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8 *Attorneys for Plaintiff Stormborn Technologies LLC.*

9 **IN THE UNITED STATES DISTRICT COURT**  
10 **FOR THE NORTHERN DISTRICT OF CALIFORNIA**  
11 **WESTERN DIVISION**

12 STORMBORN TECHNOLOGIES LLC,

CASE NO.: 3:19-cv-07804-WHO

13  
14 *Plaintiff,*

15 **FIRST AMENDED COMPLAINT**  
16 **FOR PATENT INFRINGEMENT**

17 v.

18 TOPCON POSITIONING SYSTEMS,  
19 INC.,

20 **JURY TRIAL DEMANDED**

21  
22 *Defendant.*  
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1 portion of the infringements alleged herein; (ii) regularly doing or soliciting business,  
2 engaging in other persistent courses of conduct, and/or deriving substantial revenue  
3 from goods and services provided to individuals in this forum state and in this judicial  
4 District; and (iii) being incorporated in this District.

6 9. Venue is proper in this judicial district pursuant to 28 U.S.C. §1400(b)  
7 because Defendant resides in this District under the Supreme Court’s opinion in *TC*  
8 *Heartland v. Kraft Foods Group Brands LLC*, 137 S. Ct. 1514 (2017) through its  
9 incorporation, and regular and established place of business in this District.  
10

11 **FACTUAL ALLEGATIONS**

12  
13 10. On May 7, 2013, the United States Patent and Trademark Office  
14 (“USPTO”) duly and legally issued the ‘199 Patent, entitled “Variable throughput  
15 reduction communications system and method” after a full and fair examination. The  
16 ‘199 Patent is attached hereto as Exhibit A and incorporated herein as if fully rewritten.  
17

18 11. Plaintiff is presently the owner of the ‘199 Patent, having received all  
19 right, title and interest in and to the ‘199 Patent from the previous assignee of record.  
20 Plaintiff possesses all rights of recovery under the ‘199 Patent, including the exclusive  
21 right to recover for past infringement.  
22

23 12. Dr. Donald L. Schilling was, and continues to be, the CEO of Linex  
24 Technologies, Inc. (“Linex”) during the development of the ‘199 Patent.  
25

26 13. Dr. Schilling is a fact witness to the development of the technology in the  
27 ‘199 Patent. A declaration of facts by Dr. Schilling is attached hereto as Exhibit B.  
28

1           14. The '199 Patent was originally owned by Linex. Ex. B at ¶9.

2           15. As identified in the '199 Patent, previous communications systems,  
3 namely in packet-communications spread-spectrum multi-cell systems, high-speed data  
4 would be implemented with a method of parallel channels, using parallel chip-sequence  
5 signals. Ex.A,1:37-41. By using multiple correlators or matched filters, multiple-  
6 orthogonal chip-sequence signals would be sent simultaneously thereby increasing the  
7 data rate while still enjoying the advantage of a high processing gain. Ex. A, 1:41-44.  
8 The multiple chip-sequence signals behaved as multiple users in a single location. Ex.  
9 A, 1:44-45. Multipath was ameliorated by a RAKE receiver, and the interference to be  
10 overcome by the processing gain was that generated by other users, in the same or  
11 adjacent cells. Ex. A, 1:46-48.

12           16. In previous communication systems, when a remote station was within a  
13 cell or cell sector, the path differences from base stations located in the adjacent cells  
14 ensured that the interference was small enough so as not to cause the error rate of the  
15 wanted signal to deteriorate below a usable level. Ex. A, 1:50-54. When the remote  
16 station was near the edge of the cell, however, the interference would be substantial as  
17 the interference can result from two adjacent cells. Ex. A, 1:54-57.

18           17. One previous method that was used to overcome this problem in a  
19 conventional spread-spectrum system was to increase the processing gain in order to  
20 increase the immunity from interference. Ex. A, 1:58-61. To do this, in a fixed  
21 bandwidth system, the data rate was reduced, and the integration time of the correlator  
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1 or the length of the matched filter was increased accordingly. Ex. A, 1:61-63. This  
2 method, however, changed the length of the correlator sequence, or changes the size of  
3 the matched filter; both of which impact the architecture of the receiver. Ex. A, 1:63-  
4 66. In addition, with increased integration times, the chip-tracking loop and phase-  
5 tracking loop would have to function flawlessly and the allowable frequency offset  
6 must have been reduced, requiring at least a frequency locked loop. Ex. A, 1:66-2:3.  
7  
8

9 18. The invention claimed in the '199 Patent addresses these needs and  
10 inefficiencies by providing an improved communication system.

11 19. Claim 11 of the '199 Patent states:

12  
13 "11. A receiver for recovering wireless data conveyed in data  
14 symbols by a plurality of different subchannel signals transmitted over a  
15 wireless channel, comprising:

16 demodulator circuitry for detecting the transmitted signals in a  
17 plurality of demodulated channels;

18 decoder circuitry for FEC decoding and de-interleaving the plurality  
19 of demodulated channels, providing a multiplicity of decoded channels,  
20 each having an error rate;

21 command processor circuitry responsive to the error rate of the  
22 decoded channels for generating a data-rate control signal to produce a  
23 desired data rate to be sent by the data symbol transmitter of the signals,  
24 the data rate control signal controlling operation of circuitry at the  
25 transmitter to produce the desired data rate to be sent by the data symbol  
26 transmitter of the signals;

27 transmitting circuitry for conveying the error rate dependent rate  
28 control signal back to the data symbol transmitter; and

29 multiplexer circuitry for combining the multiplicity of decoded  
30 channels into a signal stream of received data." See Exhibit A.

31 20. Claim 12 of the '199 Patent states:

1 “12. The receiver of claim 11 wherein the decoder circuitry includes  
2 circuitry to decode FEC codes of different rates.” See Exhibit A.

3 21. Claim 13 of the ‘199 Patent states:

4 “13. A method for recovering wireless data conveyed in data  
5 symbols by a plurality of different subchannel signals transmitted over a  
6 wireless channel, comprising the steps of:

7 detecting the transmitted signals in a plurality of demodulated  
8 channels;

9 FEC decoding and de-interleaving the plurality of demodulated  
10 channels, providing a multiplicity of decoded channels, each having an  
11 error rate;

12 using command processor circuitry responsive to the error rate of  
13 the decoded channels to generate a data-rate control signal to produce a  
14 desired data rate to be sent by the data symbol transmitter of the signals,

15 transmitting the error rate dependent data-rate control signal back  
16 to the data symbol transmitter; and

17 multiplexing the multiplicity of decoded channels into a single  
18 stream of received data.” See Exhibit A.

19 22. Claim 14 of the ‘199 Patent states:

20 “14. The method of claim 13 wherein the decoding step includes  
21 decoding FEC codes of different rates.” See Exhibit A.

22 23. At least claim 11 of the ‘199 Patent recite a non-abstract receiver and  
23 method for a communication system.

24 24. The receiver of Claims 11 and 13 in the ‘199 Patent is an improvement on  
25 prior solutions because the command processor circuitry is responsive to the error rate  
26 of the decoded channels to generate a data rate control signal to produce a desired data  
27 rate to be sent by the data symbol transmitter of the signals. Ex.B at ¶26.  
28

1           25. The ‘199 Patent highlighted this unique and discrete idea during its  
2 prosecution.

3           26. During prosecution of the ‘199 Patent, Linex indicated that Claim 11 is  
4 directed to “a receiver including command processor circuitry response to the error rate  
5 of decoded channels for generating a ‘data-rate control signal to produce a desired data  
6 rate to be sent by the transmitter of the signals’ such that the data rate control signal  
7 controls operation of the circuitry at the transmitter to produce a desired data rate. That  
8 is, independent Claim 11 recites the control signal being of a nature to control operation  
9 of circuitry at the transmitter to produce the desired data rate.” See Ex.B at ¶26 citing  
10 to Exhibit 2 at 118.

11           27. Claims 11 and 13 in the ‘199 Patent is not directed to an abstract idea  
12 because Claim 11 (and its method of Claim 13) was able to overcome a network-centric  
13 problem that existed in the prior art by allowing the receiver to maintain a high data  
14 rate without affecting the architecture of the receiver and maintain an immunity to  
15 interference. See generally Ex.B at ¶24.

16           28. At least Claims 11 and 13 of the ‘199 Patent provide the inventive concept  
17 of a receiver and method for a communication system.

18           29. The ‘199 Patent’s advantages and benefits are inventive, unexpected and  
19 superior because it provides improvements to existing computer functionality, provides  
20 specific non-conventional and non-generic arrangements of known, conventional  
21 pieces to overcome an existing problem; provides ordered combination of claimed steps  
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1 in the receiver using unconventional rules that are different than previously used; and  
2 provides improved technological results.

3 30. The '199 Patent provides improvements to then existing computer  
4 network functionality. Ex.B at ¶24.  
5

6 31. Claim 11 (and its method of Claim 13) in the '199 Patent specifically  
7 identifies how the improved computer functionality is carried out in an unexpected way.  
8 See generally Ex.B at ¶24-30.  
9

10 32. To deal with the vulnerability of interference in an intended receiver for  
11 receivers in adjacent cells, the receiver of Claim 11 (and its method of Claim 13) in the  
12 '199 Patent requires command processor circuitry responsive to the error rate of the  
13 decoded channels for generating a data-rate control signal to produce a desired data rate  
14 to be sent by the data symbol transmitter of the signals. Ex.B at ¶25, 27.  
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17 33. These specific elements, as combined, accomplish the desired result of  
18 increased immunity at the intended receiver, from interference generated by nearby  
19 transmitters and from multipath interference produce by the same transmitter,  
20 transmitting signals that are reflected from multiple objects between receivers in  
21 adjacent cells. Ex.B at ¶27.  
22

23 34. These specific elements, including the command processor circuitry, also  
24 accomplish the desired result increasing immunity from interference that was a then  
25 existing problem in the relevant field of spread-spectrum communication systems. Ex.B  
26 at ¶27.  
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1           35. Claim 11 (and its method of Claim 13) in the ‘199 Patent provides other  
2 benefits over conventional receivers, including increased flexibility, faster transmission  
3 times and data transfer, as well as reduced manufacturing requirements. Ex.B at ¶27.  
4

5           36. The ‘199 Patent provides specific non-conventional and non-generic  
6 arrangements of known, conventional pieces to overcome an existing problem. See  
7 generally Ex.B at ¶24-30.  
8

9           37. Claim 11 (and its method of Claim 13) in the ‘199 Patent specifically  
10 identify how the improved computer functionality is carried out in an unexpected way.  
11 See generally Ex.B at ¶24-30.  
12

13           38. The receiver of Claim 11 (and its method of Claim 13) in the ‘199 Patent  
14 deals with the vulnerability of interference of the intended receiver to changes in the  
15 amount of interference. Ex.B at ¶28.  
16

17           39. The receiver of Claim 11 (and its method of Claim 13), provides a  
18 satisfactory error rate (QoS) at the intended receiver. Ex.B at ¶28.  
19

20           40. Prior art methodologies would simply increase processing gain to try to  
21 overcome interference, however this required more processing power and changing the  
22 architecture of the receiver. Ex.B at ¶28.  
23

24           41. The receiver of Claim 11 (and its method of Claim 13) provides specific  
25 elements that were an unconventional arrangement of elements because the prior art  
26 methodologies would simply increase processing gain to try to overcome interference,  
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1 however this required more processing power and changing the architecture of the  
2 receiver.

3 42. By adding the command processor circuitry, the '199 Patent was able to  
4 unconventionally generate a data-rate control signal based on an error-rate of the  
5 decoded channels. See generally Ex.B at ¶¶24-30.

7 43. The receiver of Claim 11 (and its method of Claim 13) in the '199 Patent  
8 provides a receiver that would work with many types of spread-spectrum  
9 communications systems, and is adjustable, either continually or periodically,  
10 depending on the needs of the system designer; is simpler to manufacture than the  
11 preexisting receivers that required architectural changes to overcome interference; and  
12 reduces transmission errors. Ex.B at ¶29.

15 44. Claim 11 (and its method of Claim 13) provided non-conventional and  
16 non-generic arrangements of known, conventional pieces to overcome an existing  
17 problem because the receiver of Claim 11 (and its method of Claim 13) in the '199  
18 Patent provide a receiver that would work with many types of spread-spectrum  
19 communications systems, and is adjustable, either continually or periodically,  
20 depending on the needs of the system designer; is simpler to manufacture than the  
21 preexisting receivers that required architectural changes to overcome interference; and  
22 reduces transmission errors.

26 45. The receiver of Claim 11 in the '199 Patent provides a receiver that would  
27 not preempt all ways of throttling or limiting information between a transmitter and a  
28

1 receiver because the data-rate control signal is based on the error-rate of the decoded  
2 channels. Ex.B at ¶30.

3 46. The receiver of Claim 11 (and its method of Claim 13) in the '199 Patent  
4 provide specific non-conventional and non-generic arrangements of known,  
5 conventional pieces to overcome an existing problem because receiver that would not  
6 preempt all ways of throttling or limiting information between a transmitter and a  
7 receiver. See generally Ex.B at ¶30.  
8

9 47. There are other ways to throttle or limit information between a transmitter  
10 and a receiver because that do not have a data-rate control signal based on the syndrome  
11 (error-rate) of the decoded channels. There may be other ways to limit information  
12 between a transmitter and a receiver because other receivers could have the data-rate  
13 control signal based on the transmission of a known pilot signal. In this instance, an  
14 additional receiver, measures the distortion/attenuation of the pilot and that receiver  
15 sends back to the Transmitter information to control the data rate. The pilot signal is  
16 indirectly related to the actual received data. Ex.B at ¶30.  
17

18 48. The receiver of Claim 11 (and its method of Claim 13) does not preempt  
19 all throttling or limiting information between a transmitter and a receiver because the  
20 data-rate control signal could be based on other timing information from other channels,  
21 such as those that use pilot signals. See generally Ex.B at ¶30.  
22

23 49. The '199 Patent provides improved technological results. See generally  
24 Ex.B at ¶24-30.  
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1           50. To deal with the vulnerability of an intended receiver to multipath and  
2 other interfering received signals, the receiver of Claim 11 (and its method of Claim  
3 13) in the '199 Patent requires command processor circuitry responsive to the syndrome  
4 or error rate of the decoded channels for generating a data-rate control signal to produce  
5 a desired data rate to be sent by the data symbol transmitter of the signals. Ex.B at ¶27.

7           51. Claim 11 (and its method of Claim 13) in the '199 Patent specifically  
8 identifies how the improved computer functionality is carried out in an unexpected way  
9 inasmuch as to deal with the vulnerability of an intended receiver to multipath and other  
10 interfering received signals, the receiver of Claim 11 (and its method of Claim 13) in  
11 the '199 Patent requires command processor circuitry responsive to the syndrome or  
12 error rate of the decoded channels for generating a data-rate control signal to produce  
13 a desired data rate to be sent by the data symbol transmitter of the signals. See generally  
14 Ex.B at ¶24-30.

18           52. The data-rate control signal being based on error-rate in the decoded  
19 channels is a specific implementation of varying the way the control signal is generated  
20 that improves the ability of prior art transmission of data signals between a transmitter  
21 and a receiver. See generally Ex.B at ¶24-30.

23           53. The '199 Patent encompasses patent eligible subject matter inasmuch as  
24 at least Claims 11-14 of the '199 Patent are not an abstract idea but rather are an  
25 inventive idea of a novel and proper design of a receiver and method thereof to employ  
26 a command processor circuitry responsive to the (syndrome) error rate of the decoded  
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1 channels for generating a data-rate control signal to produce a desired data rate to be  
2 sent by the data symbol transmitter of the signal.

3 54. Further, at least Claims 11-14 of the '199 Patent provide inventive  
4 concepts.  
5

6 55. Defendant commercializes, inter alia, devices or methods that perform all  
7 the steps recited in at least one claim of the '199 Patent. More particularly, Defendant  
8 commercializes, inter alia, methods that perform all the steps recited in Claims 11-14  
9 of the '199 Patent. Specifically, Defendant makes, uses, sells, offers for sale, or imports  
10 a device or method that encompasses that which is covered by Claim 11-14 of the '199  
11 Patent.  
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#### 14 **DEFENDANT'S PRODUCT(S)**

15 56. Defendant offers solutions, such as the "Topcon's 3D-MCMAX  
16 Integrated 3D Dozer" system (the "Accused Product"), that is a receiver for recovering  
17 wireless data conveyed in data symbols by a plurality of different subchannel signals  
18 transmitted over a wireless channel which infringe the '199 Patent literally or under the  
19 doctrine of equivalents. A non-limiting and exemplary claim chart comparing the  
20 Accused Product of Claim 11 of the '199 Patent is attached hereto as Exhibit C and is  
21 incorporated herein as if fully rewritten.  
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25 57. As recited in Claim 11, a system, at least in internal testing and usage,  
26 utilized by the Accused Product includes demodulator circuitry for detecting the  
27 transmitted signals in a plurality of demodulated channels. See Exhibit C.  
28

1           58. As recited in one step of Claim 11, the system, at least in internal testing  
2 and usage, utilized by the Accused Product includes decoder circuitry for FEC decoding  
3 and de-interleaving the plurality of demodulated channels, providing a multiplicity of  
4 decoded channels, each having an error rate. See Exhibit C.  
5

6           59. As recited in another step of Claim 11, the system, at least in internal  
7 testing and usage, utilized by the Accused Product includes command processor  
8 circuitry responsive to the error rate of the decoded channels for generating a data-rate  
9 control signal to produce a desired data rate to be sent by the data symbol transmitter  
10 of the signals, the data rate control signal controlling operation of circuitry at the  
11 transmitter to produce the desired data rate to be sent by the data symbol transmitter of  
12 the signals. See Exhibit C.  
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15           60. As recited in one step of Claim 11, the system, at least in internal testing  
16 and usage, utilized by the Accused Product includes transmitting circuitry for  
17 conveying the error rate dependent rate control signal back to the data symbol  
18 transmitter. See Exhibit C.  
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21           61. As recited in another step of Claim 11, the system, at least in internal  
22 testing and usage, utilized by the Accused Product includes multiplexer circuitry for  
23 combining the multiplicity of decoded channels into a signal stream of received data.  
24 See Exhibit C.  
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1           62. As recited in one step of Claim 12, the system, at least in internal testing  
2 and usage, utilized by the Accused Product, wherein the decoder circuitry includes  
3 circuitry to decode FEC codes of different rates. See Exhibit C.  
4

5           63. As recited in one step of Claim 13, the system, at least in internal testing  
6 and usage, utilized by the Accused Product practices a method for recovering wireless  
7 data conveyed in data symbols by a plurality of different subchannel signals transmitted  
8 over a wireless channel. See Exhibit C.  
9

10           64. As recited in another step of Claim 13, the system, at least in internal  
11 testing and usage, utilized by the Accused Product practices detecting the transmitted  
12 signals in a plurality of demodulated channels. See Exhibit C.  
13

14           65. As recited in another step of Claim 13, the system, at least in internal  
15 testing and usage, utilized by the Accused Product practices FEC decoding and de-  
16 interleaving the plurality of demodulated channels, providing a multiplicity of decoded  
17 channels, each having an error rate. See Exhibit C.  
18

19           66. As recited in another step of Claim 13, the system, at least in internal  
20 testing and usage, utilized by the Accused Product practices using command processor  
21 circuitry responsive to the error rate of the decoded channels to generate a data-rate  
22 control signal to produce a desired data rate to be sent by the data symbol transmitter  
23 of the signals. See Exhibit C.  
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1           67. As recited in another step of Claim 13, the system, at least in internal  
2 testing and usage, utilized by the Accused Product practices transmitting the error rate  
3 dependent data-rate control signal back to the data symbol transmitter. See Exhibit C.  
4

5           68. As recited in another step of Claim 13, the system, at least in internal  
6 testing and usage, utilized by the Accused Product practices multiplexing the  
7 multiplicity of decoded channels into a single stream of received data. See Exhibit C.  
8

9           69. As recited in another step of Claim 14, the system, at least in internal  
10 testing and usage, utilized by the Accused Product practices decoding FEC codes of  
11 different rates. See Exhibit C.  
12

13           70. The elements described in the preceding paragraphs are covered by at least  
14 Claim 11 of the '199 Patent literally or under the doctrine of equivalents. Thus,  
15 Defendant's use of the Accused Product is enabled by the method described in the '199  
16 Patent.  
17

18   **INFRINGEMENT OF THE PATENT-IN-SUIT**

19           71. Plaintiff realleges and incorporates by reference all of the allegations set  
20 forth in the preceding paragraphs  
21

22           72. In violation of 35 U.S.C. § 271, Defendant is now, and has been directly  
23 infringing the '199 Patent literally or under the doctrine of equivalents.  
24

25           73. Defendant has had knowledge of infringement of the '199 Patent at least  
26 as of the service of the present Complaint.  
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1           74. Defendant has directly infringed and continues to directly infringe at least  
2 one claim of the '199 Patent by using, at least through internal testing or otherwise, the  
3 Accused Product without authority in the United States, and will continue to do so  
4 unless enjoined by this Court. As a direct and proximate result of Defendant's direct  
5 infringement of the '199 Patent, Plaintiff has been and continues to be damaged.  
6

7           75. Defendant has induced others to infringe the '199 Patent, literally or under  
8 the doctrine of equivalents, by encouraging infringement, knowing that the acts  
9 Defendant induced constituted patent infringement, and its encouraging acts actually  
10 resulted in direct patent infringement.  
11

12           76. Defendant has been and continues to materially contribute to their own  
13 customers' infringement of the '199 Patent, literally or under the doctrine of  
14 equivalents, by selling the Accused Products to customers for use in a manner that  
15 infringes one or more claims of the '199 Patent. Moreover, the Accused Products are  
16 not a staple article of commerce suitable for substantial noninfringing use.  
17

18           77. By engaging in the conduct described herein, Defendant has injured  
19 Plaintiff and is thus liable for infringement of the '199 Patent, pursuant to 35 U.S.C. §  
20 271.  
21

22           78. Defendant has committed these acts of infringement without license or  
23 authorization.  
24

25           79. As a result of Defendant's infringement of the '199 Patent, Plaintiff has  
26 suffered monetary damages and is entitled to a monetary judgment in an amount  
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1 adequate to compensate for Defendant’s past infringement, together with interests and  
2 costs.

3 80. Plaintiff will continue to suffer damages in the future unless Defendant’s  
4 infringing activities are enjoined by this Court. As such, Plaintiff is entitled to  
5 compensation for any continuing and/or future infringement up until the date that  
6 Defendant is finally and permanently enjoined from further infringement.  
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8  
9 81. Plaintiff reserves the right to modify its infringement theories as discovery  
10 progresses in this case; it shall not be estopped for infringement contention or claim  
11 construction purposes by the claim charts that it provides with this Complaint. The  
12 claim chart depicted in Exhibit B is intended to satisfy the notice requirements of Rule  
13 8(a)(2) of the Federal Rule of Civil Procedure and does not represent Plaintiff’s  
14 preliminary or final infringement contentions or preliminary or final claim construction  
15 positions.  
16

17 **DEMAND FOR JURY TRIAL**

18 82. Plaintiff demands a trial by jury of any and all causes of action.  
19

20 **PRAYER FOR RELIEF**

21 WHEREFORE, Plaintiff prays for the following relief:

22 a. That Defendant be adjudged to have directly infringed the ‘199 Patent either  
23 literally or under the doctrine of equivalents;  
24

25 b. That Defendant be adjudged to have induced infringement of the ‘199 Patent  
26 either literally or under the doctrine of equivalents;  
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1 c. That Defendant be adjudged to have contributorily infringed the '199 Patent  
2 either literally or under the doctrine of equivalents;

3 d. An accounting of all infringing sales and damages including, but not limited  
4 to, those sales and damages not presented at trial;

5 e. That Defendant, its officers, directors, agents, servants, employees, attorneys,  
6 affiliates, divisions, branches, parents, and those persons in active concert or  
7 participation with any of them, be permanently restrained and enjoined from directly  
8 infringing the '199 Patent;  
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10 f. An award of damages pursuant to 35 U.S.C. §284 sufficient to compensate  
11 Plaintiff for the Defendant's past infringement and any continuing or future  
12 infringement up until the date that Defendant is finally and permanently enjoined from  
13 further infringement, including compensatory damages;  
14

15 g. An assessment of pre-judgment and post-judgment interest and costs against  
16 Defendant, together with an award of such interest and costs, in accordance with 35  
17 U.S.C. §284;  
18

19 h. That Defendant be directed to pay enhanced damages, including Plaintiff's  
20 attorneys' fees incurred in connection with this lawsuit pursuant to 35 U.S.C. §285; and  
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22 i. That Plaintiff be granted such other and further relief as this Court  
23 may deem just and proper.  
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Dated: January 21, 2020

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Respectfully submitted,

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ATTORNEYS FOR PLAINTIFF

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**CERTIFICATE OF SERVICE**

The undersigned certifies that, on January 20, 2020, the foregoing FIRST AMENDED COMPLAINT FOR PATENT INFRINGEMENT was filed electronically through the Court’s ECF filing system. Pursuant to Fed. R. Civ. P. 5(d), counsel of record will be served by electronic mail on this same date.

/s/ Kirk J. Anderson  
KIRK. J. ANDERSON