisionX Technologies, LLC			
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