

**IN THE UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF TEXAS
SHERMAN DIVISION**

X-MOBILE TECHNOLOGIES LLC,

Plaintiff,

v.

LENOVO GROUP, LTD.,

Defendant.

CIVIL ACTION NO. 4:17-cv-700

FIRST AMENDED COMPLAINT FOR
PATENT INFRINGEMENT

JURY TRIAL DEMANDED

FIRST AMENDED COMPLAINT FOR PATENT INFRINGEMENT

Plaintiff X-Mobile Technologies LLC (“X-Mobile”) files this first amended complaint against Lenovo Group, Ltd. (“Defendant” or “Lenovo”), alleging, based on its own knowledge as to itself and its own actions and based on information and belief as to all other matters, as follows:

PARTIES

1. X-Mobile is a limited liability company formed under the laws of the State of Texas.
2. Defendant Lenovo Group, Ltd. is a company incorporated under the laws of the People’s Republic of China and having a principal place of business at No. 6 Chuang Ye Road, Haidian District, Beijing, China 100085. Lenovo Group may be served under the Hague Convention.

JURISDICTION AND VENUE

3. This is an action for infringement of United States patents arising under 35 U.S.C. §§ 271, 281, and 284–85, among others. This Court has subject matter jurisdiction of the action under 28 U.S.C. §1331 and §1338(a).

4. Venue is proper in this district pursuant to 28 U.S.C. § 1400(b). Defendant has transacted business in this district and has committed, by itself or in concert with others, acts of patent infringement in this district. Lenovo Group, Ltd. is a foreign company and thus may be sued in this district.

5. Defendant is subject to this Court's specific and general personal jurisdiction pursuant to due process and/or the Texas Long Arm Statute, due at least to Defendant's substantial business in this forum, including: (i) at least a portion of the infringements alleged herein; and/or (ii) regularly doing or soliciting business, engaging in other persistent courses of conduct, and/or deriving substantial revenue from goods and services provided to individuals in Texas and in this district.

COUNT I

DIRECT INFRINGEMENT OF U.S. PATENT NO. 7,162,426

6. On January 9, 2007, United States Patent No. 7,162,426 ("the '426 Patent") was duly and legally issued by the United States Patent and Trademark Office for an invention entitled "Computer Motherboard Architecture with Integrated DSP for Continuous and Command and Control Speech Processing."

7. X-Mobile is the owner of the '426 Patent, with all substantive rights in and to that patent, including the sole and exclusive right to prosecute this action and enforce the '426 Patent against infringers, and to collect damages for all relevant times.

8. Defendant made, had made, used, imported, provided, supplied, distributed, sold, and/or offered for sale products and/or systems including, for example, its Moto Z phone family of products that have a Snapdragon 820 system on a chip with a DSP for Okay Google functionality (the "accused products"):



(Source: <https://www.motorola.com/us/products/moto-z>)

9. By doing so, Defendant has directly infringed (literally and/or under the doctrine of equivalents) at least Claims 1 and 20 of the '426 Patent. Defendant's infringement in this regard is ongoing.

10. Lenovo has infringed the '426 Patent by making, having made, using, importing, providing, supplying, distributing, selling or offering for sale products with a computer motherboard architecture.

11. The accused products include a computer motherboard possessing typical components including a CPU, a data bus, a power interface, and an audio input data pathway connecting the audio input of the motherboard to the CPU.

12. The accused products include a DSP chip in the audio input data path, wherein the DSP chip is co-located with the CPU on the motherboard:

system architecture/processor

Motorola Mobile Computing System, including Qualcomm® Snapdragon™ 820 processor with 1.8 GHz Quad-core CPU and Adreno 530 GPU Natural Language Processor Contextual Computing Processor

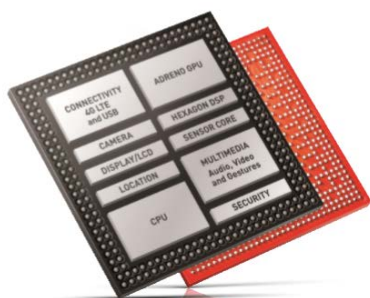
memory (RAM)

4GB LPDDR4⁵

storage (ROM)

64GB UFS,⁵ microSD Card support (up to 2TB)⁶

(Source: <https://www.motorola.com/us/products/moto-z>)



Snapdragon 820 processors. Enabling a more connected, immersive and intelligent all day experience.

FEATURES & SPECIFICATIONS³

CPU	Modem	Camera
<ul style="list-style-type: none"> + Custom 64-bit Kryo quad-core CPU up to 2.2GHz + 14nm FinFET process technology 	<ul style="list-style-type: none"> + Integrated X12 LTE modem, supporting Cat 12 download speeds up to 600 Mbps, Cat 13 upload speeds up to 150 Mbps 	<ul style="list-style-type: none"> + Dual ISPs can support up to 28MP@30fps and 1.2GP/sec throughput
<p>GPU</p> <ul style="list-style-type: none"> + Adreno 530 GPU: OpenGL ES 3.1 + AEP¹, OpenCL2.0 Full¹, Vulkan¹, Renderscript, 64-bit virtual addressing DirectX 11.2, plus hardware tessellation, geometry shaders, programmable blending and decreased power consumption² 	<ul style="list-style-type: none"> + Snapdragon All Mode with support for LTE FDD and TDD, WCDMA (DB-DC-HSDPA, DC-HSUPA), TD-SCDMA, CDMA 1x/EVDO, and GSM/Edge + Support for 256-QAM DL, 64-QAM UL, and 4x4 MIMO + Support for Ultra HD Voice with the Enhanced Voice Services (EVS) codec + Smart Wi-Fi calling with real-time Wi-Fi quality monitoring + Support for Qualcomm® TruSignal™ 	<p>Charging</p> <ul style="list-style-type: none"> + Quick Charge 3.0 <p>Security</p> <ul style="list-style-type: none"> + Qualcomm® SecureMSM™ foundation + Qualcomm® Snapdragon™ Smart Protect + Qualcomm® Snapdragon Sense™ ID fingerprint technology + Qualcomm® Snapdragon StudioAccess™ content protection
<p>DSP</p> <ul style="list-style-type: none"> + Hexagon 680 DSP with Hexagon Vector eXtensions and Low Power Island for sensor processing 		<p>Multimedia</p>

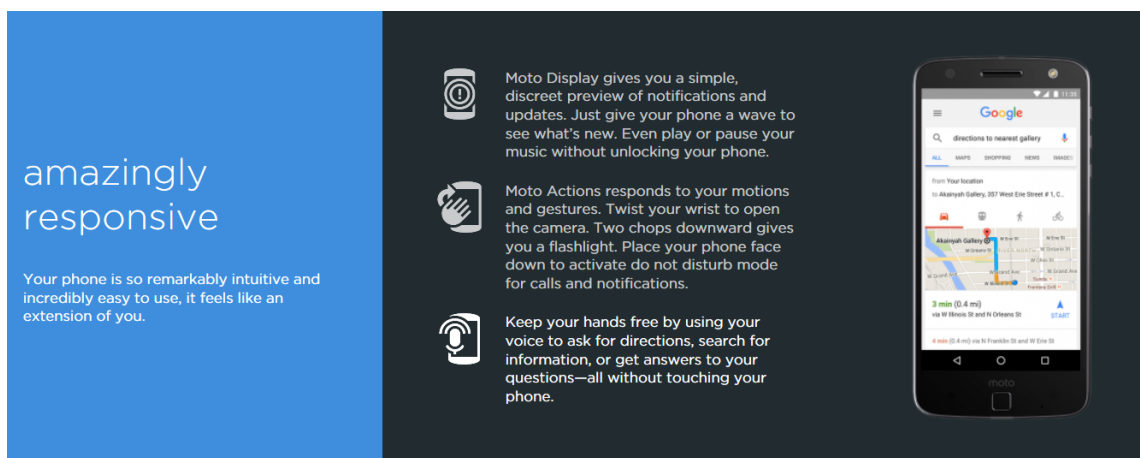
(Source : from 820 Processor Product Brief downloaded at

<https://www.qualcomm.com/documents/snapdragon-820-processor-product-brief>)

13. The accused products include a bridge interfacing between said DSP chip and the bus on the computer motherboard.

14. The accused products include a memory in said DSP chip.

15. The accused products include a command and control speech engine (for example, Okay Google) residing in said memory of said DSP chip:



(Source: <https://www.motorola.com/us/products/moto-z#moto-enhancements>)

16. The accused products include a DSP enabled to operate in either command and control mode or continuous speech mode and that serves as the preprocessor of all speech input prior to execution of instructions by the CPU to process the speech input.

17. The accused products include a speech engine that includes a vocabulary of speech terms enabled to be loaded into said memory which are associated with specific instructions or contextual environments.

18. The accused products include a DSP enabled to be dynamically set by a user in either a continuous speech mode or a command and control mode.

19. Lenovo has also infringed the '426 Patent by making, having made, using, importing, providing, supplying, distributing, selling or offering for sale products using a method of processing speech.

20. The method practiced by the accused products includes setting a computer in either command and control mode or continuous speech mode.

21. The method practiced by the accused products includes inputting speech into an audio input device wherein said audio input device is electrically connected to said computer.

22. The method practiced by the accused products includes converting speech from an analog format to an audio digital signal.

23. The method practiced by the accused products includes transmitting said digital signal to a digital signal processor, wherein said digital signal processor is co-located with a CPU on a motherboard of said computer:

system architecture/processor

Motorola Mobile Computing System,
including Qualcomm® Snapdragon™ 820
processor with 1.8 GHz Quad-core CPU and
Adreno 530 GPU Natural Language
Processor
Contextual Computing Processor

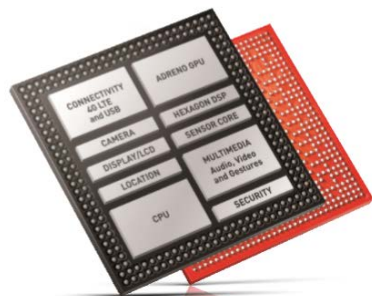
memory (RAM)

4GB LPDDR4⁵

storage (ROM)

64GB UFS,⁵ microSD Card support (up to
2TB)⁶

(Source: <https://www.motorola.com/us/products/moto-z>)



Snapdragon 820 processors. Enabling a more connected, immersive and intelligent all day experience.

FEATURES & SPECIFICATIONS³

<p>CPU</p> <ul style="list-style-type: none"> + Custom 64-bit Kryo quad-core CPU up to 2.2GHz + 14nm FinFET process technology <p>GPU</p> <ul style="list-style-type: none"> + Adreno 530 GPU: OpenGL ES 3.1 + AEP¹, OpenCL2.0 Full, Vulkan¹, Renderscript, 64-bit virtual addressing DirectX 11.2, plus hardware tessellation, geometry shaders, programmable blending and decreased power consumption² <p>DSP</p> <ul style="list-style-type: none"> + Hexagon 680 DSP with Hexagon Vector eXtensions and Low Power Island for sensor processing 	<p>Modem</p> <ul style="list-style-type: none"> + Integrated X12 LTE modem, supporting Cat 12 download speeds up to 600 Mbps, Cat 13 upload speeds up to 150 Mbps + Snapdragon All Mode with support for LTE FDD and TDD, WCDMA (DB-DC-HSDPA, DC-HSUPA), TD-SCDMA, CDMA 1x/EVDO, and GSM/Edge + Support for 256-QAM DL, 64-QAM UL, and 4x4 MIMO + Support for Ultra HD Voice with the Enhanced Voice Services (EVS) codec + Smart Wi-Fi calling with real-time Wi-Fi quality monitoring + Support for Qualcomm® TruSignal™ 	<p>Camera</p> <ul style="list-style-type: none"> + Dual ISPs can support up to 28MP@30fps and 1.2GP/sec throughput <p>Charging</p> <ul style="list-style-type: none"> + Quick Charge 3.0 <p>Security</p> <ul style="list-style-type: none"> + Qualcomm® SecureMSM™ foundation + Qualcomm® Snapdragon™ Smart Protect + Qualcomm® Snapdragon Sense™ ID fingerprint technology + Qualcomm® Snapdragon StudioAccess™ content protection <p>Multimedia</p>
--	---	---

(Source : from 820 Processor Product Brief downloaded at

<https://www.qualcomm.com/documents/snapdragon-820-processor-product-brief>)

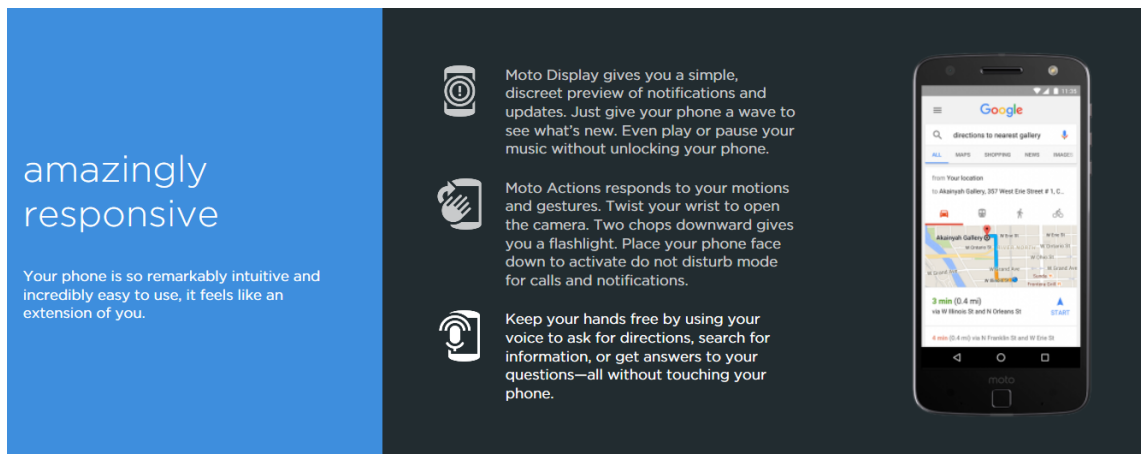
24. The method practiced by the accused products includes said digital signal processor is enabled to function as a preprocessor of all speech input, analyzing said digital signal with at least said digital signal processor and a speech engine residing in a memory of said digital signal processor on said motherboard and electrically connected to said digital signal processor.

25. The method practiced by the accused products includes loading an appropriate vocabulary into said speech engine in said or of said digital signal processor, depending on the context of the operation being performed by a user.

26. The method practiced by the accused products includes transmitting said analyzed digital signal of a computer command to a processor in electrical connection to said digital signal

processor and said computer and transmitting said analyzed digital signal of continuous speech to a processor in electrical connection to said digital signal processor and said computer.

27. The method practiced by the accused products includes performing an operation or command representative of said analyzed digital signal by said processor:



(Source: <https://www.motorola.com/us/products/moto-z#moto-enhancements>)

28. Lenovo has had knowledge of the '426 Patent at least as of the date when it was notified of the filing of this action.

29. X-Mobile has been damaged as a result of the infringing conduct by Defendant alleged above. Thus, Defendant is liable to X-Mobile in an amount that adequately compensates it for such infringements, which, by law, cannot be less than a reasonable royalty, together with interest and costs as fixed by this Court under 35 U.S.C. § 284.

30. X-Mobile and/or its predecessors-in-interest have satisfied all statutory obligations required to collect pre-filing damages for the full period allowed by law for infringement of the '426 Patent.

COUNT II

DIRECT INFRINGEMENT OF U.S. PATENT NO. 6,690,351

31. On February 10, 2004, United States Patent No. 6,690,351 (“the ‘351 Patent”) was duly and legally issued by the United States Patent and Trademark Office for an invention entitled “Computer Display Optimizer.”

32. X-Mobile is the owner of the ‘351 Patent, with all substantive rights in and to that patent, including the sole and exclusive right to prosecute this action and enforce the ‘351 Patent against infringers, and to collect damages for all relevant times.

33. Defendant made, had made, used, imported, provided, supplied, distributed, sold, and/or offered for sale products and/or systems including its Moto smartphone, Lenovo Miix 2-in-1, and Moto 360 smartwatch families of products (the “accused products”):



(Source: <https://www.motorola.com/us/products/moto-e-gen-4>)



(Source : http://www3.lenovo.com/us/en/tablets/windows-tablets/miix-series/Lenovo-Miix-720-12IKB/p/88IPMX70799?menu-id=Miix_720)



(Source : <http://www.motorola.com/us/products/moto-360>)

34. By doing so, Defendant has directly infringed (literally and/or under the doctrine of equivalents) at least Claim 1 of the '351 Patent. Defendant's infringement in this regard is ongoing.

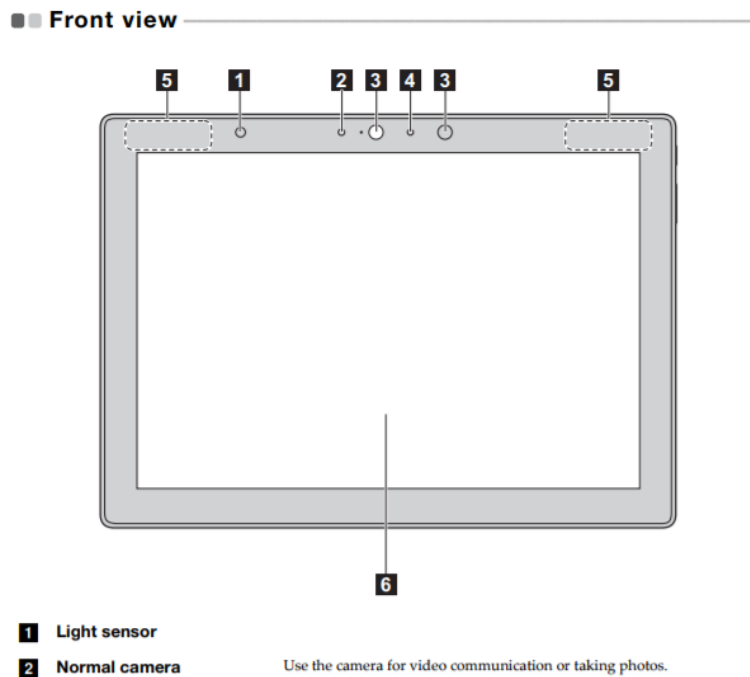
35. Defendant has infringed the '351 Patent by making, having made, using, importing, providing, supplying, distributing, selling or offering for sale hands free user or operator supported mobile computer systems having hands free, activating means, a processor and a display means, with the processor in electrical connection to the display means.

36. The accused products include at least one sensor for optimizing internal settings in said display when said sensor and said display are in communication:

sensors

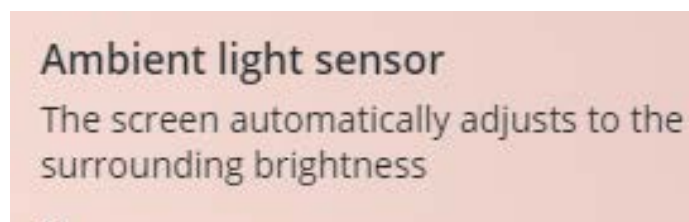
- Vibration
- Proximity
- Light
- Accelerometer
- Magnetometer (e-compass)
- Fingerprint reader (in some models)**

(Source: <https://www.motorola.com/us/products/moto-e-gen-4>)



(Source : from user guide downloaded at

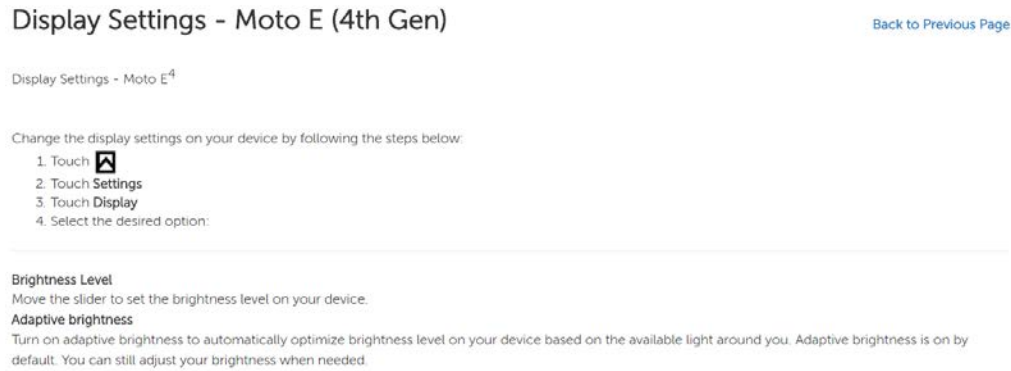
<https://pcsupport.lenovo.com/us/en/products/tablets/miix-series/miix-720-121kb/documentation>)



(Source : <http://www.motorola.com/us/products/moto-360#effortless-updates>)

37. The accused products include means in the computer to receive information from the sensor and to transmit it to a data processing means.

38. The accused products include means to translate the data into computer commands to effect control and alteration of the computer system to coincide with any changes resulting from input of the sensor:



(Source: <https://mobilesupport.lenovo.com/us/en/Solution/MS120246>)

Work Smarter with Windows 10

Enjoy the best of what Windows 10 has to offer: from fast start-ups, to the expanded Start menu and all-new browser, to Cortana and Windows Ink—your very own digital personal assistant. Forget about forgetting. You can set Cortana reminders right from your Sticky Notes so your reminders go with you wherever you go.

Auto brightness feature (via Windows 10 display settings)

(Source for Windows 10 in Miix : http://www3.lenovo.com/us/en/tablets/windows-tablets/miix-series/Lenovo-MIIX-720-12IKB/p/88IPMX70799?menu-id=MiiX_720_)



(Source : <http://www.motorola.com/us/products/moto-360#effortless-updates>)

39. The accused products include that the sensor is enabled to at least measure conditions and optimize internal settings based upon environmental conditions and the type of the display means and reflectivity characteristics of a physical glass and coatings of the display means.

40. Defendant has had knowledge of the '351 Patent at least as of July 6, 2004, when it was cited by the examiner in an office action during the prosecution of U.S. Patent No. 7,117,019, titled "Display and Keypad Backlight Management for Portable Electronic Devices," which was initially assigned to Motorola, Inc., to Motorola Mobility, Inc., and then to Motorola Mobility LLC before being assigned to Google Technology Holdings in November 2014. In that office action, the Examiner included the '351 Patent as pertinent to the applicant's disclosure, stating that the '351 Patent "disclose[s] portable electronic devices detecting ambient light conditions and illuminating the device accordingly." Motorola employee Aamir Ali Abbassi, who is listed as inventor on U.S. Patent No. 7,117,019, and others involved in the prosecution of that patent including at least Hisashi D. Watanabe of the Intellectual Property Section, Law Department of Motorola, Inc. and Shigeharu Furukawa of the Intellectual Property Department of Motorola, Inc. have had knowledge of the '351 Patent at least as of July 6, 2004.

41. X-Mobile has been damaged as a result of the infringing conduct by Defendant alleged above. Thus, Defendant is liable to X-Mobile in an amount that adequately compensates it for such infringements, which, by law, cannot be less than a reasonable royalty, together with interest and costs as fixed by this Court under 35 U.S.C. § 284.

42. X-Mobile and/or its predecessors-in-interest have satisfied all statutory obligations required to collect pre-filing damages for the full period allowed by law for infringement of the '351 Patent.

COUNT III

DIRECT INFRINGEMENT OF U.S. PATENT NO. 6,262,889

43. On July 17, 2001, United States Patent No. 6,262,889 (“the ‘889 Patent”) was duly and legally issued by the United States Patent and Trademark Office for an invention entitled “Insulated Mobile Computer.”

44. X-Mobile is the owner of the ‘889 Patent, with all substantive rights in and to that patent, including the sole and exclusive right to prosecute this action and enforce the ‘889 Patent against infringers, and to collect damages for all relevant times.

45. Defendant made, had made, used, imported, provided, supplied, distributed, sold, and/or offered for sale products and/or systems including its Moto E smartphone family of products (the “accused products”) :

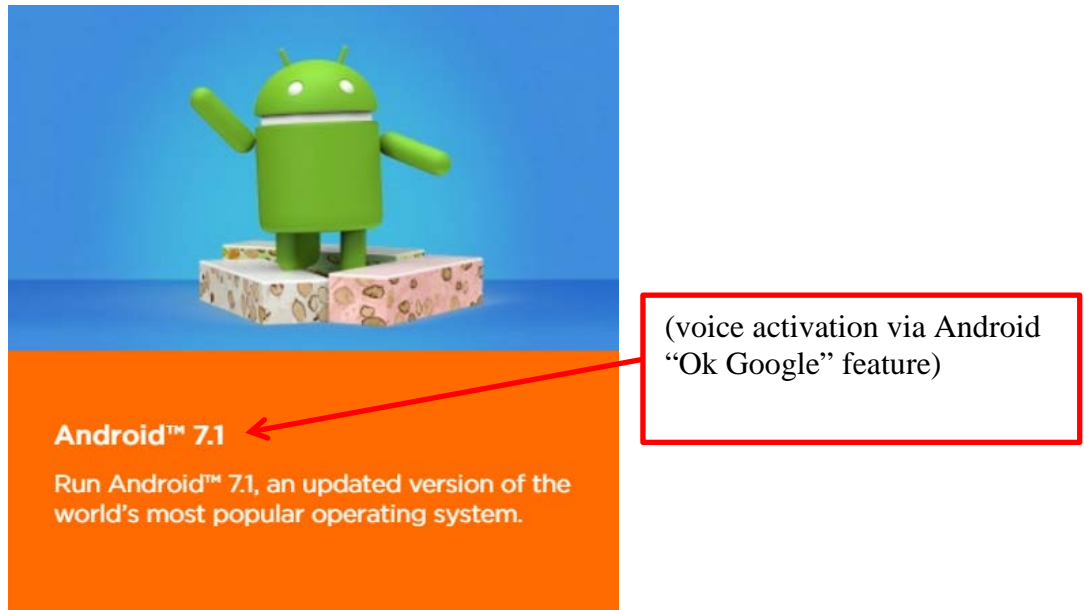


(Source: <https://www.motorola.com/us/products/moto-e-gen-4>)

46. By doing so, Defendant has directly infringed (literally and/or under the doctrine of equivalents) at least Claim 1 of the ‘889 Patent. Defendant’s infringement in this regard is ongoing.

47. Defendant has infringed the '889 Patent by making, having made, using, importing, providing, supplying, distributing, selling or offering for sale user supported, hands-free activation computer systems having a computer housing and a display means, the computer housing consisting of all of the components of a conventional computer and having located therein a battery to supply power to the system.

48. The accused products include hands-free activation:



(Source: <https://www.motorola.com/us/products/moto-e-gen-4#fast-performance>)

49. The accused products include the computer housing having a section that will be adjacent the user when in use and supported by the user.

50. The accused products include that the section is constructed of a heat insulating material and forming thereby an internal insulating wall.

51. The accused products include the battery comprising an insulating cover which is located in said housing immediately adjacent the internal insulating wall to provide thereby double insulation for any heat generated by the system within the computer housing at a location closest to the user when in use:



(Source: picture of purchased product)



(Source: picture of purchased product)



(Source : picture of purchased product)

52. Defendant has had knowledge of the ‘889 Patent at least as of the date when it was notified of the filing of this action.

53. X-Mobile has been damaged as a result of the infringing conduct by Defendant alleged above. Thus, Defendant is liable to X-Mobile in an amount that adequately compensates it for such infringements, which, by law, cannot be less than a reasonable royalty, together with interest and costs as fixed by this Court under 35 U.S.C. § 284.

54. X-Mobile and/or its predecessors-in-interest have satisfied all statutory obligations required to collect pre-filing damages for the full period allowed by law for infringement of the ‘889 Patent.

COUNT IV

DIRECT INFRINGEMENT OF U.S. PATENT NO. 6,958,905

55. On October 25, 2005, United States Patent No. 6,958,905 (“the ‘905 Patent”) was duly and legally issued by the United States Patent and Trademark Office for an invention entitled “Mobile Body-Supported Computer with Battery.”

56. X-Mobile is the owner of the ‘905 Patent, with all substantive rights in and to that patent, including the sole and exclusive right to prosecute this action and enforce the ‘905 Patent against infringers, and to collect damages for all relevant times.

57. Defendant made, had made, used, imported, provided, supplied, distributed, sold, and/or offered for sale products and/or systems including its Moto 360 smartwatch family of products (the “accused products”):



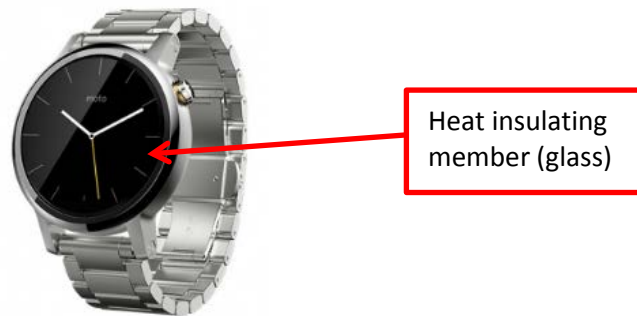
(Source : <http://www.motorola.com/us/products/moto-360>)

58. By doing so, Defendant has directly infringed (literally and/or under the doctrine of equivalents) at least Claim 14 of the ‘905 Patent. Defendant’s infringement in this regard is ongoing.

59. Defendant has infringed the ‘905 Patent by making, having made, using, importing, providing, supplying, distributing, selling or offering for sale mobile body supported computers.

60. The accused products include a computer housing including substantially all components of a conventional computer, with a first surface near a user's body, and a second surface located opposite to the first surface.

61. The accused products include a heat insulating member positioned on at least one of the first surface or the second surface:



(Source: <http://www.motorola.com/us/products/moto-360>)

62. The accused products include an integral battery with casing, the casing being partially constructed of a thermally non-conducting material:



(Source: <https://learn.adafruit.com/moto-360-smartwatch-teardown/inside-the-moto-360>)

63. The accused products include means for activating the computer hands-free:

Voice commands

Just say "Ok Google" to get the information you need. Answer questions like "what's my next appointment?" Grab a Lyft. Add a Todoist task. Or fire off a quick text message. All hands free.

(Source: <http://www.motorola.com/us/products/moto-360#effortless-updates>)

64. The accused products include means for supporting the computer housing by a user.

65. Defendant has had knowledge of the '905 Patent at least as of the date when it was notified of the filing of this action.

66. X-Mobile has been damaged as a result of the infringing conduct by Defendant alleged above. Thus, Defendant is liable to X-Mobile in an amount that adequately compensates it for such infringements, which, by law, cannot be less than a reasonable royalty, together with interest and costs as fixed by this Court under 35 U.S.C. § 284.

67. X-Mobile and/or its predecessors-in-interest have satisfied all statutory obligations required to collect pre-filing damages for the full period allowed by law for infringement of the '905 Patent.

ADDITIONAL ALLEGATIONS REGARDING INDIRECT INFRINGEMENT

68. Defendant has also indirectly infringed the '426, '351, '889, and '905 Patents by inducing others to directly infringe the '426, '351, '889, and '905 Patents. Defendant has induced the end-users, Defendant's customers, to directly infringe (literally and/or under the doctrine of equivalents) the '426, '351, '889, and '905 Patents by using the accused products. Defendant took active steps, directly and/or through contractual relationships with others, with the specific intent to cause them to use the accused products in a manner that infringes one or more claims of the patents-in-suit, including, for example, claim 20 of the '426 Patent, claim 1 of the '351

Patent, claim 1 of the '889 Patent, and claim 14 of the '905 Patent. Such steps by Defendant included, among other things, advising or directing customers and end-users to use the accused products in an infringing manner; advertising and promoting the use of the accused products in an infringing manner; and/or distributing instructions that guide users to use the accused products in an infringing manner. Defendant performed these steps, which constitute induced infringement, with the knowledge of the '426, '351, '889, and '905 Patents and with the knowledge that the induced acts would constitute infringement. Defendant was and is aware that the normal and customary use of the accused products by Defendant's customers would infringe the '426, '351, '889, and '905 Patents. Defendant's inducement is ongoing.

69. Defendant has also induced its affiliates, or third-party manufacturers, shippers, distributors, retailers, or other persons acting on its or its affiliates' behalf, to directly infringe (literally and/or under the doctrine of equivalents) the '426, '351, '889, and '905 Patents by importing, selling or offering to sell the accused products. Defendant took active steps, directly and/or through contractual relationships with others, with the specific intent to cause such persons to import, sell, or offer to sell the accused products in a manner that infringes one or more claims of the patents-in-suit, including, for example, claim 1 of the '426 Patent, claim 1 of the '351 Patent, claim 1 of the '889 Patent, and claim 14 of the '905 Patent. Such steps by Defendant included, among other things, making or selling the accused products outside of the United States for importation into or sale in the United States, or knowing that such importation or sale would occur; and directing, facilitating, or influencing its affiliates, or third-party manufacturers, shippers, distributors, retailers, or other persons acting on its or their behalf, to import, sell, or offer to sell the accused products in an infringing manner. Defendant performed these steps, which constitute induced infringement, with the knowledge of the '426, '351, '889,

and '905 Patents and with the knowledge that the induced acts would constitute infringement. Defendant performed such steps in order to profit from the eventual sale of the accused products in the United States. Defendant's inducement is ongoing.

70. Defendant has also indirectly infringed by contributing to the infringement of the '426, '351, '889, and '905 Patents. Defendant has contributed to the direct infringement of the '426, '351, '889, and '905 Patents by the end-user of the accused products. The accused products have special features that are specially designed to be used in an infringing way and that have no substantial uses other than ones that infringe the '426, '351, '889, and '905 Patents, including, for example, claim 20 of the '426 Patent, claim 1 of the '351 Patent, claim 1 of the '889 Patent, and claim 14 of the '905 Patent. The special features include a DSP with a command and control speech engine used in a manner that infringes the '426 Patent. The special features also include automatic brightness settings to be used in a manner that infringes the '351 Patent. The special features also include voice activation features used in a manner that infringes the '889 Patent and in a manner that infringes the '905 Patent. The special features constitute a material part of the invention of one or more of the claims of the '426, '351, '889, and '905 Patents and are not staple articles of commerce suitable for substantial non-infringing use. Defendant's contributory infringement is ongoing.

71. Defendant also has knowledge of the '426, '351, '889, and '905 Patents at least as of the date when it was notified of the filing of this action. In addition, as noted above, Defendant has also had knowledge of the '351 Patent as of July 6, 2004.

72. Defendant's direct and indirect infringement of the '426, '351, '889, and '905 Patents is, has been, and continues to be willful, intentional, deliberate, and/or in conscious disregard of X-Mobile's rights under the patent.

73. X-Mobile has been damaged as a result of the infringing conduct by defendant alleged above. Thus, Defendant is liable to X-Mobile in an amount that adequately compensates it for such infringements, which, by law, cannot be less than a reasonable royalty, together with interest and costs as fixed by this Court under 35 U.S.C. § 284.

JURY DEMAND

X-Mobile hereby requests a trial by jury on all issues so triable by right.

PRAYER FOR RELIEF

X-Mobile requests that the Court find in its favor and against Defendant, and that the Court grant X-Mobile the following relief:

- a. Judgment that one or more claims of the '426, '351, '889, & '905 Patents have been infringed, either literally and/or under the doctrine of equivalents, by Defendant and/or all others acting in concert therewith;
- b. A permanent injunction enjoining Defendant and its officers, directors, agents, servants, affiliates, employees, divisions, branches, subsidiaries, parents, and all others acting in concert therewith from infringement of the '426, '351, '889, & '905 Patents; or, in the alternative, an award of a reasonable ongoing royalty for future infringement of the '426, '351, 889 & '905 Patents by such entities;
- c. Judgment that Defendant accounts for and pays to X-Mobile all damages to and costs incurred by X-Mobile because of Defendant's infringing activities and other conduct complained of herein;
- d. That X-Mobile be granted pre-judgment and post-judgment interest on the damages caused by Defendant's infringing activities and other conduct complained of herein;
- e. That this Court declare this an exceptional case and award X-Mobile its

reasonable attorney's fees and costs in accordance with 35 U.S.C. § 285; and

f. That X-Mobile be granted such other and further relief as the Court may deem just and proper under the circumstances.

Dated: October 31, 2017

Respectfully submitted,

/s/ Zachariah S. Harrington

Matthew J. Antonelli

Texas Bar No. 24068432

matt@ahtlawfirm.com

Zachariah S. Harrington

Texas Bar No. 24057886

zac@ahtlawfirm.com

Larry D. Thompson, Jr.

Texas Bar No. 24051428

larry@ahtlawfirm.com

Christopher Ryan Pinckney

Texas Bar No. 24067819

ryan@ahtlawfirm.com

Michael D. Ellis

Texas Bar No. 24081586

michael@ahtlawfirm.com

ANTONELLI, HARRINGTON

& THOMPSON LLP

4306 Yoakum Blvd., Ste. 450

Houston, TX 77006

(713) 581-3000

Attorneys for X-Mobile LLC

CERTIFICATE OF SERVICE

I hereby certify that on the 31st day of October 2017, I electronically filed the foregoing with the Clerk of the Court using the CM/ECF system, which will send notification of such filing to all counsel of record.

/s/ Zachariah S. Harrington
Zachariah S. Harrington