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9 SONOHM LICENSING LLC, a Texas limited liability corporation

10 **UNITED STATES DISTRICT COURT**  
11 **NORTHERN DISTRICT OF CALIFORNIA**  
12 **SAN FRANCISCO DIVISION**

13 **SONOHM LICENSING LLC,**  
14 Plaintiff,  
15 v.  
16 **NEX COMPUTERS, INC.,**  
17 Defendant.

Case No. \_\_\_\_\_

**ORIGINAL COMPLAINT FOR  
PATENT INFRINGEMENT**

**DEMAND FOR JURY TRIAL**

18 Plaintiff Sonohm Licensing LLC files this Original Complaint for Patent Infringement  
19 against Nex Computers, Inc., and would respectfully show the Court as follows:

20 **I. THE PARTIES**

21 1. Plaintiff Sonohm Licensing LLC (“Sonohm” or “Plaintiff”) is a Texas limited  
22 liability company with its principal place of business at 15922 Eldorado Pkwy, Suite 500-1641,  
23 Frisco, TX 75035.

24 2. On information and belief, Defendant Nex Computers, Inc. (“Defendant”) is a  
25 corporation organized and existing under the laws of California, with a place of business at 2883  
26 Bayview Drive, Fremont, CA 94538.

1 **II. JURISDICTION AND VENUE**

2 3. This action arises under the patent laws of the United States, Title 35 of the  
3 United States Code. This Court has subject matter jurisdiction of such action under 28 U.S.C. §§  
4 1331 and 1338(a).

5  
6 4. On information and belief, Defendant is subject to this Court’s specific and  
7 general personal jurisdiction, pursuant to due process and the California Long-Arm Statute, due  
8 at least to its business in this forum, including at least a portion of the infringements alleged  
9 herein. Furthermore, Defendant is subject to this Court’s specific and general personal  
10 jurisdiction because Defendant is a California corporation and it has a place of business within  
11 this District.

12 5. Without limitation, on information and belief, within this State and this District,  
13 Defendant has used the patented inventions thereby committing, and continuing to commit, acts  
14 of patent infringement alleged herein. In addition, on information and belief, Defendant has  
15 derived revenues from its infringing acts occurring within California and the Northern District of  
16 California. Further, on information and belief, Defendant is subject to the Court’s general  
17 jurisdiction, including from regularly doing or soliciting business, engaging in other persistent  
18 courses of conduct, and deriving substantial revenue from goods and services provided to  
19 persons or entities in California and the Northern District of California. Further, on information  
20 and belief, Defendant is subject to the Court’s personal jurisdiction at least due to its sale of  
21 products and/or services within California and the Northern District of California. Defendant has  
22 committed such purposeful acts and/or transactions in California and the Northern District of  
23 California such that it reasonably should know and expect that it could be haled into this Court as  
24 a consequence of such activity.  
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1 col. 1:13-17). The master base station establishes communication links with the mobile units and  
2 has a function to detect errors over the communications links with the mobile units. (*Id.* at col.  
3 1:17-20).

4 14. Predictive methods have been used to suppress distorted data packets in order to  
5 improve voice quality over the communication link. (*Id.* at col. 1:21-24). The particular method  
6 chosen generally depends on the speed at which errors over the communication links can be  
7 detected. (*Id.* at col. 1:24-26). In cordless systems in which the single carrier is used, data  
8 packets are correlated from transmission to transmission such that if the quality of a first  
9 transmission is poor then it is highly likely that the next transmission will also be poor. (*Id.* at  
10 col. 1:26-28). As a result, from the data packets from the first transmission, the quality of the  
11 data packets for the next transmission can be predicted and the base station can suitably and  
12 prospectively suppress distorted data packets. (*Id.* at col. 1:29-33).

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15 15. However, frequency hopping systems, which use various carriers over each  
16 communication link and change the carriers from time to time, a problem arises when a  
17 communication link encounters interference problems affecting the quality of the  
18 communications link. (*Id.* at col. 1:35-40). In a frequency hopping scheme, the base station and  
19 mobile units generally move in sync in time from frequency to frequency. (*Id.* at col. 3:55-57).  
20 Mobile units not initially synced with a base unit “listen” to a specific radio frequency to attempt  
21 to lock on to the base station. (*Id.* at col. 3:57-61). When the base station hops to that specific  
22 frequency, the mobile units identify and receive control data transmitted by the base station,  
23 which allows the mobile units to lock with the base station and sync with the frequency hopping  
24 scheme. (*Id.* at col. 3:61-65). The frequency hopping scheme therefore helps the wireless  
25 communication system to avoid bad channels or frequencies due to radio frequency interference  
26 and other problems. (*Id.* at col. 3:65 – col. 4:1).

1           16.     The challenging problem of the frequency hopping scheme is that the system  
2 algorithms ensure that, unlike same carrier wireless communications, the contents of consecutive  
3 data packets are not correlated. (*Id.* at col. 4:4-7). There is also no way to derive from the first  
4 transmission the necessary parameters to perform packet suppression for the second  
5 transmission. (*Id.* at col. 1:46-48). In other words, the quality of a prior data packet cannot be  
6 used to predict the quality of successive data packets. (*Id.* at col. 1:42-46, col. 4:7-10). This  
7 problem frustrates users and has been a longstanding challenge to the developers of cordless  
8 communication devices. (*Id.* at col. 48-51). The inventors therefore sought ways to improve  
9 voice quality in cordless communications that used frequency hopping schemes.

11           17.     The following is an exemplary implementation of the claimed invention. To  
12 improve the voice quality over each communication link, the base station can select a frequency  
13 in which to establish a link between the base station and a mobile unit. (*Id.* at col. 4:11-15). The  
14 base station monitors the quality of the frequency used on the link. (*Id.* at col. 4:15-16). The  
15 quality of the frequency can be determined by measuring parameters that indicate that signal  
16 bursts or parts of signal bursts are lost or corrupted over the communication link, or the strength  
17 of the signal over the communication link. (*Id.* at col. 4:16-20). If the quality of the frequency is  
18 unacceptable, the frequency may be marked as bad such that the next time the marked frequency  
19 is used in the frequency hopping scheme, the base station corrects the error. (*Id.* at col. 4:20-27).  
20 For example, the base station may mute the data or communicate to the mobile unit that it should  
21 use the prior data packet. (*Id.* at col. 4:27-29). Because the base station evaluates on a  
22 frequency-by-frequency basis, each mobile unit may actively communication with the base  
23 station on the same or individual frequencies that minimize the loss of voice information over  
24 individual links associated with each unit. (*Id.* at col. 4:36-41). For example, if a mobile  
25 communication system defines twelve different subsets for groups channels within the frequency  
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1 band, the system can select the current best ten out of the twelve available subsets to  
2 communicate and block the remaining two subsets because those subsets represent poor quality  
3 for that communication link. (*Id.* at col. 6:17-24).

4 18. The claimed invention has a technical advantage over the prior art through its  
5 ability to automatically monitor the quality of the frequency used on an individual  
6 communications link so that the base station may then perform data correction on the frequency  
7 in response to monitored quality of the frequency. (*Id.* at col. 2:14-19). This scheme to improve  
8 voice quality can be used with any algorithm to prevent interference with multiple base stations  
9 in a system. (*Id.* at col. 4:42-44). Furthermore, this scheme can also avoid selecting frequencies  
10 yielding poor quality for individual communication links. (*Id.* at col. 4:50-52).

11 19. During the prosecution history of the '207 patent, applicant discussed the  
12 unconventional features of the claimed invention that distinguished the invention from the prior  
13 art. A distinguishing claim limitation discussed was "selecting another frequency after the first  
14 time period to transmit and receive data over the communication link; after selecting the another  
15 frequency, selecting, during a second time period, the frequency that was monitored during the  
16 first time period; and performing, during the second time period, error correction on the selected  
17 frequency in response to the monitored quality monitored during the first time period," and  
18 similar limitations. (Ex. B at 8-9). The prior art did not disclose being able to "select and  
19 monitor a first frequency, select a second frequency, then select the first frequency again, and  
20 then perform error correction for the first frequency in response to the monitoring of the first  
21 frequency prior to a selection of the second frequency." (*Id.* at 8). Rather the prior art disclosed  
22 using coder and decoder for detection and correction of errors and carrying out judgement and  
23 correction of errors in data as the signal is received. (*Id.* at 8-9).

1           20.     The '207 patent was cited during the prosecution history of patents and patent  
2 applications owned by companies including Sprint Communications Company L.P., Cisco  
3 Technology, Inc. AT&T Intellectual Property I, L.P., RF Micro Devices, Inc. Qualcomm  
4 Incorporated, and Samsung Electronics Co. (See <http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&p=1&u=%2Fmetahtml%2FPTO%2Fsearch-bool.html&r=3&f=G&l=50&co1=AND&d=PTXT&s1=6,651,207&OS=6,651,207&RS=6,651,207>;  
5 <https://patents.google.com/patent/US6651207B1/en?q=6%2c651%2c207>).

9           21.     **Direct Infringement.** Upon information and belief, Defendant has been directly  
10 infringing at least claim 11 of the '207 patent in California and within this District, and  
11 elsewhere in the United States, by performing actions comprising at least using or performing the  
12 claimed method for improving voice quality in cordless communications by using the VMC  
13 3021 (“Accused Instrumentality”).

15           22.     Upon information and belief, the Accused Instrumentality performs the step of  
16 selecting a unique carrier frequency over an individual communication link, the communication  
17 link operable to carry data between at least one mobile unit and a base station. For example, the  
18 Accused Instrumentalities implement Bluetooth 4.0 (or later version). (E.g.,  
19 [http://www.nexcom.com/Products/mobile-computing-solutions/vehicle-mount-computer/port-  
20 management/vehicle-mount-computer-vmc-3021](http://www.nexcom.com/Products/mobile-computing-solutions/vehicle-mount-computer/port-management/vehicle-mount-computer-vmc-3021);  
21 [http://www.nexcom.com/mcs\\_product\\_list/vehicle\\_mount\\_computer\\_product\\_list.html](http://www.nexcom.com/mcs_product_list/vehicle_mount_computer_product_list.html)). Using  
22 Bluetooth 4.0 (or later version) selects a unique carrier frequency (e.g., a frequency that is  
23 determined by adaptive frequency hopping (AFH) pattern) over an individual communication  
24 link (Bluetooth link), the communication link (e.g., Bluetooth link) operable to carry data  
25 between at least one mobile unit (e.g., slaves, such as a Bluetooth device) and a base station (e.g.,  
26 master, such as a computer, laptop, tablet, or mobile phone). (E.g.,  
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1 [http://download.ni.com/evaluation/rf/intro\\_to\\_bluetooth\\_test.pdf](http://download.ni.com/evaluation/rf/intro_to_bluetooth_test.pdf);

2 [https://www.bluetooth.org/docman/handlers/downloaddoc.ashx?doc\\_id=456433](https://www.bluetooth.org/docman/handlers/downloaddoc.ashx?doc_id=456433) at 17, 234).

3 23. Upon information and belief, the Accused Instrumentality performs the step of  
4 monitoring the quality of the selected frequency during a first time period. For example, using  
5 Bluetooth 4.0 (or later version) monitors the quality of the selected frequency during a first time  
6 period for example by assessing whether a channel should be classified as bad because an  
7 interference-level measure associated with it has exceeded a threshold. (*E.g.*, [https://cdn.rohde-](https://cdn.rohde-schwarz.com/pws/dl_downloads/dl_application/application_notes/1c108/1C108_0e_Bluetooth_BR_EDR_AFH.pdf)  
8 [schwarz.com/pws/dl\\_downloads/dl\\_application/application\\_notes/1c108/1C108\\_0e\\_Bluetooth](https://cdn.rohde-schwarz.com/pws/dl_downloads/dl_application/application_notes/1c108/1C108_0e_Bluetooth_BR_EDR_AFH.pdf)  
9 [BR\\_EDR\\_AFH.pdf](https://cdn.rohde-schwarz.com/pws/dl_downloads/dl_application/application_notes/1c108/1C108_0e_Bluetooth_BR_EDR_AFH.pdf);

10 [https://www.bluetooth.org/docman/handlers/downloaddoc.ashx?doc\\_id=456433](https://www.bluetooth.org/docman/handlers/downloaddoc.ashx?doc_id=456433)  
11 [https://www.bluetooth.org/docman/handlers/downloaddoc.ashx?doc\\_id=456433](https://www.bluetooth.org/docman/handlers/downloaddoc.ashx?doc_id=456433) at 178).

12 24. Upon information and belief, the Accused Instrumentality performs the step of  
13 selecting another frequency after the first time period to transmit and receive data over the  
14 communication link. For example, with Bluetooth 4.0 (or later version), the physical channel is  
15 sub-divided into time units known as slots. (*E.g.*,  
16 [https://www.bluetooth.org/docman/handlers/downloaddoc.ashx?doc\\_id=456433](https://www.bluetooth.org/docman/handlers/downloaddoc.ashx?doc_id=456433) at 19, 25). Data  
17 is transmitted/received between Bluetooth devices in packets that are positioned in these slots.  
18 (*Id.*). Frequency hopping takes place between the transmission or reception of packets. (*Id.*).

19 25. Upon information and belief, the Accused Instrumentality performs the step of  
20 after selecting the another frequency, selecting, during a second time period, the frequency that  
21 was monitored during the first time period. For example, Bluetooth 4.0 (or later version) after  
22 selecting another frequency (*e.g.*, frequency hopping) selects at a second time period the  
23 frequency that was monitored during the first time period (*e.g.*, the system returns to monitor the  
24 first frequency again to determine whether the first frequency is still bad). (*E.g.*,  
25 <https://cdn.rohde->  
26 <https://cdn.rohde->  
27 <https://cdn.rohde->  
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1 [schwarz.com/pws/dl\\_downloads/dl\\_application/application\\_notes/1c108/1C108\\_0e Bluetooth](https://www.schwarz.com/pws/dl_downloads/dl_application/application_notes/1c108/1C108_0e_Bluetooth)  
2 [BR\\_EDR\\_AFH.pdf](https://www.schwarz.com/pws/dl_downloads/dl_application/application_notes/1c108/1C108_0e_Bluetooth);  
3 [https://www.bluetooth.org/docman/handlers/downloaddoc.ashx?doc\\_id=456433](https://www.bluetooth.org/docman/handlers/downloaddoc.ashx?doc_id=456433) at 66).

4           26. Upon information and belief, the Accused Instrumentality performs the step of  
5 performing, during the second time period, error correction on the selected frequency in response  
6 to the monitored quality monitored during the first time period. For example, Bluetooth 4.0 (or  
7 later version) performs the step of performing, during the second time period, error correction  
8 (e.g., marking the frequency as bad, suppresses any data packets that are to be next transmitted  
9 utilizing the bad frequency, and/or retransmitting the data packet) on the selected frequency in  
10 response to the monitored quality monitored during the first time period. (E.g.,  
11 [https://cdn.rohde-](https://cdn.rohde-schwarz.com/pws/dl_downloads/dl_application/application_notes/1c108/1C108_0e_Bluetooth)  
12 [schwarz.com/pws/dl\\_downloads/dl\\_application/application\\_notes/1c108/1C108\\_0e Bluetooth](https://cdn.rohde-schwarz.com/pws/dl_downloads/dl_application/application_notes/1c108/1C108_0e_Bluetooth)  
13 [BR\\_EDR\\_AFH.pdf](https://cdn.rohde-schwarz.com/pws/dl_downloads/dl_application/application_notes/1c108/1C108_0e_Bluetooth);  
14 [https://www.bluetooth.org/docman/handlers/downloaddoc.ashx?doc\\_id=456433](https://www.bluetooth.org/docman/handlers/downloaddoc.ashx?doc_id=456433) at 43, 66, 178;  
15 [http://download.ni.com/evaluation/rf/intro\\_to\\_bluetooth\\_test.pdf](http://download.ni.com/evaluation/rf/intro_to_bluetooth_test.pdf)).

16           27. Plaintiff has been damaged as a result of Defendant's infringing conduct.  
17 Defendant is thus liable to Plaintiff for damages in an amount that adequately compensates  
18 Plaintiff for such Defendant's infringement of the '207 patent, *i.e.*, in an amount that by law  
19 cannot be less than would constitute a reasonable royalty for the use of the patented technology,  
20 together with interest and costs as fixed by this Court under 35 U.S.C. § 284.

21           28. On information and belief, Defendant has had at least constructive notice of the  
22 '207 patent by operation of law and marking requirements have been complied with.

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27 **IV. COUNT II**  
**(PATENT INFRINGEMENT OF UNITED STATES PATENT NO. 7,106,705)**

28           29. Plaintiff incorporates the above paragraphs herein by reference.

1           30.     On September 12, 2006, United States Patent No. 7,106,705 (“the ‘705 Patent”)  
2 was duly and legally issued by the United States Patent and Trademark Office. The ‘705 Patent  
3 is titled “Method and Communication System for Transmitting Data for a Combination of  
4 Several Services via Jointly Used Physical Channels.” A true and correct copy of the ‘705 Patent  
5 is attached hereto as Exhibit C and incorporated herein by reference.  
6

7           31.     Sonohm is the assignee of all right, title and interest in the ‘705 patent, including  
8 all rights to enforce and prosecute actions for infringement and to collect damages for all  
9 relevant times against infringers of the ‘705 Patent. Accordingly, Sonohm possesses the  
10 exclusive right and standing to prosecute the present action for infringement of the ‘705 Patent  
11 by Defendant.

12           32.     The U.S. application leading to the ‘705 patent was filed May 21, 2001 based on a  
13 PCT filed date of November 24, 1999. (Ex. C at cover).  
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15           33.     The invention in the ‘705 Patent relates to the field of communication for  
16 transmitting data for a combination of a plurality of services via jointly used physical  
17 connections. (Id. at col. 1:8-11).

18           34.     A communication system provides one or more physical transmission channels  
19 for transmitting data between a data source and a data sink. (Id. at col. 1:15-16). Transmission  
20 channels may be a wide variety of types including cable-conducted using electrical or optical  
21 signal, or radio transmission via a radio interface using electromagnetic waves. (Id. at col. 1:17-  
22 20).  
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24           35.     Radio transmission is used in mobile radio systems in order to set up a connection  
25 to a nonstationary subscriber, such as a mobile station. (Id. at col. 1:24-24). A mobile station,  
26 for example, can be a mobile phone, a laptop computer, or a Bluetooth device. Within coverage  
27 of the network, the mobile stations can request a connection from any desired location, or a  
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1 connection can be set up to the mobile station. (*Id.* at col. 1:25-28). The most common mobile  
2 radio system at the time of the patent application was GSM, which was developed for a single  
3 service (voice transmission). (*Id.* at col. 1:28-31).

4           36. In contrast, at the time the application was filed, Europe was standardizing  
5 another mobile radio generation, UMTS, which could provide a plurality of services. (*Id.* at col.  
6 1:35-40). Such a standardization had documentation that typically provide an overview of how a  
7 transmission protocol can support the transport of data for a plurality of services. (*Id.* at col.  
8 1:41-48). The use of a physical channel for transmitting data for a plurality of services  
9 presupposes that a unique mapping specification indicates the allocation of the services to  
10 different segments of the physical channel. (*Id.* at col. 1:49-52). For example, a physical  
11 channel could be defined as a frequency band, a spread code, and a time slot within a frame. (*Id.*  
12 at col. 1:52-55). In order to be able to select the currently used combinations of the transport  
13 formats for the various services in line with requirements, the TFC1 needs to be able to be  
14 changed and therefore the TFCI2 needs to be signaled regularly. (*Id.* at col. 2:15-18). However,  
15 this signaling ties up transmission capacity. (*Id.* at col. 2:18-19). The greater the number of  
16 possible combination options, the more capacity is required for signaling. (*Id.* at col. 2:19-21).

17           37. Recognizing this problem, the inventors developed a method and communication  
18 system that reduces the required signaling capacity without limiting the number of combination  
19 options and the selection thereof. (*Id.* at col. 2:25-28). The invention draws a distinction  
20 between services with high and low data rate dynamics and uses a matched type of signaling for  
21 the transport format currently being used. (*Id.* at col. 2:33-35). No joint signaling for all  
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26 <sup>1</sup> TCF is the Transport Format Combination which indicates a possible combination of the  
27 transport formats for the various services which are mapped onto a common physical channel.  
(*Id.* at col. 2:1-4).

28 <sup>2</sup> TCFO is Transport Format Combination Identifier which indicates the currently used  
combination of the transport formats within the TFCs. (*Id.* at col. 2:9-11).

1 services takes place, but instead signaling can be individualized. (*Id.* at col. 2:41-45). For  
2 services with high data rate dynamics, in-band signaling of the transport format is carried out,  
3 and for services with low data rate dynamics, the transport format is signaled in a separate  
4 channel. (*Id.* at col. 2:45-48). In-band signaling supports the high dynamics of the data rate  
5 change in many services by signaling newly chosen transport formats at an appropriate speed,  
6 whereas somewhat slower signaling accompanying the connection is chosen for services with  
7 data rates which change only slowly or to a limited extent. (*Id.* at col. 2:48-54).

9 38. On the basis of stipulating a combination of the currently used transport formats  
10 for the services and the signaling thereof, the data for the services are transmitted via the  
11 currently available common physical channels on the basis of the combination of the transport  
12 formats and, at the reception end, are evaluated on the basis of the signaled combination of the  
13 transport formats. (*Id.* at col. 2:55-61). With the same number of combination options, less  
14 capacity is required for in-band signaling, since only a portion of the services need to be served  
15 constantly. (*Id.* at col. 2:62-64).

17 39. The prosecution history of the '705 patent further explains the unconventional  
18 features of the claimed invention. The prior art did not disclose transmitting data for first and  
19 second services in a first channel, signaling one or more first transport formats for the first  
20 services in-band in the first channel, and signaling a second transport format for the second  
21 service in a second, separate channel. (Ex. D at 9-10). One reference only disclosed transmitting  
22 at different data for a single service without disclosing transmission of first and second services  
23 having different data rate dynamics. (*Id.* at 10). Another prior art reference only disclosed  
24 transmitting data over a channel that is separate from the signaling information. (*Id.*). However,  
25 in the claimed invention, a combination of data for first and second services is transmitted over  
26 one channel, signaling information for the first services (having a high data rate dynamics) is  
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1 also transmitted over the first channel, and signaling information for the second service (having  
2 lower data rate dynamics) is transmitted in a second, separate channel. (*Id.* at 11). The claimed  
3 method was therefore not the conventional operation disclosed in the prior art. The claims were  
4 then allowed.

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6 40. **Direct Infringement.** Upon information and belief, Defendant has been directly  
7 infringing at least claim 1 of the '705 patent in California and within this District, and elsewhere  
8 in the United States, by performing actions comprising using or performing the claimed method  
9 by using the VMC 3021 ("Accused Instrumentality").

10 41. Upon information and belief, the Accused Instrumentality performs the step of  
11 specifying one or more first transport formats for first services and a second transport format for  
12 a second service, the first services having higher data rate dynamics than the second service. For  
13 example, the Accused Instrumentalities implements Bluetooth 4.0 (or later version). (*E.g.*,  
14 [http://www.nexcom.com/Products/mobile-computing-solutions/vehicle-mount-computer/port-](http://www.nexcom.com/Products/mobile-computing-solutions/vehicle-mount-computer/port-management/vehicle-mount-computer-vmc-3021)  
15 [management/vehicle-mount-computer-vmc-3021](http://www.nexcom.com/Products/mobile-computing-solutions/vehicle-mount-computer/port-management/vehicle-mount-computer-vmc-3021);  
16 [http://www.nexcom.com/mcs\\_product\\_list/vehicle\\_mount\\_computer\\_product\\_list.html](http://www.nexcom.com/mcs_product_list/vehicle_mount_computer_product_list.html)).

17 Bluetooth 4.0 (or later version) specifies one or more first transport formats (*e.g.*, air bit rate,  
18 modulation schemes, etc.) for first services (*e.g.*, Basic Rate/Enhanced Data Rate ("BR/EDR")  
19 services like audio streaming to wireless speakers and/or headphones) and a second transport  
20 format (*e.g.*, symbol rate, modulation format etc.) for a second service (*e.g.*, Low Energy ("LE")  
21 services like sensors working on LE), the BR/EDR service having higher data rate dynamics than  
22 the LE service. (*E.g.*,  
23 [https://www.bluetooth.org/docman/handlers/downloaddoc.ashx?doc\\_id=456433](https://www.bluetooth.org/docman/handlers/downloaddoc.ashx?doc_id=456433) at 17, 18, 20,  
24 80).

1           42.     Upon information and belief, the Accused Instrumentality performs the step of  
2 transmitting a combination of data for the first services and data for the second service over a  
3 first channel based on the first and second transport formats. For example, using Bluetooth 4.0  
4 (or later version) transmits a combination of data for the first services (*e.g.*, BR/EDR audio  
5 streaming data) and data for the second service (*e.g.*, Low Energy services like sensors  
6 transmitting on LE) over a first channel based on the first and second transport formats. (*E.g.*,  
7 [https://www.bluetooth.org/docman/handlers/downloaddoc.ashx?doc\\_id=456433](https://www.bluetooth.org/docman/handlers/downloaddoc.ashx?doc_id=456433) at 49, 54).

9           43.     Upon information and belief, the Accused Instrumentality performs the step of  
10 signaling, in-band in the first channel, the one or more first transport formats for the first  
11 services. For example, using Bluetooth 4.0 (or later version) sets up channels where the  
12 signaling of a transport format, like error connection codes or QoS (Quality of Service)  
13 parameters, is shared on the same channel as data communication. (*E.g.*,  
14 [https://www.bluetooth.org/docman/handlers/downloaddoc.ashx?doc\\_id=456433](https://www.bluetooth.org/docman/handlers/downloaddoc.ashx?doc_id=456433) at 41, 42).

16           44.     Upon information and belief, the Accused Instrumentality performs the step of  
17 signaling, in a second channel, the second transport format for the second service, the first  
18 channel and the second channel comprising separate channels. For example, using Bluetooth 4.0  
19 (or later version), LE mode is restricted to a communication format where the signaling  
20 information is established on a separate channel (*e.g.*, additional links), and not on the data  
21 communication channel. Furthermore, physical links between the connected devices are used to  
22 transport the logical links. Upon information and belief, the additional links created for signaling  
23 in a LE service, signals the information regarding the second service having lower rate dynamics  
24 (*e.g.*, an LE service) on a separate channel which is different from the first link/channel (*e.g.*, the  
25 channel over which the data communication is taking place and which carries the signaling  
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1 information regarding BR/EDR services). (E.g.,  
2 [https://www.bluetooth.org/docman/handlers/downloaddoc.ashx?doc\\_id=456433](https://www.bluetooth.org/docman/handlers/downloaddoc.ashx?doc_id=456433) at 19, 42, 83).

3 45. Plaintiff has been damaged as a result of Defendant's infringing conduct.  
4 Defendant is thus liable to Plaintiff for damages in an amount that adequately compensates  
5 Plaintiff for such Defendant's infringement of the '705 patent, *i.e.*, in an amount that by law  
6 cannot be less than would constitute a reasonable royalty for the use of the patented technology,  
7 together with interest and costs as fixed by this Court under 35 U.S.C. § 284.

9 46. On information and belief, Defendant will continue its infringement of one or  
10 more claims of the '705 patent unless enjoined by the Court. Each and all of the Defendant's  
11 infringing conduct thus causes Plaintiff irreparable harm and will continue to cause such harm  
12 without the issuance of an injunction.

13  
14 **IV. JURY DEMAND**

15 Plaintiff, under Rule 38 of the Federal Rules of Civil Procedure, requests a trial by jury of  
16 any issues so triable by right.

17 **V. PRAYER FOR RELIEF**

18 WHEREFORE, Plaintiff respectfully requests that the Court find in its favor and against  
19 Defendant, and that the Court grant Plaintiff the following relief:

- 20
- 21 a. Judgment that one or more claims of United States Patent No. 6,651,207 have  
22 been infringed, either literally and/or under the doctrine of equivalents, by  
23 Defendant;
  - 24 b. Judgment that one or more claims of United States Patent No. 7,106,705 have  
25 been infringed, either literally and/or under the doctrine of equivalents, by  
26 Defendant;
  - 27 c. Judgment that Defendant account for and pay to Plaintiff all damages to and costs  
28 incurred by Plaintiff because of Defendant's infringing activities and other  
conduct complained of herein;

- 1           d.       That Plaintiff be granted pre-judgment and post-judgment interest on the damages  
2                   caused by Defendant's infringing activities and other conduct complained of  
                  herein; and
- 3           e.       That Plaintiff be granted such other and further relief as the Court may deem just  
4                   and proper under the circumstances.

5  
6       March 30, 2020

/s/Steven W. Ritcheson

Steven W. Ritcheson, Esq.

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**JURY DEMAND**

1  
2 Plaintiff, under Rule 38 of the Federal Rules of Civil Procedure, requests a trial by jury of  
3 any issues so triable by right.  
4

5  
6 March 30, 2020

/s/Steven W. Ritcheson

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