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13 Attorneys for Plaintiff,
14 GoPro, Inc.

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IN THE UNITED STATES DISTRICT COURT
FOR THE CENTRAL DISTRICT OF CALIFORNIA

15 GOPRO, INC., a Delaware
16 corporation,)
17)
18 Plaintiff,)
19 v.)
20 ARASHI VISION INC., d/b/a)
21 INSTA360, a Chinese corporation,)
22 and ARASHI VISION (U.S.) LLC,)
23 d/b/a INSTA360, a Delaware limited)
24 liability company,)
25)
26)
27)
28)

Defendants.

CASE NO. 8:24-cv-00681

**COMPLAINT FOR PATENT
INFRINGEMENT**

JURY TRIAL DEMANDED

1 Plaintiff GoPro, Inc. (“GoPro” or “Plaintiff”) asserts the following claims for
 2 patent infringement against Defendants Arashi Vision Inc., d/b/a Insta360, a Chinese
 3 corporation (“Insta360”), and Arashi Vision (U.S.) LLC, d/b/a Insta360, a Delaware
 4 entity (“Insta360-U.S.”) (collectively, “Defendants”), and alleges as follows:

5 **SUMMARY**

6 1. GoPro, a California company, is a pioneer in developing cameras and
 7 digital imaging techniques. For over 20 years, GoPro has invested substantial time,
 8 effort, and money into researching and developing new and unique technology.

9 2. As a company built on innovation, GoPro has received numerous patents
 10 protecting its technological improvements. These patents claim novel techniques for
 11 capturing, editing, and processing images and videos, many of which have become
 12 foundational to the consumer experience.

13 3. Defendant Insta360, a Chinese manufacturer, is a relatively new entrant
 14 to the camera market. With its subsidiary, Insta360-US, Insta360 is now importing
 15 and selling competing cameras to the U.S. market that use and copy GoPro’s most
 16 fundamental technological inventions.

17 4. Even more troubling, Insta360 has recently released a new line of
 18 cameras, dubbed the “Ace” and “Ace Pro.” These new camera systems not only
 19 continue to infringe GoPro’s technological inventions, but they now also blatantly
 20 appropriate GoPro’s signature, ornamental design:



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1 5. It has become clear that Insta360’s increasingly brazen actions, both
2 from a technological and now design standpoint, are calculated to profit at GoPro’s
3 expense and leverage GoPro’s goodwill with consumers.

4 6. GoPro welcomes fair competition. Competition encourages innovation
5 and fosters a vibrant market for consumers. Those principles, however, are not served
6 by copyists who seek to profit off the hard work, investment, and innovation of others.
7 GoPro should not be forced to compete against its own technology and designs, and
8 therefore has no choice but to bring this action to stop Insta360’s continuing and
9 expanding infringement.

10 **NATURE OF THE ACTION**

11 7. This is a civil action for patent infringement under the patent laws of the
12 United States, 35 U.S.C. § 1 *et seq.*

13 8. GoPro is the owner of all right, title, and interest in United States Patent
14 Nos. 10,015,413 (the “’413 Patent”); 10,529,052 (the “’052 Patent”); 10,574,894 (the
15 “’894 Patent”); 10,958,840 (the “’840 Patent”); and 11,336,832 (the “’832 Patent”);
16 and United States Design Patent No. D789,435 (the “D’435 Patent) (together, the
17 “GoPro Patents” or the “Patents-in-Suit”).

18 9. GoPro is the legal owner by assignment of the Patents-in-Suit, which
19 were duly and legally issued by the United States Patent and Trademark Office
20 (“USPTO”).

21 10. Defendants have knowingly infringed and continue to infringe one or
22 more claims of GoPro’s Patents. Defendants have also induced and contributed to
23 direct infringement of the utility patents by others, including their customers, and
24 continue to do so.

25 11. Defendants infringe at least by making, using, importing, selling, and/or
26 offering for sale the Insta360 “One X,” “One R,” “One R 1-inch,” “One X2,” “One
27 RS,” “One RS 1-inch 360,” “One X3,” “Go 3,” “Ace,” and “Ace Pro” camera systems
28 (“Accused Camera Systems”), as well as the Insta360 mobile applications for iOS and

1 Android, and the Insta360 Studio desktop editing software for Windows and Mac OS
2 (“Accused Editing Applications”) (together, “Accused Systems”).

3 12. Defendants’ infringement is widespread, throughout the United States,
4 the State of California, and this District. GoPro seeks injunctive relief and monetary
5 damages.

6 **THE PARTIES**

7 13. Plaintiff GoPro is a Delaware corporation with its principal place of
8 business at 3025 Clearview Way, San Mateo, California 94402. GoPro is the owner
9 of the Patents-in-Suit.

10 14. On information and belief, Defendant Insta360 is a Chinese corporation
11 with a principal place of business located at 12F, Building T2, Hengyu Qianhai
12 Financial Center, Nanshan District, Shenzhen, P.R. China. On information and belief,
13 Insta360 imports and/or markets, offers, distributes, sells, and/or offers for sale the
14 Accused Systems throughout the United States, the State of California, and this
15 District.

16 15. On information and belief, and according to filings with the California
17 Secretary of State, Defendant Insta360-U.S. is a Delaware limited liability company
18 and wholly owned subsidiary of Insta360 with a principal place of business located at
19 2323 Main St., Unit 16, Irvine, CA 92614. On information and belief, Insta360-U.S.
20 imports and/or markets, offers, distributes, sells, and/or offers for sale the Accused
21 Systems throughout the United States, the State of California, and this District.

22 16. Upon information and belief and as further explained below, Defendants
23 have been and are acting in concert, and are otherwise liable jointly and severally for
24 transactions or occurrences related to the importing, making, using, selling, offering
25 for sale or otherwise distributing the Accused Systems in the United States.

26 17. This action involves questions of law and fact that are common to all
27 Defendants.

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1 **JURISDICTION AND VENUE**

2 18. This is a civil action for patent infringement arising under the patent laws
3 of the United States, 35 U.S.C. § 1 *et seq.*

4 19. This Court has subject matter jurisdiction over the matters asserted
5 herein under 28 U.S.C. §§ 1331 and 1338(a) and 35 U.S.C. §§ 271 *et seq.*

6 **A. Personal Jurisdiction Over Insta360**

7 20. This Court has personal jurisdiction over Insta360 because, on
8 information and belief, Insta360 imports infringing products into the United States
9 and the State of California, does continuous and systematic business in the State of
10 California, provides infringing products to the residents of the State of California that
11 Insta360 knew would be used within the State and California, and solicits business
12 from the residents of the State of California.

13 21. For example, on information and belief, Insta360 conducts business
14 through the offices of its U.S. subsidiary,¹ Insta360-U.S., which has its principal place
15 of business at 2323 Main St., Unit 16, Irvine, CA 92614. Through Insta360-U.S. and
16 working in concert with Insta360-U.S., Insta360 employs engineers, office managers,
17 marketing teams, and/or other personnel, including personnel at Insta360-U.S.
18 facilities in this District.²

19 22. On further information and belief, Insta360 not only “owns,” but also
20 “operates” Insta360-U.S., as one of Insta360-U.S.’s two members is Jingkang Liu, a
21 founder and Vice President of Insta360.³

22 23. Insta360 also directly and through agents regularly does, solicits, and
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24 ¹ For example, Insta360’s website directs those seeking to contact it to the address
25 and phone number of Insta360-U.S. *See* <https://www.insta360.com/contact>.

26 ² www.Linkedin.com identifies at least 15 people in this District that are employed
27 by Insta360 and/or Insta360-U.S.

28 ³ *See* Statement of Information – Limited Liability Company, Arashi Vision
(U.S.) LLC, March 10, 2023.

1 transacts business in this District and elsewhere in the State of California.

2 24. In particular, Insta360 maintains a website advertising and promoting its
3 products, including the Accused Systems, which is directed to customers in this
4 District, the State of California, and throughout the United States.⁴

5 25. Insta360 distributes its products, including the Accused Systems, for sale
6 in retail stores such as BestBuy, located throughout this District, the State of
7 California, and throughout the United States.⁵

8 26. Insta360, on information and belief, also markets, offers, and distributes
9 its Accused Editing Applications to users of computing and mobile devices in this
10 District and throughout the State of California through its website, at
11 <https://www.insta360.com/download>.

12 27. Insta360 has committed and continues to commit acts of infringement in
13 violation of 35 U.S.C. § 271, and has made, used, marketed, distributed, offered for
14 sale, sold, and/or imported infringing products in the State of California, including in
15 this District, and engaged in infringing conduct within and directed at or from this
16 District.⁶

17 28. Insta360 has purposefully and voluntarily placed the Accused Systems
18 into the stream of commerce with the expectation that its infringing product will be
19 used in the State of California and this District. The Accused Systems have been and
20 continue to be distributed to and used in the State of California and this District.

21 29. Insta360's acts cause injury to GoPro, including within this District,
22 including by diverting sales from GoPro.

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26 ⁴ <https://www.insta360.com/>

27 ⁵ See <https://www.insta360.com/support/buy-map>.

28 ⁶ For example, Insta360 products are available at numerous retail stores, such as BestBuy, throughout this District. See <https://www.insta360.com/support/buy-map>.

1 **B. Personal Jurisdiction Over Insta360-U.S.**

2 30. This Court also has personal jurisdiction over Defendant Insta360-U.S.
3 because Insta360-U.S. does continuous and systematic business in the State of
4 California, including this District, by maintaining its principal place of business in
5 this District, providing infringing products and services to the residents of the State
6 of California and this District that Insta360-U.S., and by soliciting business from the
7 residents of the State of California and this District.

8 31. Insta360-U.S.'s principal place of business is located in this District at
9 2323 Main St., Unit 16, Irvine, CA 92614. On information and belief, Insta360-U.S.
10 employs individuals within this District, and directly and through agents regularly
11 does, solicits and transacts business in the District and elsewhere in the State of
12 California.

13 32. Insta360-U.S. distributes its products, including the Accused Systems,
14 for sale in retail stores such as BestBuy, located throughout this District, the State of
15 California, and throughout the United States.⁷

16 33. Insta360-U.S. also markets, offers, and distributes its Accused Editing
17 Applications to users of computing and mobile devices in this District and throughout
18 the State of California through its website, at <https://www.insta360.com/download>.

19 34. Insta360-U.S. has committed and continues to commit acts of
20 infringement in violation of 35 U.S.C. § 271, and has made, used, marketed,
21 distributed, offered for sale, sold, and/or imported infringing products in the State of
22 California, including in this District, and engaged in infringing conduct within and
23 directed at or from this District.

24 35. Insta360-U.S. has purposefully and voluntarily placed the Accused
25 Systems into the stream of commerce with the expectation that its infringing product
26 will be used in the State of California and this District. The Accused Systems have
27

28 ⁷ See <https://www.insta360.com/support/buy-map>.

1 been and continue to be distributed to and used in the State of California and this
2 District.

3 36. Insta360-U.S.'s acts cause injury to GoPro, including within this District,
4 including by diverting sales from GoPro.

5 **C. Venue**

6 37. Venue is proper in this District under the provisions of 28 U.S.C.
7 §§ 1391 and 1400(b) at least because Defendants have committed acts of infringement
8 in this District and have a regular and established place of business in this District.

9 38. On information and belief, venue is also proper in this District against
10 Insta360 under the provisions of 28 U.S.C. § 1391(c)(3).

11 **FACTS COMMON TO ALL CLAIMS**

12 **GoPro's Innovation, Patented Technologies, and Industry Recognition**

13 39. GoPro helps the world capture and share itself in immersive and exciting
14 ways. The California company was founded in 2002 by Nick Woodman, an
15 entrepreneur in search of a better way to film himself and his friends surfing. The
16 company quickly expanded into creating solutions for other activity and capture
17 segments including motorsports, snow sports, water sports, airborne sports, cycling,
18 vlogging, travel, and more.

19 40. Over the years, GoPro has grown into a world-renowned brand praised
20 for its versatile and empowering products. Owing to its significant investment in
21 developing and perfecting cutting-edge image capture and processing technology,
22 GoPro has commercialized an entire line of cameras that have fundamentally
23 transformed the way people capture, manage, share, and enjoy meaningful life
24 experiences.

25 41. What began as an idea to help athletes capture themselves engaging in
26 their sport has become a widely adopted solution for consumers to document and
27 share compelling, immersive photo and video of themselves participating in their
28 favorite activities. From extreme to mainstream, professional to consumer, GoPro's

1 patented technology has given the world the ability to capture and share its passions
2 in immersive and exciting ways.

3 42. Today, GoPro sells its cameras and related accessories in over 80
4 countries and continues to advance camera technology, such as by enhancing picture
5 and video quality and user experience.

6 43. The Patents-in-Suit protect GoPro's novel technology, which took an
7 immense amount of time and hundreds of millions of dollars to develop. In particular,
8 the Patents-in-Suit protect GoPro's renowned SuperView, virtual lens, HyperSmooth,
9 and Horizon Leveling technology used in its HERO and MAX line of products. One
10 of the Patents-in-Suit also protects GoPro's signature, ornamental camera design.

11 44. As discussed more fully below, GoPro's protected technology gives
12 anyone the ability to capture high-quality, professional-grade photo and video while
13 performing virtually any activity, something that cannot be done with a traditional
14 camera.

15 45. Indeed, GoPro has earned two Emmy® Awards for innovations in design
16 and technology that have had a material impact on the television industry. In relation
17 to its HyperSmooth technology, GoPro was recognized in 2022 for innovation in the
18 category of "In-Camera Sensor and Software Stabilization," recognizing the
19 technologies powering HyperSmooth. In 2013, GoPro was recognized with its first
20 Emmy® for being the pioneer in "Inexpensive Small Rugged HD Camcorders."

21 46. Rather than spend the time and money to develop their own technology,
22 the Defendants chose instead to copy GoPro's.

23 47. The Accused Systems imported, marketed, sold, and offered for sale by
24 the Defendants infringe the claimed inventions covered by one or more claims of each
25 of the Patents-in-Suit. Moreover, Defendants' recently released "Ace" and "Ace Pro"
26 products that infringe GoPro's patented, ornamental design.

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GoPro's Patents

A. The '413 Patent

48. U.S. Patent No. 10,015,413 (“’413 Patent”) is entitled “Conversion Between Aspect ratios in Camera,” and was issued on July 3, 2018. A true and correct copy of the ’413 Patent is attached as Exhibit A.

49. The ’413 Patent was filed on April 20, 2017 as U.S. Patent Application No. 15/492,738 and is a continuation of U.S. Patent Application No. 15/044,253, issued as U.S. Patent No. 9,674,429, which is a continuation of U.S. Patent Application No. 14/536,315, issued as U.S. Patent No. 9,294,671, which is a continuation of U.S. Patent Application No. 14/180,887, issued as U.S. Patent No. 8,917,329, which claims the benefit of U.S. Provisional Patent Appl. No. 61/869,029, filed August 22, 2013.

50. The ’413 Patent is directed to GoPro’s “SuperView” technology. Using GoPro’s SuperView technology, users are able to capture an immersive, wide-angle perspective through dynamic and non-uniform stretching of the video frame aspect ratio (*i.e.*, the proportional relationship between the width and height of a video frame).

51. Prior to the ’413 Patent, “[c]onverting between aspect ratios [was] a common problem in the field of image and video processing.” ’413 Patent at 1:6-7. “Conventional conversion techniques such as cropping, linearly scaling, and padding each result[ed] in a perceivable reduction in the quality of an image or video.” *Id.* at 1:11-13. For example, cropping would “remove[] content from the image and reduce[] the field of view of the image.” *Id.* at 1:14-15. “Linear scaling,” on the other hand could “maintain[] the full field of view” but would “introduce[] perceivable distortion into the image.” *Id.* at 1:16-18.

52. Given these challenges with aspect ratio conversion, a user of a camera was generally limited to capturing images with an output field of view having the same aspect ratio of the intended display. This constraint resulted in an undesirable

1 reduction in the field of view, particularly when a user would seek to shoot images
2 and videos from certain perspectives.

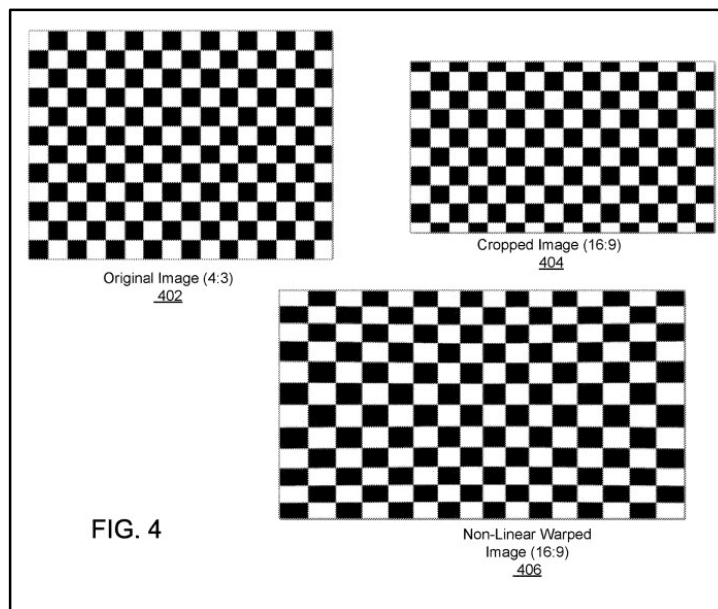
3 53. The '413 Patent addresses this issue by providing novel image
4 processing techniques allowing a device to capture images in one aspect ratio and then
5 non-uniformly stretch and/or compress those images into a second aspect ratio,
6 resulting in a more immersive shot containing more content in the output aspect ratio
7 than could have been captured directly. Moreover, the invention accomplishes this
8 goal while minimizing perceptible distortion effects.

9 54. As the '413 Patent describes, it is desirable for an image capture device
10 to “make[] full use of the available field of view of the image sensor 104” '413
11 Patent at 3:32-35. Thus, per the invention, when the image sensor captures a field of
12 view with an aspect ratio different from the display aspect ratio, the image capture
13 device “uses resolution compression and/or stretching in the appropriate axes to
14 convert the captured image in the source aspect ratio to the target aspect ratio.” *Id.* at
15 3:39-42.

16 55. Using a “non-linear function across the image,” the invention is capable
17 of “minimizing or reduc[ing] undesirable key feature aspect ratio distortions.” *Id.* at
18 3:43-45. Preferably, the non-linear function minimizes these undesirable aspect ratio
19 distortions without “any loss of field of view.” *Id.* at 3:46.

20 56. For example, Figure 4 illustrates an embodiment of the invention. As
21 the Patent explains, an original image of a checkerboard pattern may be captured
22 using a 4:3 aspect ratio, as shown in image 402. '413 Patent at 5:20-25. If the original
23 4:3 image is cropped into a 16:9 aspect ratio according to prior art techniques, as
24 shown in image 404, vertical content is lost, which is undesirable. The '413 Patent,
25 by contrast, teaches how the entire vertical content of the original image can be fit
26 into the output 16:9 format, as shown in image 406, all while minimizing distortion
27 near the center of the image. *Id.* at 5:25-27.

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11 57. When applied in the camera setting, the invention of the '413 Patent
12 provides a unique and immersive perspective, yielding more content within the output
13 frame than the camera could have captured directly with the desired aspect ratio.
14 GoPro advertises this as its “SuperView” feature, which has been widely lauded in
15 the industry for over a decade.

16 58. While there are countless scenarios where SuperView mode provides
17 excellent results, it is particularly useful for activities where the camera is facing
18 towards or away from the user and mounted on the user’s head, chest, or bike, such
19 as in the cases of skiing, biking, motocross, or other active use cases.

20 59. To summarize, the invention of the '413 Patent is directed to a specific,
21 technical problem that arises when capturing and displaying images and videos.
22 Specifically, given the known challenges in converting between aspect ratios, a
23 camera was generally limited to capturing content within the field of view of the
24 desired output aspect ratio, which could limit the camera from making full use of the
25 image sensor. The '413 Patent addresses this technical shortcoming of existing
26 cameras by providing a technique for non-uniformly stretching and/or compressing
27 an image along the vertical and horizontal axes to maximize the field of view without
28 introducing perceptible distortion effects.

1 60. The invention of the '413 Patent is a specific, technical solution rooted
2 within the domain of digital image capture devices, and improves the technical
3 functioning of such devices by allowing them to maximize the image capturing
4 capability of their image sensors, notwithstanding the need to output the image in a
5 different aspect ratio.

6 61. The key inventive concepts of the '413 Patent are captured in the
7 limitations of the independent claims. These limitations are not routine, conventional,
8 or well-known. Claim 1, for example, is directed to an “image capture system” that
9 captures input images in a “source aspect ratio,” and applies a transformation to “non-
10 uniformly shift[] the pixels from the input positions to [] output positions based on
11 (1) the input positions along the first axis, and (2) the input positions along the second
12 axis.” '413 Patent, Claim 1. Additionally, the non-uniform shifting is accomplished
13 in a manner “such that differences between the input positions and the output positions
14 of [a] subset of the pixels [] are less than differences between the input positions and
15 the output positions of others of the pixels.” *Id.* These claim limitations, in isolation
16 and as an ordered combination within the claim, provide a novel solution to the
17 technical problem described by the '413 Patent.

18 **B. The '052 Patent**

19 62. U.S. Patent No. 10,529,052 (“'052 Patent”) is entitled “Virtual Lens
20 Simulation for Video and Photo Cropping,” and was issued on January 7, 2020. A
21 true and correct copy of the '052 Patent is attached as Exhibit **B**.

22 63. The '052 Patent was filed on August 8, 2019 as U.S. Patent Application
23 No. 16/535,940 and is a continuation of U.S. Patent Application No. 16/229,512,
24 issued as U.S. Patent No. 10,395,338, which is a continuation of U.S. Patent
25 Application No. 15/157,207, issued as U.S. Patent No. 10,186,012, which claims the
26 benefit of U.S. Provisional Patent Application No. 62/164,409, filed May 20, 2015.

27 64. The '052 Patent is directed to GoPro’s “virtual lens” technology. As the
28 Patent states, the invention is directed to a system for simulating “a virtual lens ...

1 when applying a crop or zoom effect to an input video.” ’052 Patent, Abstract. This
2 technology may be implemented, for example, in post-production editing
3 applications. This technology may also be implemented as one part of an overall
4 method for “in camera” image processing and stabilization.

5 65. GoPro’s virtual lens technology allows for edited, cropped, zoomed-in,
6 and panned images and video to be properly recentered to maximize their quality and
7 viewing experience. As the ’052 Patent explains, “[i]t is often desirable to perform
8 crop or zoom operations on high resolution images or video frames to extract a
9 reduced field of view sub-frame,” particularly for “wide angle or spherical images or
10 video,” because much of the field of view captured “may be of little interest to a given
11 viewer” or contain subjects that “appear very small.” ’052 Patent at 1:14-20. Editing
12 operations such as cropping and zooming thus allow an editor to create “an image or
13 video with the subject more suitably framed.” *Id.* at 1:20-22.

14 66. However, the ’052 Patent also explains that reframing through such
15 operations is greatly dependent on the lens characteristics of the camera that captured
16 the images or video, because “different lens[es] may produce different lens distortion
17 effects in different portions of the image or video frame due to different lens
18 characteristics.” ’052 Patent at 7:26-29. Wide angle lenses, in particular, “may
19 introduce the perception of distortion” into captured images and video “due to the fact
20 that the cameras are projecting content from a spherical world onto a rectangular
21 display.” *Id.* at 1:22-27.

22 67. Also, because distortion “tends to increase near the edges and corners of
23 the captured frames,” “a sub-frame near an edge or a corner of a wide angle image
24 capture” may “hav[e] significantly different distortion than a sub-frame extracted
25 from the center of the image.” ’052 Patent at 1:24-30; 2:61-3:8. This effect is
26 particularly undesirable for videos, where editing may involve “combining cropped
27 sub-frames corresponding to different regions of a video (e.g., to track movement of
28 a subject of interest), or combining cropped sub-frames with uncropped frames (e.g.,

1 to produce zoom in effect).” *Id.* at 1:32-37.

2 68. The ’052 Patent provides a technical solution to these challenges,
3 allowing users to efficiently obtain edited video or images that simulate the same
4 effect that would have been achieved if the user had physically re-oriented the camera
5 to produce the panning, re-pointing, cropping, or zooming effects, without a
6 perceivable loss in image fidelity.

7 69. Specifically, the ’052 Patent is directed to a novel “virtual lens model”
8 that, when applied to repointed, cropped, or zoomed in portions of input images or
9 video, “produce[s] consistent lens characteristics across each output image.” ’052
10 Patent at 3:22-24.

11 70. To achieve this result, the ’052 Patent discloses a method of processing
12 a selected sub-frame “to remap the input lens distortion centered on the first field of
13 view of the original input image or video frame to a desired lens distortion effect
14 centered on a second field of view of the sub-frame,” with the desired lens distortion
15 exhibiting the same lens characteristics exhibited by the input lens distortion in the
16 original images. ’052 Patent at 11:51-55.

17 71. Importantly, during this remapping, the ’052 Patent teaches a technique
18 for transforming the input lens distortion present in selected sub-frames to the desired
19 lens distortion based on a function of the original input lens distortion in the input
20 images or video, the location of the sub-frame within the input images or video, and
21 the size of the sub-frame. ’052 Patent at 5:52-61; 11:1-10; 12:25-30; Claims 1, 11.
22 The ’052 Patent explains that this method can be utilized with either sub-frames
23 “selected manually by a video editor in post-processing[] or ... automatically ... based
24 on various metadata” or other inputs. *Id.* at 2:52-56; 5:26-6:3.

25 72. The ’052 Patent technique also produces consistent lens characteristics
26 across each edited image or video in an efficient manner that minimizes losses. For
27 example, “the remapping [may] be achieved by applying a direct transformation
28 function that describes a relationship between the input lens distortion of the input

1 sub-frame (which may be centered on the original input image or video frame) and
2 the desired lens distortion of the output sub-frame (which may be centered on the sub-
3 frame).” ’052 Patent at 60:65. As a result of this direct mapping, the invention of the
4 ’052 Patent “may enable the transformation to be achieved with higher quality and
5 less loss than a comparable two-step process of separately removing the input
6 distortion and then introducing the desired lens distortion.” *Id.* at 12:6-10.

7 73. Accordingly, the invention of the ’052 Patent is directed to a specific,
8 technical problem that arises when using digital technology to select sub-frames
9 within a captured image or video. The patent teaches a pixel remapping and direct
10 transformation technique that provides consistent lens characteristics across frames,
11 even when cropped. This is a specific solution to dealing with the technical challenge
12 of distortion that is introduced through conventional crop, recenter, and zoom
13 operations.

14 74. The technical solution afforded by the ’052 Patent is rooted in the
15 technical challenge of digital image capture devices and editing systems. The
16 invention improves the functionality of these digital image processing systems by
17 enabling crop, recenter, and zoom operations while maintaining consistent lens
18 characteristics and without resulting in a loss of image resolution or quality.

19 75. The independent claims of the ’052 Patent capture the key inventive
20 concepts of the invention, and they are not routine, convention, or well-known. Claim
21 1, for example, is directed to a system for “generating output images based on a
22 desired lens distortion, and the different lens distortion effects in the sub-frames, the
23 desired lens distortion and the input lens distortion exhibiting consistent lens
24 characteristics” This limitation, both itself and within the claim as an ordered
25 combination, captures the inventive concept of providing consistent lens
26 characteristics across a series of edited images through the use of direct
27 transformations in order to reduce losses and increase fidelity of the final output
28 images.

1 **C. The '894 and '840 Patents**

2 76. U.S. Patent No. 10,574,894 (“’894 Patent”) is entitled “Systems and
3 Methods for Stabilizing Videos,” and was issued on February 25, 2020. A true and
4 correct copy of the ’894 Patent is attached as Exhibit C.

5 77. The ’894 Patent was filed on August 22, 2019 as U.S. Patent Application
6 No. 16/548,453 and is a continuation of U.S. Patent Application No. 16/418,203,
7 issued as U.S. Patent No. 10,587,808, which is a continuation of U.S. Patent
8 Application No. 16/150,066, issued as U.S. Patent No. 10,341,564, which is a
9 continuation of U.S. Patent Application No. 15/987,786, issued as U.S. Patent No.
10 10,587,807, which claims the benefit of U.S. Provisional Patent Application No.
11 62/673,388, filed May 18, 2018.

12 78. U.S. Patent No. 10,958,840 (“’840 Patent”) is entitled “Systems and
13 Methods for Stabilizing Videos,” and was issued on March 23, 2021. A true and
14 correct copy of the ’840 Patent is attached as Exhibit D.

15 79. The ’840 Patent was filed on December 13, 2019 as U.S. Patent
16 Application No. 16/713,798 and is a continuation of U.S. Patent Application No.
17 16/587,811 filed September 30, 2019, issued as U.S. Patent No. 11,172,130, which is
18 a continuation of U.S. Patent Application No. 16/548,549 filed August 22, 2019,
19 issued as U.S. Patent No. 10,536,643, which is a continuation of U.S. Patent
20 Application No. 16/392,501 filed April 23, 2019, issued as U.S. Patent No.
21 10,432,864, which claims the benefit of U.S. Provisional Patent Application No.
22 62/733,237, filed September 19, 2018.

23 80. GoPro owns by assignment all rights, title, and interest in and to the ’840
24 Patent, with the full and exclusive right to bring suit to enforce the ’840 Patent,
25 including the right to recover for past infringement.

26 81. The ’840 Patent is valid and enforceable under United States Patent
27 Laws.

28 82. The ’894 and ’840 Patents are directed to separate aspects of GoPro’s

1 award-winning “HyperSmooth” video stabilization technology. GoPro’s
2 HyperSmooth technology provides advanced electronic image stabilization to capture
3 smooth and stable video footage even in challenging and shaky conditions.

4 83. Camera users often seek to capture themselves performing activities such
5 as surfing, mountain biking, or hiking over uneven terrain. These activities (and
6 others) inevitably result in shaky or unstable images or video, as users cannot
7 perfectly hold the camera steady throughout the duration of a capture event. As
8 explained by both patents, “[t]he motion of the image capture device during the
9 capture of the video may cause the video to appear jerky/shaky.” ’894 Patent at 1:11-
10 14; ’840 Patent at 1:11-14.

11 84. Prior art systems for stabilizing images and videos, such as mechanical
12 gimbals and stabilizers, introduced additional components, increased complexity, and
13 generally were not effective in stabilizing videos over the range of activities
14 experienced by camera users.

15 85. GoPro’s HyperSmooth technology addresses this problem by using
16 internal circuitry to identify and track the motion of the camera, and then applying
17 novel technology and image processing techniques to digitally compensate for this
18 camera movement.

19 86. For example, the patents describe the use of an integral “position sensor”
20 that is used to determine an “observed trajectory” (’894 Patent) or simply a
21 “trajectory” (’840 Patent) of the image capture device during the capture duration.
22 ’894 Patent at 3:49-54; ’840 Patent at 4:61-66. As the patents recognize, simply
23 generating a video based on images captured along the observed trajectory is
24 undesirable because it may result in “footage that is shaky and/or that appears to
25 include unintended camera motion.” *E.g.*, ’894 Patent at 7:56-60. Thus, the patents
26 instead teach generating a stabilized trajectory (*i.e.*, the “capture” or “smoothed”
27 trajectory) of the video based on “punch-out” views (*i.e.*, smaller visual content
28 portions) of each successive image. ’894 Patent at 8:2-6; ’840 Patent 8:56-60.

1 87. The HyperSmooth patents further teach a unique combination of
2 techniques to result in stabilized videos. For example, the patents describe a “look
3 ahead” technique, whereby the stabilized trajectory, at any given moment in time, is
4 determined based at least in part upon the observed trajectory of the image capture
5 device (as determined by the position sensor) at some *subsequent* point of time in the
6 capture duration. '894 Patent at 9:37-52; '840 Patent at 8:41-55. This use of a “look-
7 ahead” allows the system to better “preserve[] a user’s intended motion for the image
8 capture device.” '894 Patent at 9:52-56.

9 88. The HyperSmooth patents further teach the specific criteria that may be
10 used by the system in order to generate appropriate punch-outs and generate the
11 stabilized videos. For example, the '894 Patent teaches an approach “based on
12 minimization of a rotational velocity of the image capture device/housing [] and a
13 rotational acceleration of the image capture device/housing [] while respecting a set
14 of constraints.” '894 Patent at 10:61-66.

15 89. The '840 Patent likewise teaches a number of parameters, '840 Patent at
16 21:17-25, including a “weight-balance parameter,” *id.* at 21:26-58, a “low-light high-
17 pass parameter,” *id.* at 21:59-22:21, and a “stickiness parameter,” *id.* at 22:22-41.
18 Further, the '840 Patent teaches the use of a configurable “temporal horizon” to
19 balance the tradeoff between enabling the system to better “identify intentional
20 motion” and avoiding “longer delays” in calculating the stabilized trajectory. *Id.* at
21 9:17-28.

22 90. The technical solution claimed by the '894 and '840 Patents provides a
23 smooth, easy-to-watch video, even in situations where the footage would have been
24 unusable in previous cameras. GoPro’s HyperSmooth inventions are particularly
25 useful in situations where the camera is subject to vibrations, bumps, or rapid
26 movements, such as during action sports or other adventurous activities.

27 91. The inventions disclosed and claimed in both the '894 Patent and the
28 '840 Patent are directed to concrete, technical solutions to help address the problem

1 of shaky or unstable video that often arises with image capture devices. The
2 inventions are directed to a set of specific technical solutions, including the use of a
3 “punch-out” to generate a stabilized trajectory, the use of a “look-ahead” to determine
4 an appropriate punch-out at any given moment in time, and a set of well-specified
5 criteria and parameters for determining an appropriate stabilized trajectory over the
6 course of a capture duration. These solutions are specific to the domain of image
7 capture devices, and they improve the functioning of the image capture device itself
8 by yielding smoother, more stabilized videos even in shaky conditions.

9 92. The solutions provided by the HyperSmooth patents are reflected in
10 specific limitations of the independent claims of the ’894 Patent (“generate the video
11 content based on a punch-out of visual content,” “determine a capture trajectory of
12 the housing based on a look ahead of the observed trajectory,” “wherein the capture
13 trajectory is determined to include a path that minimizes a combination of rotational
14 velocity and rotational acceleration of the housing”), as well as specific limitations of
15 the independent claims of the ’840 Patent (“the stabilized visual content including the
16 punchout of the one or more extents of the visual content within the viewing window,”
17 “determine a smoothed trajectory of the housing based on a look-ahead of the
18 trajectory,” use of “one or more of a weight-balance parameter, a low-light high-pass
19 parameter, and/or a stickiness parameter,” “wherein the determination of the
20 smoothed trajectory includes use of a temporal horizon of motion experienced by the
21 image capture device”). These limitations are not routine, conventional, or well-
22 known, either in isolation or existing within an ordered combination of the claims.
23 These limitations focus the claims on the specific, inventive aspects of the
24 HyperSmooth technology.

25 **D. The ’832 Patent**

26 93. U.S. Patent No. 11,336,832 (“’832 Patent”) is entitled “Systems and
27 Methods for Horizon Leveling Videos” and was issued on May 17, 2020. A true and
28 correct copy of the ’832 Patent is attached as Exhibit E.

1 94. The '832 Patent was filed on August 28, 2020 as U.S. Patent Application
2 No. 17/006,536, which claims the benefit of U.S. Provisional Patent Application No.
3 62/894,649, filed August 30, 2019.

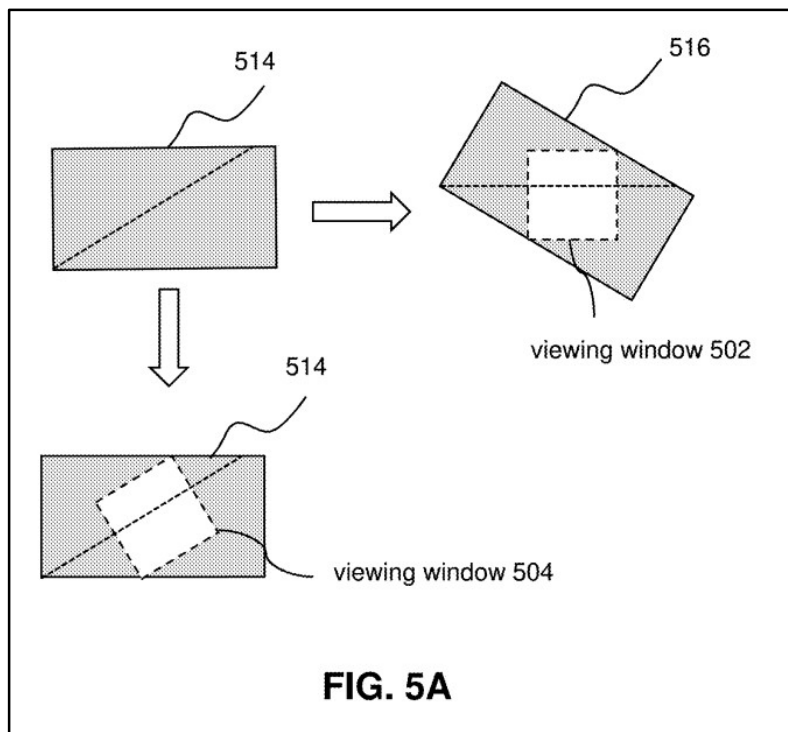
4 95. The '832 Patent is directed to GoPro's "Horizon Leveling" technology.
5 GoPro's Horizon Leveling technology provides a technique to capture a smooth,
6 horizon-leveled video regardless of whether users are sideways, flipping through the
7 air, or chasing after a target.

8 96. As described in the previous section, users of conventional cameras
9 faced the problem of shaky and/or unstable video, especially when shooting during
10 action sports. In addressing this issue, GoPro recognized that certain unintended
11 rotational motions were particularly problematic because they provided the
12 appearance of an off-axis horizon. Specifically, as the '832 Patent states, "[t]he
13 motion of the image capture device during the capture of the video may cause the
14 video to depict a tilted view of a scene." '832 Patent at 1:12:14.

15 97. GoPro's Horizon Leveling technology is addressed to this problem,
16 providing a novel and targeted technique for leveling user videos only on the
17 horizontal axis (i.e., orthogonal to the gravity vector), meaning that the image horizon
18 remains level while any movement from panning up or down still remains visible in
19 the shots.

20 98. For example, the '832 Patent teaches that when an image capture device
21 is rotated to the right with respect to the ground, upright objects within the scene are
22 depicted as being tilted to the left (as shown in item 514 below). *See* '832 Patent at
23 10:1-4.

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13 99. In order to detect this tilt, the patent teaches the use of a “position sensor”
14 within the image capture device to determine the “rotational positions of the image
15 capture device as the function of progress through the capture duration” *See id.*
16 at 10:54-61. Readings from the position sensor are used to estimate “the offset of the
17 visual content from the horizon due to rotation of the image capture device.” *Id.* at
18 10:58-62.

19 100. Based on the readings from the position sensor, the patent teaches that
20 the “visual content of the image 514 may be rotated to the right” by an amount
21 necessary to compensate for the tilt and “generate a leveled image 516.” *Id.* at 10:14-
22 15. Then, “[a] viewing window 502 may be positioned in an upright manner within
23 the visual content of the leveled image 516 to provide an upright punchout (leveled
24 view) of the scene.” *Id.* at 10:19-21. The punchout results in a horizon-leveled
25 depiction of the scene.

26 101. The patent includes a number of further inventive concepts as well. For
27 example, the patent teaches that how “[t]he size of the viewing window (punchout)
28 may be determined (e.g., dynamically changed) based on the rotational positions of

1 the image capture device.” ’832 Patent at 10:52-54. Additionally, the patent teaches
2 implementations that may involve the application of distortion to otherwise non-
3 distorted visual content in order to “reduce[] the impact of an off-axis horizon
4 depicted within the visual content” *Id.* at 22:33-48. Finally, the patent also
5 teaches the use of a viewing window with a “one-by-one aspect” ratio which can
6 reduce the impact of an off-axis horizon, *id.* at 23:6-8, and also “enable horizon
7 leveling when the image capture device is rotated by 90 degrees without adversely
8 impacting the overall image composition,” *id.* at 23:29-32.

9 102. GoPro’s Horizon Leveling technology works in tandem with GoPro’s
10 HyperSmooth technology, described above, to provide a further degree of image
11 stabilization, particularly where the camera is subject to bumps and rapid movements,
12 such as during action sports and adventurous activities.

13 103. GoPro’s Horizon Leveling technology can also provide a unique and
14 improved first-person perspective of movement through a scene relative to the leveled
15 horizon, for example when a user performs a 360-degree rotation in an aircraft or on
16 a roller coaster.

17 104. The invention of the ’832 Patent is directed to a specific, technical
18 problem that arises when using a physical camera to capture scenes in shaky or
19 unstable environments. Specifically, the invention is directed to a technique to using
20 position sensors within the camera to detect camera rotations and then compensate for
21 such rotations by generating a “punch-out” of the capture visual content that results
22 in a horizon leveled image. The invention is directed to a tangible and concrete
23 improvement to the camera itself, and addresses a technological problem rooted in the
24 domain of cameras and digital imaging technology.

25 105. Additionally, the claims of the ’832 Patent capture the key concepts of
26 the invention, demonstrating that such concepts are inventive. Claim 1, for example,
27 recites “obtain[ing] video information,” “obtain[ing] rotational position information
28 for the video,” “determining a viewing window for the visual content as a function of

1 progress through the progress length based on the rotational positions,” and
2 “generat[ing] the horizon-leveled content . . . including a punchout of the extents of
3 the visual content defined by the viewing window.” This ordered combination of
4 limitations provides a specific set of requirements for achieving the desired results of
5 the claimed invention that are not routine, conventional, or well-known.

6 106. Dependent claim 2 of the ’832 Patent recites a further inventive concept,
7 wherein the “viewing window” has a one-by-one aspect ratio which, as discussed
8 above, reduces the impact of an off-axis horizon while also enabling the invention to
9 work as intended when the image capture device is rotated to an angle up to 90
10 degrees. This use of a one-by-one aspect ratio for the viewing window of the claimed
11 invention is not routine, conventional, or well-known.

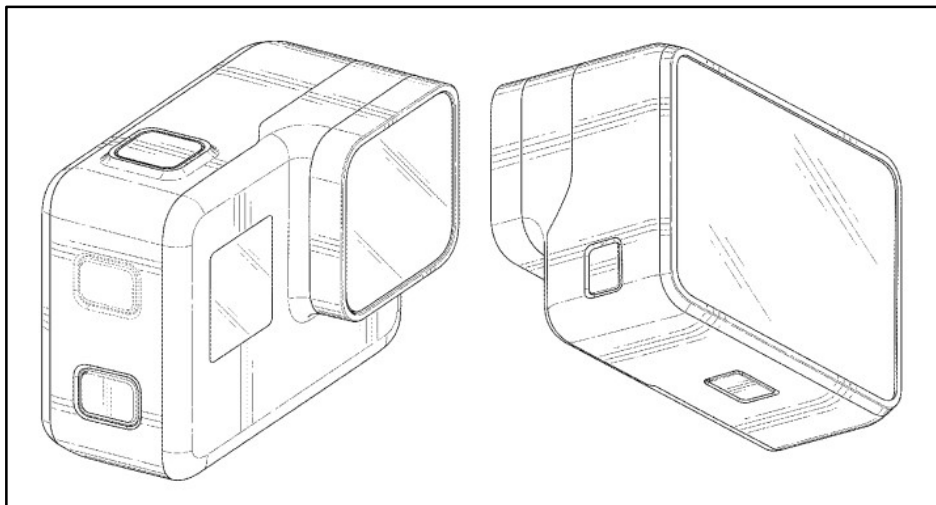
12 107. Finally, dependent claim 3 of the ’832 recites “wherein the visual content
13 includes a distortion such that a straight line within a scene depicted within the visual
14 content appears as a curved line, the distortion of the visual content reducing impact
15 of an off-axis horizon depicted within the horizon-leveled visual content.” This
16 intentional introduction of distortion in order to reduce the impact of an off-axis
17 horizon, within the context of the invention as a whole, is also not routine,
18 conventional, or well-known. If anything, intentional introduction of distortion for
19 this purpose is counter-intuitive, reflecting the novel aspects of the claimed invention.

20 **E. The D’435 Patent**

21 108. U.S. Patent No. D789,435 (“D’435 Patent”) is entitled “Camera” and
22 was issued on June 13, 2017. A true and correct copy of the D’435 Patent is attached
23 as Exhibit F.

24 109. The D’435 Patent was filed on October 26, 2016 as U.S. Patent
25 Application No. 29/582,287, which is a continuation of U.S. Patent Application No.
26 29/554,818 filed February 16, 2016, issued as U.S. Patent No. D773,546, which is a
27 continuation of U.S. Patent Application No. 29/545,934 filed November 17, 2015,
28 issued as U.S. Patent No. D769,346.

1 110. For years, the iconic design covered by D’435 has become synonymous
 2 in the eye of consumers with GoPro’s brand and its unique line of cameras.



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11 **Defendants’ Use of GoPro’s Patented Technologies and Design**

12 111. Seizing on the success of GoPro’s inventions, Defendants have been
 13 producing and selling Accused Camera Systems and Accused Editing Applications
 14 that unlawfully utilize GoPro’s patented technologies since at least 2018. The
 15 Accused Camera Systems include at least, the Insta360 “One X,” “One R,” “One R
 16 1-inch,” “One X2,” “One RS,” “One RS 1-inch 360,” “One X3,” “Go 3,” “Ace,” and
 17 “Ace Pro.”

18 112. On information and belief, Defendants released the Accused Camera
 19 Systems on the following dates:

20

Insta360 Camera System	Approximate Release Date
One X	October 2018
One R	January 2020
One R 1-Inch	January 2020
One X2	October 2020
One RS	March 2022
One RS 1-Inch 360 Edition	June 2022

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One X3	September 2022
Go 3	June 2023
Ace	November 2023
Ace Pro	November 2023

113. On information and belief, Insta360 releases new updates for the firmware of its Accused Camera Systems. As these software updates are released, infringing features are implemented into previously released Accused Camera Systems.

114. For example, on information and belief, on or about November 22, 2021, Defendants released their “Quick FlowState” feature “with greatly improved stabilization straight out of the camera.”⁸ The Quick FlowState, or FlowState 2.0 feature was made available to previously released Accused Camera Systems, resulting in those previously released Accused Camera Systems infringing the ’894 Patent and the ’840 Patents at least by the date of that new software release.

115. Similarly, on information and belief, in 2021 Defendants released their “horizon lock” feature and made this feature available to previously released Accused Camera Systems, resulting in those previously released Accused Camera Systems infringing the ’832 Patent at least by the date of that new software release.⁹

116. On information and belief, Defendants have offered the Accused Editing Applications since 2019. Again, Defendants update their Accused Editing Applications over time, adding features that infringe the Patents-in-Suit as of the date of their release.

⁸ <https://www.insta360.com/blog/news/insta360-update-speeds-up-workflow.html>

⁹ <https://onlinemanual.insta360.com/oner/en-us/camera/horizonlock>

1 **COUNT I: INFRINGEMENT OF U.S. PATENT NO. 10,015,413**

2 117. GoPro incorporates by reference and re-alleges all of the foregoing
3 paragraphs of this Complaint as if fully set forth herein.

4 118. GoPro owns by assignment all rights, title, and interest in and to the '413
5 Patent, with the full and exclusive right to bring suit to enforce the '413 Patent,
6 including the right to recover for past infringement.

7 119. The '413 Patent is valid and enforceable under United States Patent
8 Laws.

9 120. Defendants have infringed and are infringing, either literally or under the
10 doctrine of equivalents, the '413 Patent in violation of 35 U.S.C. § 271 et seq., directly
11 and/or indirectly, by making, using, offering for sale, or selling in the United States,
12 and/or importing into the United States, without authority or license, the Accused
13 Camera Systems.

14 121. The Accused Camera Systems satisfy each and every limitation of at
15 least claims 1, 2, and 13 of the '413 Patent. The Accused Camera Systems are non-
16 limiting examples that were identified based on publicly available information, and
17 GoPro reserves the right to identify additional infringing activities, products and
18 services, including, for example, on the basis of information obtained during
19 discovery.

20 122. On information and belief, and after a reasonable investigation, each of
21 the Accused Camera Systems is capable of performing at least one shooting mode—
22 *e.g.*, “FreeFrame,” “FreeCapture,” and “ActionView”—that stretches the sides of an
23 image or video captured in a 4:3 aspect ratio to fit into a 16:9 frame while the center
24 of the frame remains unchanged. Such features infringe GoPro’s '413 Patent.

25 123. As a non-limiting example, Exhibit **G** is an exemplary claim chart
26 matching the limitations of exemplary claims against an exemplary Accused Camera
27 System. On information and belief, all of the Accused Camera Systems include
28 equivalent functionality to that identified in Exhibit **G** and infringe for similar reasons.

1 124. The contentions in Exhibit G are based on publicly available
2 information. GoPro reserves the right to modify these contentions, including, for
3 example, on the basis of information about the Accused Camera Systems that it
4 obtains during discovery.

5 125. Defendants have been, and currently are, liable for direct infringement
6 of the '413 Patent under 35 U.S.C. § 271(a), because Defendants, their agents, and
7 those acting in concert with Defendants import, use, sell, and offer for sale the
8 Accused Camera Systems in the United States.

9 126. Defendants knew of the '413 Patent, or should have known of the '413
10 Patent but were willfully blind to its existence. GoPro has openly marketed and
11 advertised the consumer facing-features of the claimed '413 Patent invention under
12 the branded term "SuperView," which has been incorporated into GoPro's
13 commercially available camera systems starting with the HERO3+ released in
14 October of 2013.¹⁰ GoPro has a practice of marking its products that practice the '413
15 Patent, including on its virtual marking website.¹¹

16 127. Also, on information and belief, Defendants monitor GoPro's camera
17 systems and technology. For example, in a prospectus for its initial public offering
18 and listing on the Shanghai Stock Exchange's Science and Technology Innovation
19 Board, Insta360 listed GoPro as the first of three "major competitors," and provided
20 a technical comparison between certain of the Accused Camera Systems and GoPro's
21 MAX, HERO8, and HERO9 camera systems, all of which practice the invention of
22 the '413 Patent.

23 128. At a minimum, Defendants have had actual knowledge of the '413 Patent
24 since at least as early as the filing and/or service of this Complaint and as of the filing
25 of GoPro's parallel complaint asserting the '413 Patent in the International Trade
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27 _____
¹⁰ https://community.gopro.com/s/article/What-is-SuperView?language=en_US

28 ¹¹ <https://gopro.com/en/us/legal/patents>

1 Commission. Additional allegations regarding Defendants' knowledge of the '413
2 Patent will likely have further evidentiary support after a reasonable opportunity for
3 discovery.

4 129. Defendants have been, and currently are, liable for inducement of
5 infringement by others of the '413 Patent under 35 U.S.C. § 271(b). Defendants have
6 provided the Accused Camera Systems to others, including customers, in an
7 infringing manner while being on notice of or willfully blind to the '413 Patent and
8 the infringing nature of the Accused Camera Systems. On information and belief,
9 Defendants knew or should have known of the '413 Patent, or deliberately took steps
10 to avoid learning those facts. Nevertheless, Defendants knowingly and intentionally
11 instructed, encouraged, and aided others, including its end-customers, to directly
12 infringe the '413 Patent, including by providing the Accused Camera Systems,
13 instruction manuals, and other product support to enable and facilitate infringement
14 while specifically intending that its actions would result in infringement of at least
15 one claim of the '413 Patent.

16 130. Defendants have been, and currently are, liable for contributory
17 infringement of the '413 Patent under 35 U.S.C. § 271(c). Defendants have provided
18 the Accused Camera Systems and/or hardware and software components thereof
19 which embody a material part of the claimed inventions of the '413 Patent, are known
20 by Defendants to be specially made or adapted for use in an infringing manner, and
21 are not staple articles with substantial non-infringing uses. The Accused Camera
22 Systems and their supporting hardware and software components are specially
23 designed to infringe at least one claim of the '413 Patent, and such supporting
24 components have no substantial non-infringing uses.

25 131. Defendants' infringement of the '413 Patent is exceptional and entitles
26 GoPro to attorneys' fees and costs incurred in prosecuting this action under 35 U.S.C.
27 § 285.

28 132. GoPro has been damaged by Defendants' infringement of the '413 Patent

1 and will continue to be damaged unless Defendants are enjoined by this Court.

2 133. GoPro has suffered and continues to suffer irreparable injury for which
3 there is no adequate remedy at law. The balance of hardships favors GoPro, and
4 public interest is not disserved by an injunction.

5 134. GoPro is entitled to recover from Defendants all damages that GoPro has
6 sustained as a result of Defendants' infringement of the '413 Patent, including without
7 limitation lost profits and not less than a reasonable royalty.

8 **COUNT II: INFRINGEMENT OF U.S. PATENT NO. 10,529,052**

9 135. GoPro incorporates by reference and re-alleges all of the foregoing
10 paragraphs of this Complaint as if fully set forth herein.

11 136. GoPro owns by assignment all rights, title, and interest in and to the '052
12 Patent, with the full and exclusive right to bring suit to enforce the '052 Patent,
13 including the right to recover for past infringement.

14 137. The '052 Patent is valid and enforceable under United States Patent
15 Laws.

16 138. Defendants have infringed and are infringing, either literally or under the
17 doctrine of equivalents, the '052 Patent in violation of 35 U.S.C. § 271 et seq., directly
18 and/or indirectly, by making, using, offering for sale, or selling in the United States,
19 and/or importing into the United States, without authority or license, the Accused
20 Camera Systems and Accused Editing Applications.

21 139. The Accused Camera Systems and Accused Editing Applications satisfy
22 each and every limitation of at least claims 1 and 11 of the '052 Patent. The Accused
23 Camera Systems and Accused Editing Applications are non-limiting examples that
24 were identified based on publicly available information, and GoPro reserves the right
25 to identify additional infringing activities, products and services, including, for
26 example, on the basis of information obtained during discovery.

27 140. On information and belief, and after a reasonable investigation,
28 Defendants' Accused Editing Applications have incorporated manual and automatic

1 video reframing operations—*e.g.*, zooming, cropping, panning, and keyframes
2 (manual) and object tracking (automatic)—that utilize virtual lens technology to
3 remap input lens distortion in sub-frames of input images to create the appearance of
4 consistent lens distortion across edited output images. These editing features infringe
5 GoPro’s ’052 Patent.

6 141. Further, on information and belief, and after a reasonable investigation,
7 Defendants have further offered their Accused Camera Systems with in-camera
8 stabilization technology that also utilizes virtual lens technology to remap input lens
9 distortion in sub-frames of input images to create the appearance of consistent lens
10 distortion across cropped and reframed output images. These Accused Camera
11 Systems also infringe GoPro’s ’052 Patent.

12 142. As non-limiting examples, Exhibit **H** is an exemplary claim chart
13 matching the limitations of exemplary claims against an exemplary Accused Camera
14 System and Accused Editing Applications. On information and belief, all of the
15 Accused Camera Systems and Accused Editing Applications include equivalent
16 functionality to that identified in Exhibit **H** and infringe for similar reasons.

17 143. The contentions in Exhibit **H** are based on publicly available
18 information. GoPro reserves the right to modify these contentions, including, for
19 example, on the basis of information about the Accused Camera Systems and Accused
20 Editing Applications that it obtains during discovery.

21 144. Defendants have been, and currently are, liable for direct infringement
22 of the ’052 Patent under 35 U.S.C. § 271(a), because Defendants, their agents, and
23 those acting in concert with Defendants import, use, sell, and offer for sale the
24 Accused Camera Systems and Accused Editing Applications in the United States.

25 145. Defendants knew of the ’052 Patent, or should have known of the ’052
26 Patent but were willfully blind to its existence. GoPro has openly marketed and
27 advertised the consumer facing-features of the claimed ’052 Patent invention in its
28 own editing application such as GoPro Studio and the “FX Reframe” plugin for Adobe

1 Premiere.¹² GoPro has a practice of marking its products that practice the '052 Patent,
2 including on its virtual marking website.¹³

3 146. Also, on information and belief, Defendants monitor GoPro's camera
4 systems and technology. For example, in a prospectus for its initial public offering
5 and listing on the Shanghai Stock Exchange's Science and Technology Innovation
6 Board, Insta360 listed GoPro as the first of three "major competitors," and provided
7 a technical comparison between certain of the Accused Camera Systems and GoPro's
8 MAX, HERO8, and HERO9 camera systems, all of which practice the invention of
9 the '052 Patent.

10 147. At a minimum, Defendants have had actual knowledge of the '052 Patent
11 since at least as early as the filing and/or service of this Complaint and as of the filing
12 of GoPro's parallel complaint asserting the '052 Patent in the International Trade
13 Commission. Additional allegations regarding Defendants' knowledge of the '052
14 Patent will likely have further evidentiary support after a reasonable opportunity for
15 discovery.

16 148. Defendants have been, and currently are, liable for inducement of
17 infringement by others of the '052 Patent under 35 U.S.C. § 271(b). Defendants have
18 provided the Accused Camera Systems and Accused Editing Applications to others,
19 including customers, in an infringing manner while being on notice of or willfully
20 blind to the '052 Patent and the infringing nature of the Accused Camera Systems and
21 Accused Editing Applications. On information and belief, Defendants knew or
22 should have known of the '052 Patent, or deliberately took steps to avoid learning
23 those facts. Nevertheless, Defendants knowingly and intentionally instructed,
24 encouraged, and aided others, including its end-customers, to directly infringe the
25

26 ¹² [https://community.gopro.com/s/article/GoPro-legacy-](https://community.gopro.com/s/article/GoPro-legacy-software?language=en_US)
27 [software?language=en_US; https://community.gopro.com/s/article/GoPro-FX-](https://community.gopro.com/s/article/GoPro-FX-Reframe?language=en_US)
28 [Reframe?language=en_US](https://community.gopro.com/s/article/GoPro-FX-Reframe?language=en_US)

¹³ <https://gopro.com/en/us/legal/patents>

1 '052 Patent, including by providing the Accused Camera Systems and Accused
2 Editing Applications, instruction manuals, and other product support to enable and
3 facilitate infringement while specifically intending that its actions would result in
4 infringement of at least one claim of the '052 Patent.

5 149. Defendants have been, and currently are, liable for contributory
6 infringement of the '052 Patent under 35 U.S.C. § 271(c). Defendants have provided
7 the Accused Camera Systems, Accused Editing Applications, and/or hardware and
8 software components thereof which embody a material part of the claimed inventions
9 of the '052 Patent, are known by Defendants to be specially made or adapted for use
10 in an infringing manner, and are not staple articles with substantial non-infringing
11 uses. The Accused Camera Systems, Accused Editing Applications, and their
12 supporting hardware and software components are specially designed to infringe at
13 least one claim of the '052 Patent, and such supporting components have no
14 substantial non-infringing uses.

15 150. Defendants' infringement of the '052 Patent is exceptional and entitles
16 GoPro to attorneys' fees and costs incurred in prosecuting this action under 35 U.S.C.
17 § 285.

18 151. GoPro has been damaged by Defendants' infringement of the '052 Patent
19 and will continue to be damaged unless Defendants are enjoined by this Court.

20 152. GoPro has suffered and continues to suffer irreparable injury for which
21 there is no adequate remedy at law. The balance of hardships favors GoPro, and
22 public interest is not disserved by an injunction.

23 153. GoPro is entitled to recover from Defendants all damages that GoPro has
24 sustained as a result of Defendants' infringement of the '052 Patent, including without
25 limitation lost profits and not less than a reasonable royalty.

26 **COUNT III: INFRINGEMENT OF U.S. PATENT NO. 10,574,894**

27 154. GoPro incorporates by reference and re-alleges all of the foregoing
28 paragraphs of this Complaint as if fully set forth herein.

1 155. GoPro owns by assignment all rights, title, and interest in and to the '894
2 Patent, with the full and exclusive right to bring suit to enforce the '894 Patent,
3 including the right to recover for past infringement.

4 156. The '894 Patent is valid and enforceable under United States Patent
5 Laws.

6 157. Defendants have infringed and are infringing, either literally or under the
7 doctrine of equivalents, the '894 Patent in violation of 35 U.S.C. § 271 et seq., directly
8 and/or indirectly, by making, using, offering for sale, or selling in the United States,
9 and/or importing into the United States, without authority or license, the Accused
10 Camera Systems and Accused Editing Applications.

11 158. The Accused Camera Systems and Accused Editing Applications satisfy
12 each and every limitation of at least claim 1 of the '894 Patent. The Accused Camera
13 Systems and Accused Editing Applications are non-limiting examples that were
14 identified based on publicly available information, and GoPro reserves the right to
15 identify additional infringing activities, products and services, including, for example,
16 on the basis of information obtained during discovery.

17 159. On information and belief, and after a reasonable investigation, since
18 approximately November 2021, Defendants' Accused Camera Systems have included
19 in-camera video stabilization features, referred to as "Quick Flowstate" and
20 "Flowstate 2.0." These stabilization features infringe GoPro's '894 Patent. Further,
21 on information and belief Defendants' Accused Editing Systems, used together with
22 Defendants' Accused Camera Systems further include stabilization features that
23 infringe GoPro's '894 Patent.

24 160. As non-limiting examples, Exhibit I is an exemplary claim chart
25 matching the limitations of an exemplary claim against an exemplary Accused
26 Camera System. On information and belief, all of the Accused Camera Systems, in
27 isolation or working together with one or more of the Accused Editing Applications
28

1 include equivalent functionality to that identified in Exhibit I and infringe for similar
2 reasons.

3 161. The contentions in Exhibit I are based on publicly available information.
4 GoPro reserves the right to modify these contentions, including, for example, on the
5 basis of information about the Accused Camera Systems and Accused Editing
6 Applications that it obtains during discovery.

7 162. Defendants have been, and currently are, liable for direct infringement
8 of the '894 Patent under 35 U.S.C. § 271(a), because Defendants, their agents, and
9 those acting in concert with Defendants import, use, sell, and offer for sale the
10 Accused Camera Systems and Accused Editing Applications in the United States.

11 163. Defendants knew of the '894 Patent, or should have known of the '894
12 Patent but were willfully blind to its existence. GoPro has openly marketed and
13 advertised the consumer facing-features of the claimed '894 Patent invention under
14 the branded term "HyperSmooth," which has been incorporated into GoPro's
15 commercially available camera systems starting with the HERO7 Black released in
16 September of 2018.¹⁴ GoPro has a practice of marking its products that practice the
17 '894 Patent, including on its virtual marking website.¹⁵

18 164. Also, on information and belief, Defendants monitor GoPro's camera
19 systems and technology. For example, in a prospectus for its initial public offering
20 and listing on the Shanghai Stock Exchange's Science and Technology Innovation
21 Board, Insta360 listed GoPro as the first of three "major competitors," and provided
22 a technical comparison between certain of the Accused Camera Systems and GoPro's
23 MAX, HERO8, and HERO9 camera systems, all of which practice the invention of
24 the '894 Patent.

25 165. On information and belief, Defendants also had knowledge of the
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27 ¹⁴ [https://community.gopro.com/s/article/What-is-
HyperSmooth?language=en_US](https://community.gopro.com/s/article/What-is-HyperSmooth?language=en_US)

28 ¹⁵ <https://gopro.com/en/us/legal/patents>

1 invention disclosed and claimed in the '894 Patent no later than December 30, 2020.
2 On that date, an affiliate of Defendants named "Insta360 Innovation Technology Co.
3 Ltd." filed an application for what became Chinese Patent CN112804444B. Chinese
4 Patent CN112804444B cites, as relevant prior art, U.S. Patent No. 10,587,807, which
5 is assigned to GoPro and whose application was the "great-grandfather" to the
6 application that resulted in the '894 Patent. The '894 Patent claims priority through
7 a chain of continuation applications to U.S. Patent No. 10,587,807.

8 166. At a minimum, Defendants have had actual knowledge of the '894 Patent
9 since at least as early as the filing and/or service of this Complaint and as of the filing
10 of GoPro's parallel complaint asserting the '894 Patent in the International Trade
11 Commission. Additional allegations regarding Defendants' knowledge of the '894
12 Patent will likely have further evidentiary support after a reasonable opportunity for
13 discovery.

14 167. Defendants have been, and currently are, liable for inducement of
15 infringement by others of the '894 Patent under 35 U.S.C. § 271(b). Defendants have
16 provided the Accused Camera Systems and Accused Editing Applications to others,
17 including customers, in an infringing manner while being on notice of or willfully
18 blind to the '894 Patent and the infringing nature of the Accused Camera Systems and
19 Accused Editing Applications. On information and belief, Defendants knew or
20 should have known of the '894 Patent, or deliberately took steps to avoid learning
21 those facts. Nevertheless, Defendants knowingly and intentionally instructed,
22 encouraged, and aided others, including its end-customers, to directly infringe the
23 '894 Patent, including by providing the Accused Camera Systems and Accused
24 Editing Applications, instruction manuals, and other product support to enable and
25 facilitate infringement while specifically intending that its actions would result in
26 infringement of at least one claim of the '894 Patent.

27 168. Defendants have been, and currently are, liable for contributory
28 infringement of the '894 Patent under 35 U.S.C. § 271(c). Defendants have provided

1 the Accused Camera Systems, Accused Editing Applications, and/or hardware and
2 software components thereof which embody a material part of the claimed inventions
3 of the '894 Patent, are known by Defendants to be specially made or adapted for use
4 in an infringing manner, and are not staple articles with substantial non-infringing
5 uses. The Accused Camera Systems, Accused Editing Applications, and their
6 supporting hardware and software components are specially designed to infringe at
7 least one claim of the '894 Patent, and such supporting components have no
8 substantial non-infringing uses.

9 169. Defendants' infringement of the '894 Patent is exceptional and entitles
10 GoPro to attorneys' fees and costs incurred in prosecuting this action under 35 U.S.C.
11 § 285.

12 170. GoPro has been damaged by Defendants' infringement of the '894 Patent
13 and will continue to be damaged unless Defendants are enjoined by this Court.

14 171. GoPro has suffered and continues to suffer irreparable injury for which
15 there is no adequate remedy at law. The balance of hardships favors GoPro, and
16 public interest is not disserved by an injunction.

17 172. GoPro is entitled to recover from Defendants all damages that GoPro has
18 sustained as a result of Defendants' infringement of the '894 Patent, including without
19 limitation lost profits and not less than a reasonable royalty.

20 **COUNT IV: INFRINGEMENT OF U.S. PATENT NO. 10,958,840**

21 173. GoPro incorporates by reference and re-alleges all of the foregoing
22 paragraphs of this Complaint as if fully set forth herein.

23 174. GoPro owns by assignment all rights, title, and interest in and to the '840
24 Patent, with the full and exclusive right to bring suit to enforce the '840 Patent,
25 including the right to recover for past infringement.

26 175. The '840 Patent is valid and enforceable under United States Patent
27 Laws.

28 176. Defendants have infringed and are infringing, either literally or under the

1 doctrine of equivalents, the '840 Patent in violation of 35 U.S.C. § 271 et seq., directly
2 and/or indirectly, by making, using, offering for sale, or selling in the United States,
3 and/or importing into the United States, without authority or license, the Accused
4 Camera Systems and Accused Editing Applications.

5 177. The Accused Camera Systems and Accused Editing Applications satisfy
6 each and every limitation of at least claim 1 of the '840 Patent. The Accused Camera
7 Systems and Accused Editing Applications are non-limiting examples that were
8 identified based on publicly available information, and GoPro reserves the right to
9 identify additional infringing activities, products and services, including, for example,
10 on the basis of information obtained during discovery.

11 178. On information and belief, and after a reasonable investigation, since
12 approximately November 2021, Defendants' Accused Camera Systems have included
13 in-camera video stabilization features, referred to as "Quick Flowstate" and
14 "Flowstate 2.0." These stabilization features infringe GoPro's '840 Patent. Further,
15 on information and belief Defendants' Accused Editing Systems, used together with
16 Defendants' Accused Camera Systems further include stabilization features that
17 infringe GoPro's '840 Patent.

18 179. As non-limiting examples, Exhibit **J** is an exemplary claim chart
19 matching the limitations of an exemplary claim against an exemplary Accused
20 Camera System. On information and belief, all of the Accused Camera Systems, in
21 isolation or working together with one or more of the Accused Editing Applications
22 include equivalent functionality to that identified in Exhibit **J** and infringe for similar
23 reasons.

24 180. The contentions in Exhibit **J** are based on publicly available
25 information. GoPro reserves the right to modify these contentions, including, for
26 example, on the basis of information about the Accused Camera Systems and Accused
27 Editing Applications that it obtains during discovery.

28 181. Defendants have been, and currently are, liable for direct infringement

1 of the '840 Patent under 35 U.S.C. § 271(a), because Defendants, their agents, and
2 those acting in concert with Defendants import, use, sell, and offer for sale the
3 Accused Camera Systems and Accused Editing Applications in the United States.

4 182. Defendants knew of the '840 Patent, or should have known of the '840
5 Patent but were willfully blind to its existence. GoPro has openly marketed and
6 advertised the consumer facing-features of the claimed '840 Patent invention under
7 the branded term "HyperSmooth," which has been incorporated into GoPro's
8 commercially available camera systems starting with the HERO7 Black released in
9 September of 2018.¹⁶ GoPro has a practice of marking its products that practice the
10 '840 Patent, including on its virtual marking website.¹⁷

11 183. Also, on information and belief, Defendants monitor GoPro's camera
12 systems and technology. For example, in a prospectus for its initial public offering
13 and listing on the Shanghai Stock Exchange's Science and Technology Innovation
14 Board, Insta360 listed GoPro as the first of three "major competitors," and provided
15 a technical comparison between certain of the Accused Camera Systems and GoPro's
16 MAX, HERO8, and HERO9 camera systems, all of which practice the invention of
17 the '840 Patent.

18 184. At a minimum, Defendants have had actual knowledge of the '840 Patent
19 since at least as early as the filing and/or service of this Complaint and as of the filing
20 of GoPro's parallel complaint asserting the '840 Patent in the International Trade
21 Commission. Additional allegations regarding Defendants' knowledge of the '840
22 Patent will likely have further evidentiary support after a reasonable opportunity for
23 discovery.

24 185. Defendants have been, and currently are, liable for inducement of
25 infringement by others of the '840 Patent under 35 U.S.C. § 271(b). Defendants have

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27 ¹⁶ [https://community.gopro.com/s/article/What-is-
HyperSmooth?language=en_US](https://community.gopro.com/s/article/What-is-HyperSmooth?language=en_US)

28 ¹⁷ <https://gopro.com/en/us/legal/patents>

1 provided the Accused Camera Systems and Accused Editing Applications to others,
2 including customers, in an infringing manner while being on notice of or willfully
3 blind to the '840 Patent and the infringing nature of the Accused Camera Systems and
4 Accused Editing Applications. On information and belief, Defendants knew or
5 should have known of the '840 Patent, or deliberately took steps to avoid learning
6 those facts. Nevertheless, Defendants knowingly and intentionally instructed,
7 encouraged, and aided others, including its end-customers, to directly infringe the
8 '840 Patent, including by providing the Accused Camera Systems and Accused
9 Editing Applications, instruction manuals, and other product support to enable and
10 facilitate infringement while specifically intending that its actions would result in
11 infringement of at least one claim of the '840 Patent.

12 186. Defendants have been, and currently are, liable for contributory
13 infringement of the '840 Patent under 35 U.S.C. § 271(c). Defendants have provided
14 the Accused Camera Systems, Accused Editing Applications, and/or hardware and
15 software components thereof which embody a material part of the claimed inventions
16 of the '840 Patent, are known by Defendants to be specially made or adapted for use
17 in an infringing manner, and are not staple articles with substantial non-infringing
18 uses. The Accused Camera Systems, Accused Editing Applications, and their
19 supporting hardware and software components are specially designed to infringe at
20 least one claim of the '840 Patent, and such supporting components have no
21 substantial non-infringing uses.

22 187. Defendants' infringement of the '840 Patent is exceptional and entitles
23 GoPro to attorneys' fees and costs incurred in prosecuting this action under 35 U.S.C.
24 § 285.

25 188. GoPro has been damaged by Defendants' infringement of the '840 Patent
26 and will continue to be damaged unless Defendants are enjoined by this Court.

27 189. GoPro has suffered and continues to suffer irreparable injury for which
28 there is no adequate remedy at law. The balance of hardships favors GoPro, and

1 public interest is not disserved by an injunction.

2 190. GoPro is entitled to recover from Defendants all damages that GoPro has
3 sustained as a result of Defendants' infringement of the '840 Patent, including without
4 limitation lost profits and not less than a reasonable royalty.

5 **COUNT V: INFRINGEMENT OF U.S. PATENT NO. 11,336,832**

6 191. GoPro incorporates by reference and re-alleges all of the foregoing
7 paragraphs of this Complaint as if fully set forth herein.

8 192. GoPro owns by assignment all rights, title, and interest in and to the '832
9 Patent, with the full and exclusive right to bring suit to enforce the '832 Patent,
10 including the right to recover for past infringement.

11 193. The '832 Patent is valid and enforceable under United States Patent
12 Laws.

13 194. Defendants have infringed and are infringing, either literally or under the
14 doctrine of equivalents, the '832 Patent in violation of 35 U.S.C. § 271 et seq., directly
15 and/or indirectly, by making, using, offering for sale, or selling in the United States,
16 and/or importing into the United States, without authority or license, the Accused
17 Camera Systems and Accused Editing Applications.

18 195. The Accused Camera Systems and Accused Editing Applications satisfy
19 each and every limitation of at least claims 1 and 11 of the '832 Patent. The Accused
20 Camera Systems and Accused Editing Applications are non-limiting examples that
21 were identified based on publicly available information, and GoPro reserves the right
22 to identify additional infringing activities, products and services, including, for
23 example, on the basis of information obtained during discovery.

24 196. On information and belief, and after a reasonable investigation, since
25 approximately 2021, Defendants Accused Camera Systems and Accused Editing
26 Applications have included horizon leveling features, referred to "Horizon Lock."
27 Insta360 claims that its Horizon Lock feature maintains a consistent orientation to
28 achieve more stabilized footage. This feature infringes GoPro's '832 Patent.

1 197. As non-limiting examples, Exhibit **K** is an exemplary claim chart
2 matching the limitations of exemplary claims against an exemplary Accused Camera
3 System. On information and belief, all of the Accused Camera Systems, in isolation
4 or working together with one or more of the Accused Editing Applications include
5 equivalent functionality to that identified in Exhibit **K** and infringe for similar reasons.

6 198. The contentions in Exhibit **K** are based on publicly available
7 information. GoPro reserves the right to modify these contentions, including, for
8 example, on the basis of information about the Accused Camera Systems and Accused
9 Editing Applications that it obtains during discovery.

10 199. Defendants have been, and currently are, liable for direct infringement
11 of the '832 Patent under 35 U.S.C. § 271(a), because Defendants, their agents, and
12 those acting in concert with Defendants import, use, sell, and offer for sale the
13 Accused Camera Systems and Accused Editing Applications in the United States.

14 200. Defendants knew of the '832 Patent, or should have known of the '832
15 Patent but were willfully blind to its existence. GoPro has openly marketed and
16 advertised the consumer facing-features of the claimed '832 Patent invention under
17 the branded term "Horizon Leveling," which has been incorporated into GoPro's
18 commercially available camera systems starting with the HERO9 Black released in
19 September of 2020.¹⁸ GoPro has a practice of marking its products that practice the
20 '832 Patent, including on its virtual marking website.¹⁹

21 201. Also, on information and belief, Defendants monitor GoPro's camera
22 systems and technology. For example, in a prospectus for its initial public offering
23 and listing on the Shanghai Stock Exchange's Science and Technology Innovation
24 Board, Insta360 listed GoPro as the first of three "major competitors," and provided
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27 ¹⁸ https://community.gopro.com/s/article/what-is-horizon-leveling?language=en_US

28 ¹⁹ <https://gopro.com/en/us/legal/patents>

1 a technical comparison between certain of the Accused Camera Systems and GoPro's
2 MAX, HERO8, and HERO9 camera systems. The HERO9 camera system practices
3 the invention of the '832 Patent.

4 202. At a minimum, Defendants have had actual knowledge of the '832 Patent
5 since at least as early as the filing and/or service of this Complaint and as of the filing
6 of GoPro's parallel complaint asserting the '832 Patent in the International Trade
7 Commission. Additional allegations regarding Defendants' knowledge of the '832
8 Patent will likely have further evidentiary support after a reasonable opportunity for
9 discovery.

10 203. Defendants have been, and currently are, liable for inducement of
11 infringement by others of the '832 Patent under 35 U.S.C. § 271(b). Defendants have
12 provided the Accused Camera Systems and Accused Editing Applications to others,
13 including customers, in an infringing manner while being on notice of or willfully
14 blind to the '832 Patent and the infringing nature of the Accused Camera Systems and
15 Accused Editing Applications. On information and belief, Defendants knew or
16 should have known of the '832 Patent, or deliberately took steps to avoid learning
17 those facts. Nevertheless, Defendants knowingly and intentionally instructed,
18 encouraged, and aided others, including its end-customers, to directly infringe the
19 '832 Patent, including by providing the Accused Camera Systems and Accused
20 Editing Applications, instruction manuals, and other product support to enable and
21 facilitate infringement while specifically intending that its actions would result in
22 infringement of at least one claim of the '832 Patent.

23 204. Defendants have been, and currently are, liable for contributory
24 infringement of the '832 Patent under 35 U.S.C. § 271(c). Defendants have provided
25 the Accused Camera Systems, Accused Editing Applications, and/or hardware and
26 software components thereof which embody a material part of the claimed inventions
27 of the '832 Patent, are known by Defendants to be specially made or adapted for use
28 in an infringing manner, and are not staple articles with substantial non-infringing

1 uses. The Accused Camera Systems, Accused Editing Applications, and their
2 supporting hardware and software components are specially designed to infringe at
3 least one claim of the '832 Patent, and such supporting components have no
4 substantial non-infringing uses.

5 205. Defendants' infringement of the '832 Patent is exceptional and entitles
6 GoPro to attorneys' fees and costs incurred in prosecuting this action under 35 U.S.C.
7 § 285.

8 206. GoPro has been damaged by Defendants' infringement of the '832 Patent
9 and will continue to be damaged unless Defendants are enjoined by this Court.

10 207. GoPro has suffered and continues to suffer irreparable injury for which
11 there is no adequate remedy at law. The balance of hardships favors GoPro, and
12 public interest is not disserved by an injunction.

13 208. GoPro is entitled to recover from Defendants all damages that GoPro has
14 sustained as a result of Defendants' infringement of the '832 Patent, including without
15 limitation lost profits and not less than a reasonable royalty.

16 **COUNT VI: INFRINGEMENT OF U.S. PATENT NO. D789,435**

17 209. GoPro incorporates by reference and re-alleges all of the foregoing
18 paragraphs of this Complaint as if fully set forth herein.

19 210. GoPro owns by assignment all rights, title, and interest in and to the
20 D'435 Patent, with the full and exclusive right to bring suit to enforce the D'435
21 Patent, including the right to recover for past infringement.

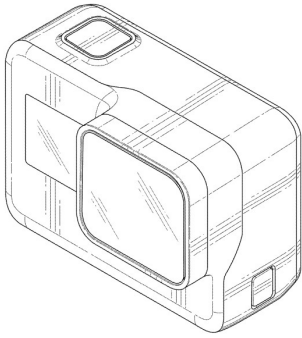


22 211. The D'435 Patent is valid and enforceable under United States Patent
23 Laws.

24 212. The D'435 Patent discloses an "ornamental design for a camera." D'435
25 Patent, Claim.

26 213. Defendants have infringed and are infringing, either literally or under the
27 doctrine of equivalents, the D'435 Patent in violation of 35 U.S.C. § 271 et seq., by
28 making, using, offering for sale, or selling in the United States, and/or importing into

1 the United States, without authority or license, the Insta360 Ace and Ace Pro camera
 2 systems (hereinafter “the D’435 Accused Products”), which embody the ornamental
 3 design claimed by the D’435 Patent. The D’435 Accused Products are non-limiting
 4 examples that were identified based on publicly available information, and GoPro
 5 reserves the right to identify additional infringing products, including for example on
 6 the basis of information obtained during discovery.

7 214. The table below compares exemplary figures from the D’435 Patent with
 8 images of the D’435 Accused Products from Defendants’ website,
 9 www.insta360.com, and marketing materials. In the eye of an ordinary observer,
 10 giving such attention as a purchaser usually gives, the designs of Defendants’ Ace
 11 and Ace Pro camera systems are substantially the same as the design illustrated and
 12 claimed in the D’435 Patent.

The D’435 Patent	D’435 Patent Accused Products
 <p data-bbox="552 1543 600 1564">FIG. 3</p>	<p data-bbox="1177 1039 1242 1071"><u>Ace</u></p>  <p data-bbox="1144 1375 1274 1407"><u>Ace Pro</u></p> 

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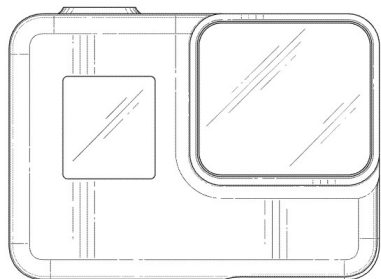


FIG. 5

Ace



Ace Pro

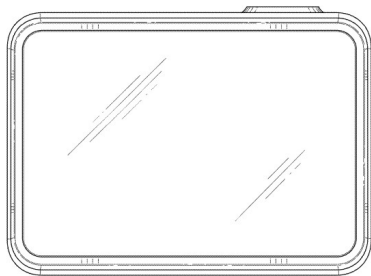


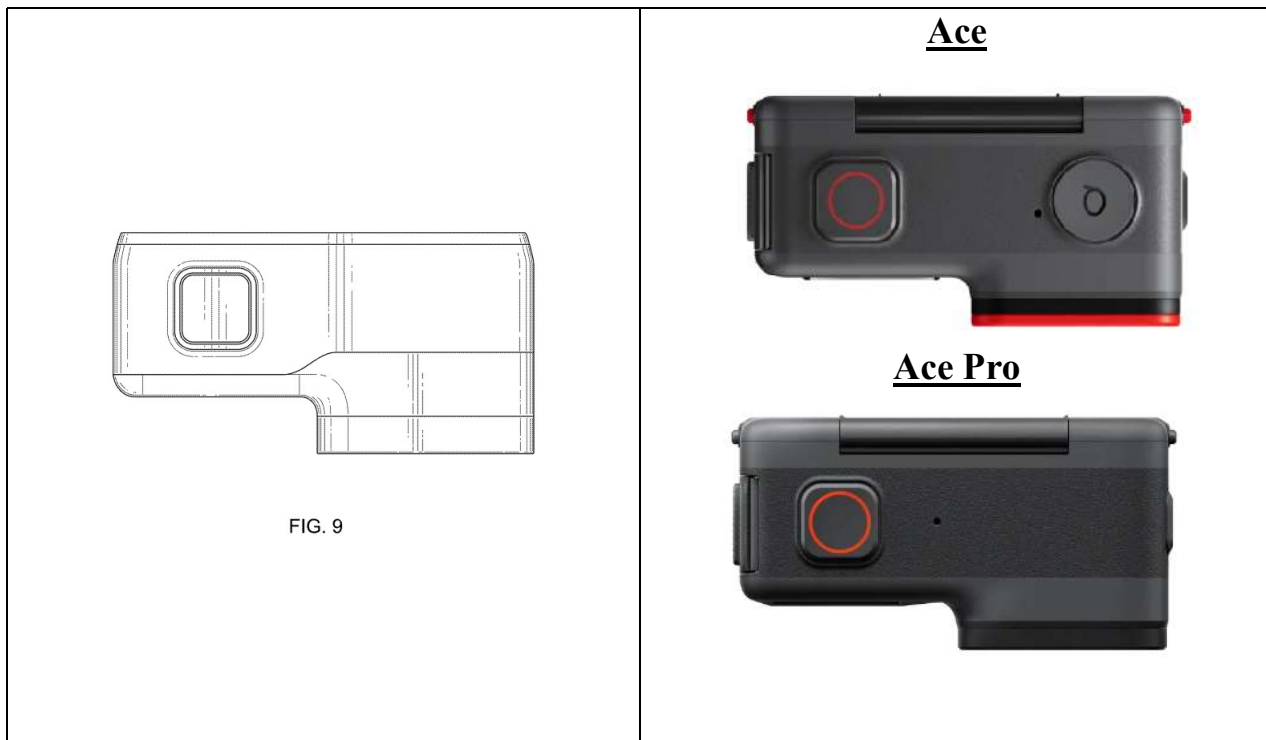
FIG. 6

Ace



Ace Pro





13 215. Further, as non-limiting examples, Exhibit L is an exemplary claim chart
 14 matching the design of the D’435 Patent to the Insta360 D’435 Accused Products.

15 216. The contentions in Exhibit L are based on publicly available
 16 information. GoPro reserves the right to modify these contentions, including, for
 17 example, on the basis of information that it obtains during discovery.

18 217. Defendants knew of the D’435 Patent, or should have known of the
 19 D’435 Patent but were willfully blind to its existence. GoPro has openly marketed
 20 and advertised the design of the D’435 Patent, which has been incorporated into
 21 GoPro’s commercially available “HERO” line of camera systems starting with the
 22 HERO5 Black released in October 2016. GoPro has a practice of marking its products
 23 that practice the D’435 Patent, including on its virtual marking website.²⁰

24 218. Also, on information and belief, Defendants monitor GoPro’s camera
 25 systems. For example, in a prospectus for its initial public offering and listing on the
 26 Shanghai Stock Exchange’s Science and Technology Innovation Board, Insta360

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28 ²⁰ <https://gopro.com/en/us/legal/patents>

1 listed GoPro as the first of three “major competitors,” and provided a comparison
2 between certain of the Accused Camera Systems and GoPro’s MAX, HERO8, and
3 HERO9 camera systems. The HERO8 and HERO9 camera systems embody the
4 patented design of the D’435 Patent.

5 219. At a minimum, Defendants have had actual knowledge of the D’435
6 Patent since at least as early as the filing and/or service of this Complaint and as of
7 the filing of GoPro’s parallel complaint asserting the D’435 Patent in the International
8 Trade Commission. Additional allegations regarding Defendants’ knowledge of the
9 D’435 Patent will likely have further evidentiary support after a reasonable
10 opportunity for discovery.

11 220. Defendants’ infringement of the D’435 Patent is exceptional and entitles
12 GoPro to attorneys’ fees and costs incurred in prosecuting this action under 35 U.S.C.
13 § 285.

14 221. GoPro has been damaged by Defendants’ infringement of the D’435
15 Patent and will continue to be damaged unless Defendants are enjoined by this Court.

16 222. GoPro has suffered and continues to suffer irreparable injury for which
17 there is no adequate remedy at law. The balance of hardships favors GoPro, and
18 public interest is not disserved by an injunction.

19 223. GoPro is entitled to recover from Defendants all damages that GoPro has
20 sustained as a result of Defendants’ infringement of the D’435 Patent, including
21 without limitation lost profits and not less than a reasonable royalty.

22 224. GoPro is also entitled to recover from Defendants the extent of their total
23 profits for the D’435 Accused Products as set forth in 35 U.S.C. § 289.

24 **PRAYER FOR RELIEF**

25 WHEREFORE, GoPro respectfully requests:

26 A. That Judgment be entered that Defendants have infringed one or more
27 claims of the Patents-in-Suit, directly and indirectly, literally and/or under the doctrine
28 of equivalents;

1 B. That, in accordance with 35 U.S.C. § 283, Defendants and all their
2 affiliates, employees, agents, officers, directors, attorneys, successors, and assigns
3 and all those acting on behalf of or in active concert or participation with any of them,
4 be preliminarily and permanently enjoined from (1) infringing the Patents-in-Suit and
5 (2) making, using, selling, and offering for sale the Camera Systems and Video
6 Editing Applications;

7 C. An order directing Defendants to file with the Court and serve upon
8 GoPro's counsel within thirty (30) days after entry of the order of injunction, a report
9 setting forth the manner and form in which Defendants have complied with the
10 injunction, including the provision relating to destruction and recall of infringing
11 products and materials

12 D. An award of damages sufficient to compensate GoPro for Defendants'
13 infringement under 35 U.S.C. § 284, including an enhancement of damages on
14 account of Defendants' willful infringement;

15 E. An award of Defendants' profits for the D'435 Accused Products under
16 35 U.S.C. § 289, including an enhancement of damages on account of Defendants'
17 willful infringement;

18 F. That the case be found exceptional under 35 U.S.C. § 285 and that GoPro
19 be awarded its reasonable attorneys' fees;

20 G. Costs and expenses in this action;

21 H. An award of prejudgment and post-judgment interest; and

22 I. Such other and further relief as the Court may deem just and proper.
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DATED: March 29, 2024

QUINN EMANUEL URQUHART &
SULLIVAN, LLP

By /s/ Sean S. Pak

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Attorneys for Plaintiff, GoPro, Inc.

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DEMAND FOR JURY TRIAL

Pursuant to Rule 38(b) of the Federal Rules of Civil Procedure, GoPro respectfully demands a trial by jury on all issues triable by jury.

DATED: March 29, 2024

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