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17		
18	UNITED STA	TES DISTRICT COURT
19	FOR THE CENTRAI	DISTRICT OF CALIFORNIA
20		
21	POLARIS POWERLED	Case No. 8:18-cv-01571-JVS (DFMx)
	TECHNOLOGIES, LLC,	
22	Plaintiff,	THIRD AMENDED COMPLAINT
23	V.	FOR PATENT INFRINGEMENT
24		DEMAND FOR JURY TRIAL
25	VIZIO, INC.,	
26	Defendant.	
27		
28		THIRD AMENDED COMMAND

THIRD AMENDED COMPLAINT CASE NO. 8:18-cv-01571-JVS-DFMx

Plaintiff Polaris PowerLED Technologies, LLC ("Polaris PowerLED"), by and through its undersigned counsel, files this Third Amended Complaint for Patent Infringement relating to two U.S. patents as identified below (collectively, the "Patents-in-Suit") and alleges as follows:

THE PARTIES

- 1. Plaintiff Polaris PowerLED Technologies, LLC ("Polaris PowerLED" or "Plaintiff") is a Delaware limited liability company, with its address at 32932 Pacific Coast Highway #14-498, Dana Point, California.
- 2. Defendant VIZIO, Inc. ("VIZIO" or "Defendant"), is a corporation organized under the laws of California with its principal place of business at 39 Tesla, Irvine, CA 92618.

JURISDICTION AND VENUE

- 3. Polaris PowerLED brings this civil action for patent infringement pursuant to the Patent Laws of the United States, 35 U.S.C. § 1, *et seq*. This Court has subject matter jurisdiction over this action pursuant to 28 U.S.C. §§ 1331 and 1338(a).
- 4. Upon information and belief, Defendant VIZIO transacts and conducts business in this District and State of California, and is subject to the personal jurisdiction of this Court. Upon information and belief, VIZIO has minimum contacts within the State of California and this District and has purposefully availed itself of the privileges of conducting business in the State of California and in this District. Polaris PowerLED's causes of action arise directly from VIZIO's business contacts and other activities in the State of California and in this District.
- 5. Upon information and belief, VIZIO has committed acts of infringement within this District and the State of California by, *inter alia*, using, selling, offering for sale, importing, advertising, and/or promoting products that infringe one or more claims of the Patents-in-Suit. More specifically, VIZIO,

directly and/or through intermediaries, uses, sells, ships, distributes, offers for sale, advertises, and otherwise promotes its products in the United States, the State of California, and this District. Upon information and belief, VIZIO solicits customers in the State of California and this District, and has customers who are residents of the State of California and this District and who use VIZIO's products in the State of California and in this District.

6. Venue is proper in this district under 28 U.S.C. §§ 1391(b), (c) and 1400(b), including based on VIZIO's physical presence and headquarters being located in this district.

THE PATENTS-IN-SUIT

- 7. Polaris PowerLED owns the entire right, title, and interest in U.S. Patent No. 7,239,087 entitled "Method and Apparatus to Drive LED Arrays Using Time Sharing Technique" (the '087 Patent). The '087 Patent issued on July 3, 2007 to inventor Newton E. Ball from the U.S. Patent Application No. 11/011,752, filed on Dec. 14, 2004. A true and correct copy of the '087 Patent is attached as **Exhibit A** to this Complaint.
- 8. Polaris PowerLED owns by the entire right, title, and interest in U.S. Patent No. 8,223,117 entitled "Method and Apparatus to Control Display Brightness with Ambient Light Correction" (the '117 Patent). The '117 Patent issued on July 17, 2012 to inventor Bruce R. Ferguson from the U.S. Patent Application No. 12/336,990, filed on Dec. 17, 2008. A true and correct copy of the '117 Patent is attached as **Exhibit B** to this Complaint.

COUNT I

(INFRINGEMENT OF U.S. PATENT NO. 7,239,087)

- 9. Polaris PowerLED incorporates by reference paragraphs 1-8 above.
- 10. Mr. Newton E. Ball invented a novel manner of arranging and controlling light sources that was a significant advance in improving display quality

in electronics products such as televisions. Mr. Ball patented these innovations in the '087 patent.

- 11. VIZIO has directly infringed and continues to directly infringe the '087 patent by making, using, offering for sale, selling and/or importing into the United States televisions, including, for example, VIZIO's D-series, E-Series, M-Series, and P-Series TVs, and other consumer electronics display products. The Accused Instrumentalities include, without limitation, the VIZIO P-Series, M-Series, D-Series, and E-Series TVs. These series of televisions include, for example, the following exemplary models: P55RED-F1, PQ65-F1, P55-F1, P55-E1, P65-F1 and P75-F1 models, M50-E1, M55-E0, M55-F0, M65-E0, and M70-F3 models, E43-F1, E48-D0, E50-F2, E50-E1, E55-F1, E55-E2, E60-E3, E65-F1, E65-F0, E65-E1, E70-F3, E70-E3, E75-F2, E75-E1, E75-E3, and E80-E3 models, D65-E0. The exemplary non-exhaustive list of devices stated in this paragraph are collectively referred to in this Count and in this Complaint as the "Accused Products." VIZIO's infringement includes infringement of at least claims 1-7, and 9-11 of the '087 Patent.
 - 12. Claim 1 of the '087 Patent, for example, reads as follows:

 1. A multi-load time sharing driver comprising:

 a current source configured to provide a regulated current;

 a network of semiconductor switches coupled in series; and

 a plurality of light sources in a backlight system, each light source

 associated with a semiconductor switch, wherein the semiconductor

 switch selectively opens to allow the associated light source to conduct
 the regulated current.
- 13. VIZIO has directly infringed and continues to directly infringe one or more claims of the '087 patent, including at least claim 1 of the '087 Patent, literally and/or under the doctrine of equivalents, by or through making, using,

offering for sale, selling within the United States, and/or importing the Accused Products.

- 14. The Accused Products have "a multi-load time sharing driver comprising: a current source configured to provide a regulated current." The Accused Products include, for example, a boost controller chip that is coupled to a power supply via a LED connection port. The power supply, working with one or more wide input boost controller chips, provides a regulated current.
- 15. The Accused Products have "a network of semiconductor switches coupled in series." For instance, the Accused Products include one or more LED TV backlight controllers connected to multiple LED strings. Moreover, the LED TV backlight controller in the Accused Products are coupled to one or more semiconductor switches that are connected in series to other semiconductor switches.
- 16. The Accused Products have "a plurality of light sources in a backlight system, each light source associated with a semiconductor switch, wherein the semiconductor switch selectively opens to allow the associated light source to conduct the regulated current." The light sources in the Accused Products are connected, for example, to an LED TV backlight controller and power supply such that semiconductor switches can be selectively opened to allow the associated light source to conduct the regulated current. Each of the switches open to allow an associated light source to conduct regulated current, and when not open, the associated light source will not conduct the regulated current through the associated light sources. For example, each switch may be a transistor which is controlled via the gate terminal of the transistor. Each switch is coupled to a light source via the source or drain terminals of the transistor. The switch will open or close depending on the voltage at the gate of the associated switch, thereby controlling the associated light source for that switch.

17. VIZIO's product literature and user manuals for VIZIO's E-, P-, D-, and M-Series TVs explain and instruct customers as follows:

Adjusting More Picture Settings

To adjust more picture settings:

- From the PICTURE menu, use the Arrow buttons to highlight More Picture, and then press OK.
- Use the Arrow buttons to highlight the setting you wish to adjust, then press the Left/ Right Arrow buttons to change the setting:
 - Color Temperature See Adjusting the Color
 Temperature on this page.
 - Black Detail Adjusts the average brightness of the picture to compensate for large areas of brightness.
 Select Off, Low, Medium, or High.

More Picture	e Back
Color Temperature	Normal
Black Detail	Off
Active LED Zones	On
Clear Action	Off
Reduce Noise	
Game Low Latency	Off
Pure Cinema	Auto
Color Space	Auto
Gamma	2.1

- Active LED Zones Dynamically improves the contrast ratio
 of the picture by adjusting the backlight. The adjustment is
 controlled by the content on the screen. Select On or Off.
- Clear Action Reduces blur in scenes with fast action.
 Some sensitive viewers may notice flickering. Select On or Off.
- Reduce Noise Opens a sub-menu with two settings:
 - Reduce Signal Noise Diminishes artifacts in the image caused by the digitizing of image motion content. Select Off, Low, Medium, or High.
 - Reduce Block Noise Reduces pixelation and distortion for mpeg files. Select Off, Low, Medium, or High.
- Game Low Latency Select On to reduce video delay (lag) when gaming.

https://cdn.vizio.com/manuals/kb/mxxexmanual.pdf?language=en_US (p. 14)

1	Adjusting More Picture Settings	
2	To adjust more picture settings: 1. From the PICTURE menu, use the	More Picture +Back
	Arrow buttons to highlight More Picture, and then press OK.	Color Temperature Normal
3	2. Use the Arrow buttons to	Black Detail Off Extreme Black Engine* Low
4	highlight the setting you wish to adjust, then press the Left/	Clear Action Off
_	Right Arrow buttons to change the setting:	Reduce Noise Game Low Latency Off
5	Color Temperature - See Adjusting the Color	Film Mode On Color Space Auto
6	Temperature. • Black Detail - Adjusts the	Gamma 2.2
7	average brightness of the picture to compensate for large areas of brightness. Select Off, Low, Medium, or	
8	High. • Xtreme Black Engine™ - Based (on the content, dynamically
9	adjusts and balances the brightn of the picture by locally adjusting • Clear Action - Reduces blur in so	ness and the contrast ratio g backlight zones.
10	limtis the range for the Backlight • Reduce Noise	t setting.
11	- Reduce Signal Noise - D image caused by the digitizing of Select Off, Low, Medium, or Hig	f image motion content. th.
12	- Reduce Block Noise - Re distortion for mpeg files. Select (
13	http://cdn.vizio.com/manuals/kb/e65f1man	nual.pdf?language=en_US (p. 15)
14	Video	
15	TIGO	
15 16	Class Size	65.00"
16		65.00" 64.50"
16 17	Class Size	
16	Class Size Screen Size (Diag.)	64.50"
16 17	Class Size Screen Size (Diag.) Display Processor	64.50" V8 Octa-Core Processor
16 17 18 19	Class Size Screen Size (Diag.) Display Processor Backlight Type	64.50" V8 Octa-Core Processor Full Array LED
16 17 18 19 20	Class Size Screen Size (Diag.) Display Processor Backlight Type Local Dimming Zones	64.50" V8 Octa-Core Processor Full Array LED Yes with Active LED Zones® x 12
16 17 18 19	Class Size Screen Size (Diag.) Display Processor Backlight Type Local Dimming Zones Resolution	64.50" V8 Octa-Core Processor Full Array LED Yes with Active LED Zones® x 12 Ultra HD - 3840 x 2160
16 17 18 19 20 21	Class Size Screen Size (Diag.) Display Processor Backlight Type Local Dimming Zones Resolution Effective Refresh Rate	64.50" V8 Octa-Core Processor Full Array LED Yes with Active LED Zones® x 12 Ultra HD - 3840 x 2160 120Hz
16 17 18 19 20 21 22	Class Size Screen Size (Diag.) Display Processor Backlight Type Local Dimming Zones Resolution Effective Refresh Rate Clear Action™	64.50" V8 Octa-Core Processor Full Array LED Yes with Active LED Zones® x 12 Ultra HD - 3840 x 2160 120Hz 180
16 17 18 19 20 21	Class Size Screen Size (Diag.) Display Processor Backlight Type Local Dimming Zones Resolution Effective Refresh Rate Clear Action™ Aspect Ratio	64.50" V8 Octa-Core Processor Full Array LED Yes with Active LED Zones® x 12 Ultra HD - 3840 x 2160 120Hz 180 16:9
16 17 18 19 20 21 22	Class Size Screen Size (Diag.) Display Processor Backlight Type Local Dimming Zones Resolution Effective Refresh Rate Clear Action™ Aspect Ratio Dynamic Contrast Ratio	64.50" V8 Octa-Core Processor Full Array LED Yes with Active LED Zones® x 12 Ultra HD - 3840 x 2160 120Hz 180 16:9 5M:1 178°/178° 1.07Billion
16 17 18 19 20 21 22 23 24	Class Size Screen Size (Diag.) Display Processor Backlight Type Local Dimming Zones Resolution Effective Refresh Rate Clear Action™ Aspect Ratio Dynamic Contrast Ratio Viewable Angle (H/V)	64.50" V8 Octa-Core Processor Full Array LED Yes with Active LED Zones® x 12 Ultra HD - 3840 x 2160 120Hz 180 16:9 5M:1 178°/178°
16 17 18 19 20 21 22 23 24 25	Class Size Screen Size (Diag.) Display Processor Backlight Type Local Dimming Zones Resolution Effective Refresh Rate Clear Action™ Aspect Ratio Dynamic Contrast Ratio Viewable Angle (H/V) Number of Colors OSD Language	V8 Octa-Core Processor Full Array LED Yes with Active LED Zones® x 12 Ultra HD - 3840 x 2160 120Hz 180 16:9 5M:1 178°/178° 1.07Billion English, Spanish, French
16 17 18 19 20 21 22 23 24 25 26	Class Size Screen Size (Diag.) Display Processor Backlight Type Local Dimming Zones Resolution Effective Refresh Rate Clear Action™ Aspect Ratio Dynamic Contrast Ratio Viewable Angle (H/V) Number of Colors	V8 Octa-Core Processor Full Array LED Yes with Active LED Zones® x 12 Ultra HD - 3840 x 2160 120Hz 180 16:9 5M:1 178°/178° 1.07Billion English, Spanish, French
16 17 18 19 20 21 22 23 24 25	Class Size Screen Size (Diag.) Display Processor Backlight Type Local Dimming Zones Resolution Effective Refresh Rate Clear Action™ Aspect Ratio Dynamic Contrast Ratio Viewable Angle (H/V) Number of Colors OSD Language	V8 Octa-Core Processor Full Array LED Yes with Active LED Zones® x 12 Ultra HD - 3840 x 2160 120Hz 180 16:9 5M:1 178°/178° 1.07Billion English, Spanish, French

Off

Auto

More Picture

Black Detail

Color Temperature

Reduce Judder

Clear Action

Film Mode

Color Space

Reduce Motion Blur

Game Low Latency

Xtreme Black Engine Pro*

Adjusting More Picture Settings

To adjust more picture settings:

- From the PICTURE menu, use the Arrow buttons to highlight More Picture, and then press OK.
- Use the Arrow buttons to highlight the setting you wish to adjust, then press the Left/ Right Arrow buttons to change the setting:
 - Color Temperature -See Adjusting the Color Temperature.
 - Black Detail Adjusts the average brightness of the picture to compensate for large areas of brightness.
 Select Off, Low, Medium, or High.
 - Xtreme Black Engine Pro[™] Based on the content, dynamically adjusts and balances the brightness and the contrast ratio of the picture by locally adjusting backlight zones.
 - Reduce Judder Increases frame rate to reduce judder for film and 30 hertz video. As the setting increases, judder is reduced.
 - Reduce Motion Blur Increases frame rate to reduce motion blur of 60 hertz video. As the setting increases, motion blur is reduced.
 - . Clear Action Reduces blur in scenes with fast action but

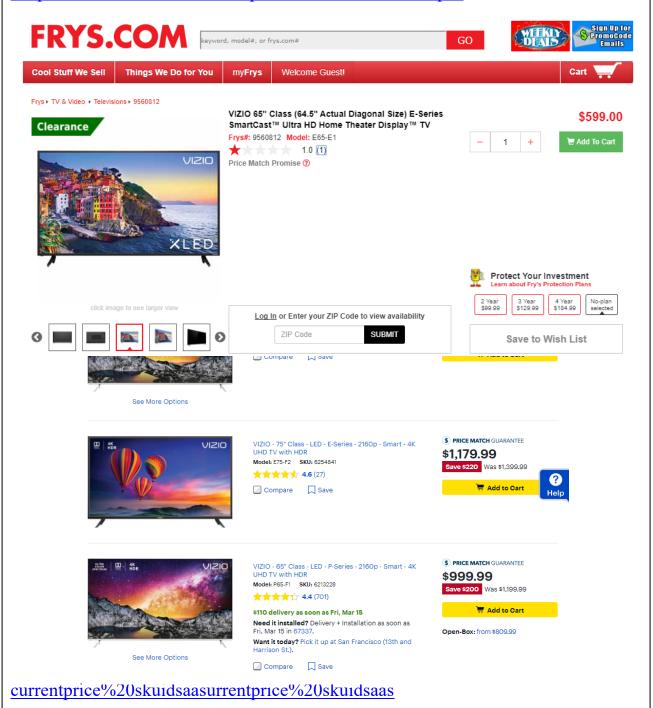
limtis the range for the Backlight setting.

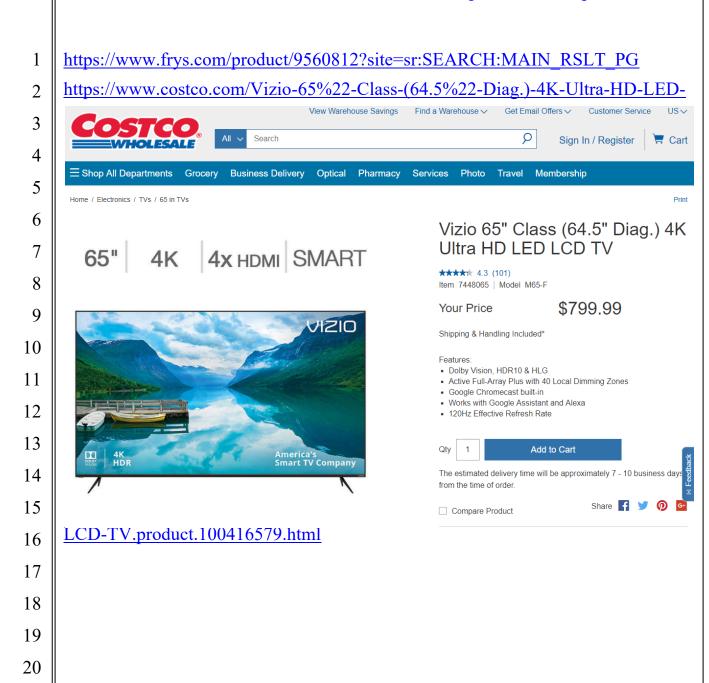
- Reduce Noise Opens a sub-menu with two settings:
- Reduce Signal Noise Diminishes artifacts in the image caused by the digitizing of image motion content.
 Select Off, Low, Medium, or High.
- Reduce Block Noise Reduces pixelation and distortion for mpeg files. Select Off, Low, Medium, or High.
- Game Low Latency Select On to reduce video delay (lag) when gaming.
- Film Mode Optimizes the picture for watching film. Select Auto or Off.
- Color Space Select Color Space for the source. Video sources uses YCbCr, but PC uses RGB.
- Gamma Set the shape of the Gamma curve. Use lower Gamma values for bright room conditions, and higher values when it's dark.
- 3. When you have finished adjusting More Picture Settings, press the **Exit** button on the remote.

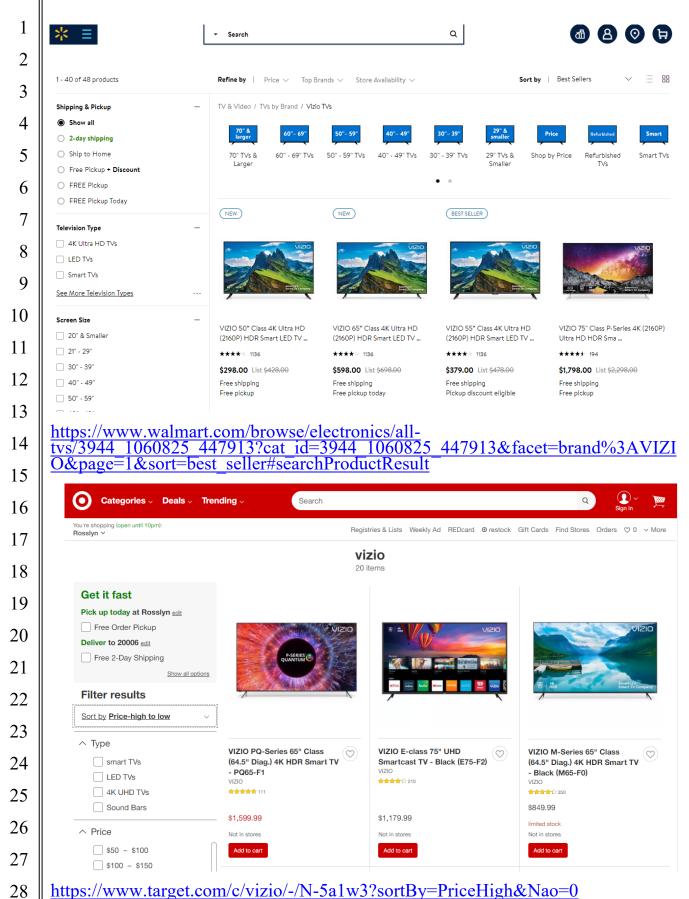
https://cdn.vizio.com/user-manual/PDF/2018/TV/P-Series_UM_ENG.pdf (p. 15)

18. VIZIO sells and promotes its products through third parties, such as retail stores in the United States. These third parties include, but are not limited to, retailers such as Best Buy, Costco, Fry's Electronics, Amazon and Target.

https://www.bestbuy.com/site/vizio/vizio-flat-panel-tvs/pcmcat300100050010.c?id=pcmcat300100050010&sp=-







v-3a1w3:soltBy-11lccffigh&fvao-0

- 19. VIZIO's infringement is further detailed in **Exhibit C** attached hereto.
- 20. As a result of VIZIO's infringement of the '087 Patent, Polaris PowerLED has suffered monetary damages and is entitled to no less than a reasonable royalty for VIZIO's use of the claimed inventions of the '087 Patent, together with interest and costs as determined by the Court. Polaris PowerLED will continue to suffer damages in the future unless VIZIO's infringing activities are enjoined by this Court.
- 21. Polaris PowerLED will be irreparably harmed unless a permanent injunction is issued, enjoining VIZIO and their agents, employees, representatives, affiliates, and others acting in concert with VIZIO from infringing the '087 Patent.

COUNT II

(INFRINGEMENT OF U.S. PATENT NO. 8,223,117)

- 22. Polaris PowerLED incorporates by reference paragraphs 1-21 above.
- 23. Mr. Bruce Ferguson invented a novel manner of adjusting the brightness of a display screen in response to ambient light, conserving power, reducing eye strain, and significantly improving the experience of the user. His inventions were a significant advance in the field of display technology, power conservation and power control for electronics products, including televisions and other devices. Mr. Ferguson patented these innovations in the '117 Patent.
- 24. VIZIO has directly infringed and continues to directly infringe the '117 patent by making, using, offering for sale, selling and/or importing into the United States televisions, including, for example, VIZIO's D-Series, E-Series, M-Series, and P-Series TVs), and other consumer electronics display products. The series of televisions include for example the following non-exhaustive list of models of VIZIO televisions: P55RED-F1, PQ65-F1, P55-F1, P55-E1, P65-F1, P65-E1 and P75-F1, M50-E1, M55-E0, M55-F0, M65-E0, M65-F0, and M70-F3, E43-F1, E48-D0, E50-F2, E50-E1, E55-F1, E55-E2, E60-E3, E65-F1, E65-F0,

E65-E1, E70-F3, E70-E3, E75-F2, E75-E1, E75-E3, and E80-E3, D24hn-G9, D40f-G9, D55x-G1, D24h-G9, D50x-G0, D65x-G4, D70-F3, D65-F1, D60-F3, D55-F2, D50-F1, D50f-F1, D48f-F0, D43-F1, D43f-F1, D40f-F1, D39f-F1, D34f-F1, D32h-F0, D24f-F1D32hn-E4, D32hn-E4, D55un-E1, D65-E0. The non-exhaustive list of exemplary devices listed in this paragraph are collectively referred to in this Count as the "Accused Products."

- 25. In Claim 1 of the '117 Patent, for example, reads as follows:
- 1. A brightness control circuit with selective ambient light correction comprising:

a first input configured to receive a user signal indicative of a user selectable brightness setting;

a light sensor configured to sense ambient light and to output a sensing signal indicative of the ambient light level;

a multiplier configured to selectively generate a combined signal based on both the user signal and the sensing signal; and

a dark level bias configured to adjust the combined signal to generate a brightness control signal that is used to control a brightness level of a visible display such that the brightness control signal is maintained above a predetermined level when the ambient light level decreases to approximately zero.

- 26. VIZIO has directly infringed and continues to directly infringe one or more claims of the '117 patent, including at least claims 1, 2, 4-7, 9, 13-16, and 18 of the '117 Patent, literally and/or under the doctrine of equivalents, by or through making, using, offering for sale, selling within the United States, and/or importing the Accused Products.
- 27. The Accused Products have "a brightness control circuit with selective ambient light correction comprising: a first input configured to receive a user signal indicative of a user selectable brightness setting," including auto brightness control, backlight and brightness circuitry, and associated user signals.

- 28. The Accused Products have "a light sensor configured to sense ambient light and to output a sensing signal indicative of the ambient light level" as shown below. The front portion of the Accused Products include an ambient light sensor. The ambient light sensor is connected to the main board in the exemplary VIZIO D-Series TV, for example.
- 29. The Accused Products have "a multiplier configured to selectively generate a combined signal based on both the user signal and the sensing signal." The Accused Products include a multiplier implemented at least in part in software to generate a combined signal based on the user signal, which includes the brightness setting input by a user, and a sensing signal, including signaling from a light sensor.
- 30. The Accused Products have "a dark level bias configured to adjust the combined signal to generate a brightness control signal that is used to control a brightness level of a visible display such that the brightness control signal is maintained above a predetermined level when the ambient light level decreases to approximately zero." The source code and/or hardware included in the Accused Products with associated components that adjusts a signal that controls the brightness of the Accused Products maintaining the brightness level of the display above a predetermined level when the ambient brightness is approximately zero.
- 31. VIZIO's product literature and user manuals for VIZIO's D-, E-, M-, and P-Series products explain and instruct customers as follows:
 - 4. To manually change each of the picture settings, use the Up/ Down Arrow buttons on the remote to highlight that picture setting, then use the Left/Right Arrow buttons to adjust the setting:
 - Auto Brightness Control The auto brightness control detects the light levels in the room and automatically adjusts the backlight for the best picture. Select Off, Low, Medium, or High.

http://cdn.vizio.com/documents/pseries2018/RS12212 P55-F1 P65-F1 P75-F1 UM 2018 ENG draft 02222018.pdf?language=en US (P65-F1 User Manual, p.14); https://cdn.vizio.com/user-manual/PDF/2018/TV/D-Series UHD UM ENG.pdf (D65-F1 User Manual, p.14); https://cdn.vizio.com/manuals/kb/mxxexmanual.pdf?language=en US (M50-E1 User Manual, p.13); http://cdn.vizio.com/manuals/kb/e65f1manual.pdf?language=en US (E65-F1 User Manual, p.14)

1 VIZIO sells and promotes its products through third parties, such as 32. 2 retail stores in the United States. These third parties include, but are not limited to, 3 Shop VIZIO TVs by Size 4 5 6 7 39"-50" 55"-65" Up to 32' 8 9 Pick Up Today in San Francisco (13th and Harrison St.) (11) 10 11 \$ PRICE MATCH GUARANTEE VIZIO - 75" Class - LED - P-Series - 2160p - Smart - 4K UHD TV with HDR \$1,799.99 12 Model: P75-F1 SKU: 6259874 Save \$200 Was \$1,999.99 *** * * * * * 4.5** (52) 13 Compare Save 14 15 See More Options 16 \$ PRICE MATCH GUARANTEE VIZIO - 75" Class - LED - E-Series - 2160p - Smart - 4K VIZIO 17 UHD TV with HDR \$1,179.99 Model: E75-F2 SKU: 6254841 Save \$220 Was \$1,399.99 **★★★★★ 4.6** (27) 18 Save Compare 19 20 21 \$ PRICE MATCH GUARANTEE VIZIO - 65" Class - LED - P-Series - 2160p - Smart - 4K 22 UHD TV with HDR \$999.99 Model: P65-F1 SKU: 6213228 Save \$200 Was \$1,199.99 23 **★★★★☆ 4.4** (701) \$110 delivery as soon as Fri, Mar 15 24 Need it installed? Delivery + Installation as soon as Fri, Mar 15 in 67337. Open-Box: from \$809.99 Want it today? Pick it up at San Francisco (13th and 25 See More Options Compare Save 26

Best Buy, Costco, Fry's Electronics, Amazon, Target, and Walmart. https://www.bestbuy.com/site/vizio/vizio-flat-panel-

27

28

70" or Larger

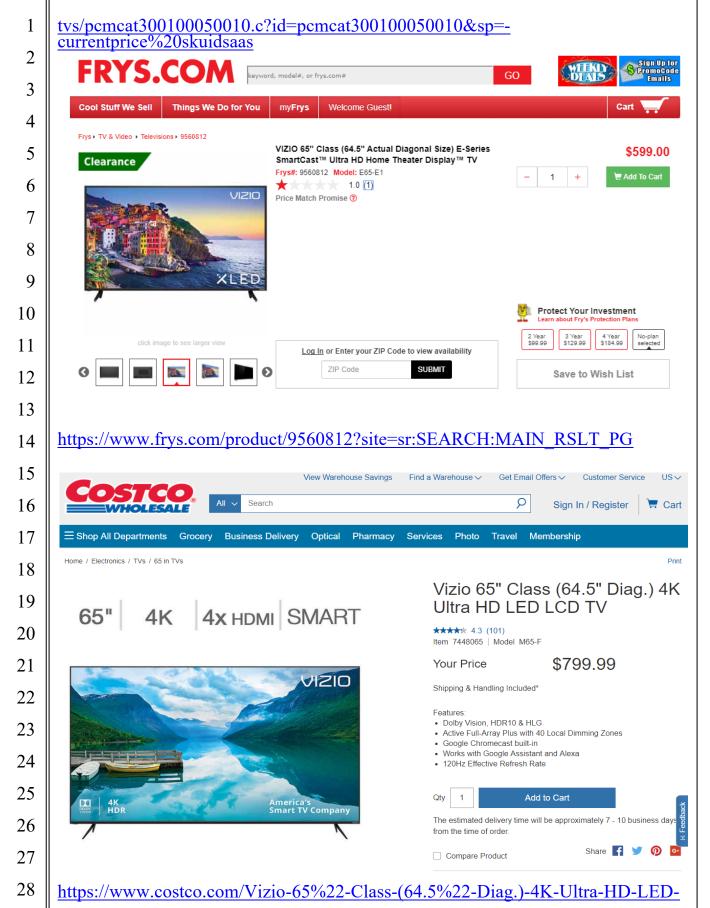
Price High to Low

Add to Cart

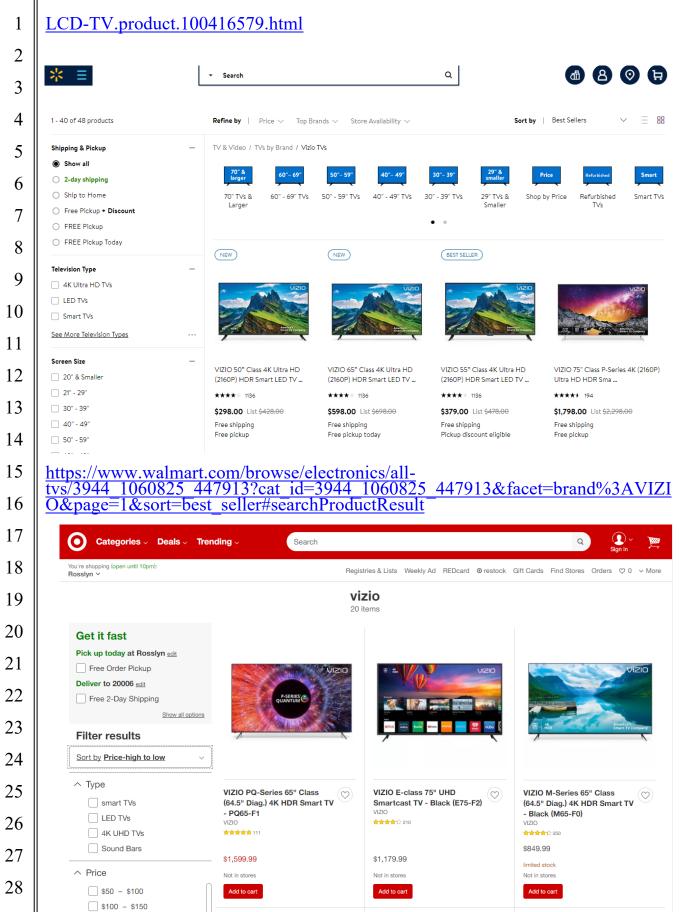
😾 Add to Cart

Add to Cart

Help



- 17 - THIRD AMENDED COMPLAINT CASE NO. 8:18-cv-01571-JVS-DFMx



https://www.target.com/c/vizio/-/N-5a1w3?sortBy=PriceHigh&Nao=0

- 33. VIZIO's infringement is further detailed in **Exhibit D** attached hereto.
- 34. As a result of VIZIO's infringement of the '117 Patent, Polaris PowerLED has suffered monetary damages and is entitled to no less than a reasonable royalty for VIZIO's use of the claimed inventions of the '117 Patent, together with interest and costs as determined by the Court. Polaris PowerLED will continue to suffer damages in the future unless VIZIO's infringing activities are enjoined by this Court.
- 35. Polaris PowerLED will be irreparably harmed unless a permanent injunction is issued enjoining VIZIO and their agents, employees, representatives, affiliates, and others acting in concert with VIZIO from infringing the '117 Patent.

PRAYER FOR RELIEF

- 36. WHEREFORE, Polaris PowerLED requests the following relief from this Court:
- (A) A judgment that defendant is liable for direct infringement of one or more claims of the '087 and '117 Patents;
- (B) Compensatory damages in an amount according to proof, and in any event no less than a reasonable royalty, including all pre-judgment and post-judgment interest at the maximum rate allowed by law;
 - (C) Pre-judgment interest;
 - (D) Post-judgment interest;
- (E) An order and judgment permanently enjoining VIZIO and its officers, directors, agents, servants, employees, affiliates, attorneys, and all others acting in privity or in concert with them, and their parents, subsidiaries, divisions, successors and assigns from further acts of infringement of the patents-in-suit; and
- (F) A judgment granting Polaris PowerLED such further relief as the Court may deem just and proper.

JURY TRIAL DEMAND Polaris PowerLED hereby demands trial by jury on all issues so triable 37. pursuant to Fed. R. Civ. P. 38. DATED: September 4, 2019 FEINBERG DAY KRAMER ALBERTI LIM TONKOVICH & BELLOLI LLP By: /s/ Robert F. Kramer Robert F. Kramer Attorneys for Plaintiff POLARIS POWERLED TECHNOLOGIES, LLC