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17 *Attorneys for Plaintiff,*
18 THROOP, LLC

19 **UNITED STATES DISTRICT COURT**
20 **CENTRAL DISTRICT OF CALIFORNIA**
21 **WESTERN DIVISION**

22 THROOP, LLC, a California limited
23 liability company,

24 Plaintiff,

25 v.

26 MICROSOFT CORPORATION, a
27 Washington corporation,

28 Defendant.

Case No. 2:19-cv-10604-AB-MRW
Hon. Andre Birotte Jr.

**FIRST AMENDED COMPLAINT
FOR PATENT INFRINGEMENT**

DEMAND FOR JURY TRIAL

1 Plaintiff Throop, LLC (“Throop” or “Plaintiff”) hereby alleges for its
2 Complaint for Patent Infringement against Microsoft Corporation (“Microsoft” or
3 “Defendant”) the following:

4 **I. NATURE OF THE ACTION**

5 1. This is an action for patent infringement of United States Patent Nos.
6 7,035,897 (the “’897 Patent”) and 9,479,726 (the “’726 Patent”) (collectively, the
7 “Patents-in-Suit”) arising under the Patent Laws of the United States, 35 U.S.C. § 1,
8 et seq., seeking damages and other relief under 35 U.S.C. § 281, et seq.

9 **II. THE PARTIES**

10 2. Throop is a California limited liability company having a principal
11 place of business at 3580 Wilshire Blvd., Ste. 1460, Los Angeles, CA 90010.

12 3. Defendant Microsoft Corporation is a corporation organized under the
13 laws of Washington with its principal place of business located at One Microsoft
14 Way, Redmond, WA 98052. Microsoft’s registered agent for Service of Process is
15 located at Corporation Service Company, d/b/a CSC – Lawyering Incorporating
16 Service, 2710 Gateway Oaks Drive, Suite 150N, Sacramento, CA 95833.

17 **III. JURISDICTION AND VENUE**

18 4. This is an action for patent infringement arising under the provisions of
19 the Patent Laws of the United States of America, Title 35, United States Code.

20 5. This Court has subject matter jurisdiction over Throop’s claims under
21 28 U.S.C. §§ 1331 and 1338(a).

22 6. This Court has personal jurisdiction over Defendant in this action
23 because Defendant has committed acts within the Central District of California
24 giving rise to this action and has established minimum contacts with this forum such
25 that the exercise of jurisdiction over the Defendant would not offend traditional
26 notions of fair play and substantial justice. The Defendant, directly and through
27 subsidiaries or intermediaries, has committed and continues to commit acts of
28

1 infringement in this District by, among other things, offering to sell and selling
2 products and/or services that infringe the asserted patents.

3 7. Venue is proper in this judicial district pursuant to 28 U.S.C. § 1391(b),
4 (c) and/or 28 U.S.C. § 1400(b). Defendant transacts business within this District
5 and offers for sale in this District products that infringe the Patents-in-Suit.
6 Defendant is registered to do business in California. Defendant has a regular and
7 established place of business in Central District of California. For example,
8 Defendant has offices located at 13031 W Jefferson Blvd., #200, Los Angeles, CA
9 90094.

10 **IV. THROOP'S PATENTS-IN-SUIT**

11 8. On April 25, 2006, the '897 Patent, entitled "Wireless Augmented
12 Reality Communication System," was duly and legally issued by the United States
13 Patent and Trademark Office. A true and correct copy of the '897 Patent is attached
14 as Exhibit A.

15 9. On October 25, 2016, the '726 Patent, entitled "Wireless Augmented
16 Reality Communication System," was duly and legally issued by the United States
17 Patent and Trademark Office. A true and correct copy of the '726 Patent is attached
18 as Exhibit B.

19 10. The inventors listed on the Patents-in-Suit were all engineers who
20 worked at NASA's Jet Propulsion Laboratory. Founded by Caltech faculty, NASA's
21 Jet Propulsion Laboratory is the leading U.S. center for the robotic exploration of
22 the solar system.

23 11. The '897 Patent has been cited by twenty-four issued United States
24 patents as relevant prior art.

25 12. Throop is the owner of the Patents-in-Suit asserted in this action and
26 has the exclusive right to sue and collect remedies for past, present, and future
27 infringement of the Patents-in-Suit.

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V. ACCUSED PRODUCTS AND/OR SERVICES

13. Defendant manufactures, provides, uses, sells, offers for sale, imports, and/or distributes infringing services for wearable devices, including, for example, Microsoft HoloLens (collectively, “Accused Products and/or Services”).

14. The Accused Products and/or Services offer the benefits of Plaintiff’s technology by, for example, incorporating a highly integrated radio communication system allowing for true two-way multimedia access via a wearable device.

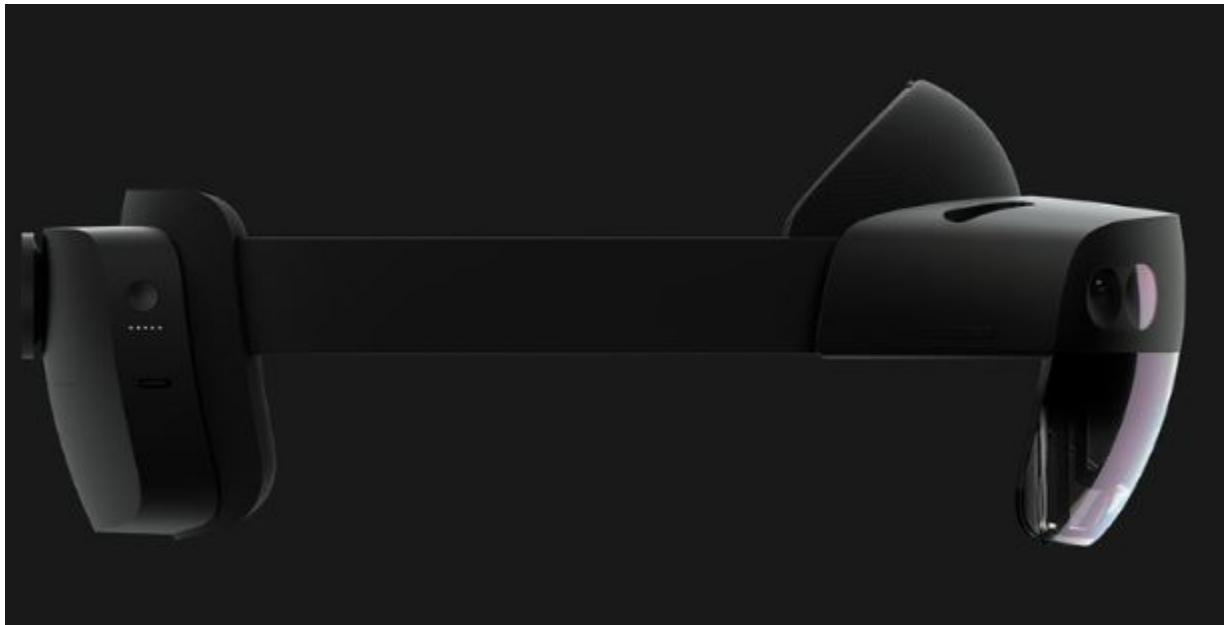
15. Defendant has had knowledge of the ’726 Patent and its infringement since at least the filing of the Original Complaint in this action, or shortly thereafter, including by way of this lawsuit. Defendant has had notice and/or knowledge of the ’897 Patent and its infringement since at least December 2010, or shortly thereafter, when Microsoft Corporation cited the ’897 Patent on an Information Disclosure Statement on its own patent application (Application No. 12/969,148) that led to issued U.S. Patent No. 8,898,310.

COUNT I: INFRINGEMENT OF U.S. PATENT NO. 7,035,897

16. Throop reasserts and incorporates herein by reference the allegations of all preceding paragraphs of this Complaint as if fully set forth herein.

17. Defendant has infringed and continue to infringe at least claim 1 and one or more of its dependents of the ’897 Patent under 35 U.S.C. § 271(a), literally or under the doctrine of equivalents, by making, using, selling, and/or offering for sale in the United States, and/or importing into the United States, the Accused Products and/or Services.

1 18. For example, the Accused Products and/or Services meet all of the
2 claim limitations of claim 1 of the '897 Patent, set forth below with claim language
3 in italics. To the extent the preamble is limiting, the Accused Products and/or
4 Services include *[a] mobile access unit for use in a localized communications*
5 *system.*



16 <https://www.microsoft.com/en-us/hololens#>

17 19. The Accused Products and/or Services include *a video input configured*
18 *to receive real-time video information; a video output configured to provide real-*
19 *time video information; a wearable display connected to the video output; a codec*
20 *connected to the video input and video output; and a transceiver.*

21
22 **A new vision for computing, built on a history**
23 **of innovation**

24
25 Mixed reality on HoloLens 2 combines an untethered device with apps and solutions that help people across
26 your business learn, communicate, and collaborate more effectively. It's the culmination of breakthroughs in
hardware design, artificial intelligence (AI), and mixed reality development from Microsoft, designed to help
you lead your industry into the future—starting today.

1 <https://www.microsoft.com/en-us/hololens#>

Display	
Optics	See-through holographic lenses (waveguides)
Resolution	2k 3:2 light engines
Holographic density	>2.5k radiants (light points per radian)
Eye-based rendering	Display optimization for 3D eye position

8 <https://www.microsoft.com/en-us/hololens/hardware>

9 20. The Accused Products and/or Services include *a transmitter connected*
10 *to the codec that is configured to transmit a data stream provided by the codec over*
11 *an upstream wireless communication link; and a receiver connected to the codec*
12 *that is configured to receive a data stream transmitted over a downstream wireless*
13 *communication link, which includes encoded real-time video.*

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The image shows three panels illustrating Microsoft Dynamics 365 applications. The first panel, 'Dynamics 365 Remote Assist', shows a woman wearing a HoloLens headset interacting with a virtual interface. The second panel, 'Dynamics 365 Guides', shows a man wearing a HoloLens headset interacting with a virtual car engine diagram. The third panel, 'Dynamics 365 Layout', shows two men in a virtual environment interacting with a 3D model of a store layout.

23 <https://www.microsoft.com/en-us/hololens/apps>

24 WiFi
25 802.11ac 2x2

26 Bluetooth
27 5.0

28 USB

1 USB Type-C

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9 <https://www.microsoft.com/en-us/hololens/hardware>

21. The Accused Products and/or Services include *wherein the codec is configured to: encode real-time video information received from the video input; and multiplex the encoded real-time video with other data to generate the data stream provided by the codec to the transmitter; and wherein the codec is also configured to: demultiplex the encoded real-time video from the data stream provided to the codec by the receiver; and decode the encoded real-time video information and provide the decoded real-time video information to the video output.*



Microsoft HoloLens: Skype

291,598 views • Feb 29, 2016

985 76 SHARE SAVE



Microsoft HoloLens ✓
116K subscribers

SUBSCRIBE

Educational, instructional, and social moments are more effective when you can show rather than tell. Skype for HoloLens lets your contacts see what you see, hear what you hear, and draw on their screens to place holograms over physical objects in your view. Get an idea of how holograms can help people communicate in new ways.

<https://www.youtube.com/watch?v=4QiGYtd3qNI>

22. Defendant has committed acts of infringement without license or authorization. Defendant knew or should have known that its actions would cause direct and indirect infringement of the '897 Patent. On information and belief, Defendant acted with objective recklessness by proceeding despite an objective high likelihood that its actions constituted infringement of a valid patent.

23. Defendant is also liable under 35 U.S.C. § 271(b) for actively inducing infringement and continuing to actively induce infringement. Defendant actively induces and continues to induce its customers, distributors, end-users, vendors

1 including customer-support and/or manufacturers to infringe the '897 Patent. On
2 information and belief, Defendant possessed a specific intent to induce
3 infringement, and in fact did induce infringement, by engaging in affirmative acts
4 such as by selling and causing the Accused Products and/or Services to be
5 manufactured, by providing user guides, installation or instruction manuals, and
6 other training materials, by advertising and solicitation and otherwise providing
7 sales-related materials, and by instructing and/or demonstrating to customers,
8 distributors, end-users, vendors including customer-support and/or manufacturers
9 the normal operation of the Accused Products and/or Services that infringe the '897
10 Patent. Defendant is aware and/or willfully blind that these affirmative acts infringe
11 and/or would induce infringement of the '897 Patent, of which it had knowledge.

12 24. Defendant is also liable under 35 U.S.C. § 271(c) for contributing to
13 and continuing to contribute to the infringement of the '897 Patent by, among other
14 things, providing seamless external storage capability that operates as internal
15 storage in its Accused Products and/or Services and by encouraging, at a minimum,
16 customers, distributors, end-users, vendors including customer-support and/or
17 manufacturers in this District and elsewhere, to infringe the '897 Patent. By
18 importing, exporting, manufacturing, distributing, selling, and/or providing the
19 Accused Products and/or Services for their intended use to customers, distributors,
20 end-users, vendors including customer-support and/or manufacturers, Defendant
21 has, in the past and continue to contribute to the infringement of one or more claims
22 of the '897 Patent. The Accused Products and/or Services are material to the
23 inventions claimed in the '897 Patent, has no substantial non-infringing uses, and
24 are known by Defendant (on information and belief) to be especially made or
25 especially adapted for use in infringing the '897 Patent, and which are otherwise not
26 staple articles of commerce suitable for substantial non-infringing use. Defendant
27 are aware and/or willfully blind that these affirmative acts infringe and/or constitute
28 contributory infringement of the '897 Patent, of which it had knowledge.

1 25. Defendant is liable for indirect infringement, i.e., both inducement and
2 contributory infringement, based on the direct infringement that is the result of
3 activities performed by customers, distributors, end-users, vendors including
4 customer-support and/or manufacturers who use all elements or perform all steps of
5 one or more claims of the '897 Patent. For example, end users of Defendant's
6 Accused Products and/or Services infringe, either directly or under the doctrine of
7 equivalents, one or more claims of the '897 Patent (e.g., claim 1 and one or more of
8 its dependents). At a minimum, Defendant is liable for the indirect infringement of
9 claim 1 and one or more of its dependents of the '897 Patent.

10 26. Plaintiff has been damaged as a result of Defendant's infringing
11 conduct. Defendant is, thus, liable to Plaintiff in an amount that adequately
12 compensates Plaintiff for Defendant's infringement, which, by law, cannot be less
13 than a reasonable royalty, together with interest and costs as fixed by this Court
14 under 35 U.S.C. § 284.

15 **COUNT II: INFRINGEMENT OF U.S. PATENT NO. 9,479,726**


16 27. Throop reasserts and incorporates herein by reference the allegations of
17 all preceding paragraphs of this Complaint as if fully set forth herein.

18 28. Defendant has infringed and continues to infringe at least claims 1, 25
19 and one or more of its dependents of the '726 Patent under 35 U.S.C. § 271(a),
20 literally or under the doctrine of equivalents, by making, using, selling, and/or
21 offering for sale in the United States, and/or importing into the United States, the
22 Accused Products and/or Services.

23 29. For example, the Accused Products and/or Services meet all of the
24 claim limitations of claim 1 of the '726 Patent, set forth below with claim language
25 in italics. To the extent the preamble is limiting, the Accused Products and/or
26 Services include *[a] communication system comprising*.

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1 30. The Accused Products and/or Services include *a portable access unit*
2 *comprising a wearable device, a touchpad and a transceiver.*



Ergonomic

Wear HoloLens 2 longer and more comfortably with a dial-in fit system designed for extended use. And keep your glasses on—the headset slides right over them. When it's time to switch tasks, flip the visor up to step out of mixed reality.

10 <https://www.microsoft.com/en-us/hololens/hardware>

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12 31. The Accused Products and/or Services include *the wearable device*
13 *comprising a transparent display.*

Display	
Optics	See-through holographic lenses (waveguides)
Resolution	2k 3:2 light engines
Holographic density	>2.5k radiants (light points per radian)
Eye-based rendering	Display optimization for 3D eye position

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19 <https://www.microsoft.com/en-us/hololens/hardware>

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1 32. The Accused Products and/or Services include *the touchpad connected*
2 *to the wearable device and configured to receive user commands.*

3 **Pair Bluetooth devices**

4
5 Pair a Bluetooth mouse and keyboard with HoloLens, then use them to interact
6 with holograms and to type anywhere you'd use the holographic keyboard.

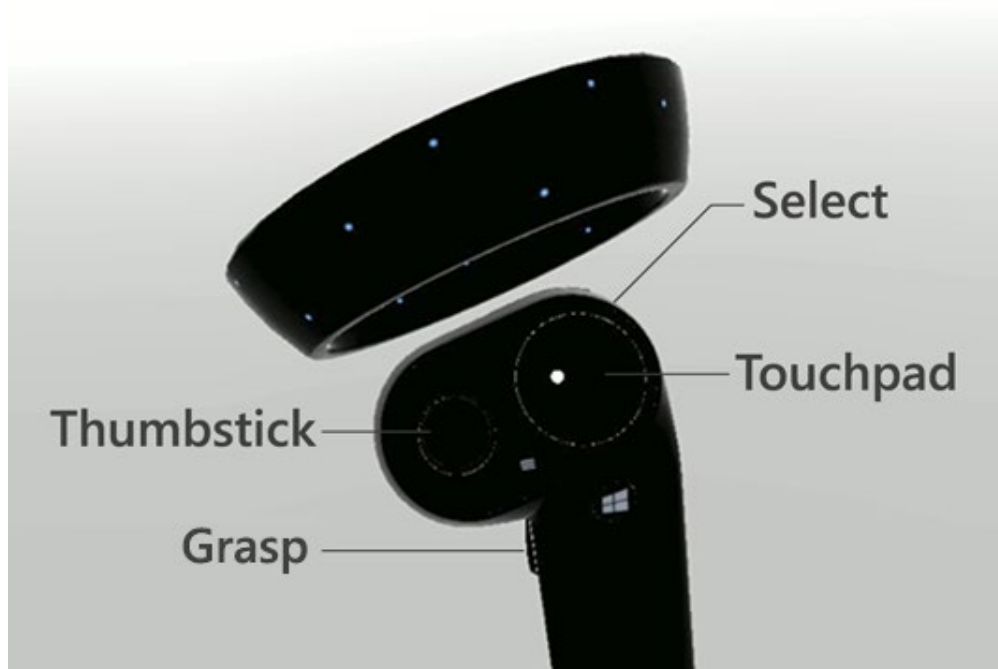
7 Classes of Bluetooth devices supported by HoloLens 2:

- 8
 - 9 • Mouse
 - 10 • Keyboard
 - 11 • Bluetooth audio output (A2DP) devices

12 Classes of Bluetooth devices supported by HoloLens (1st gen):

- 13
 - 14 • Mouse
 - 15 • Keyboard
 - 16 • HoloLens (1st gen) clicker

17 <https://docs.microsoft.com/en-us/hololens/hololens-connect-devices>



28 <https://docs.microsoft.com/en-us/windows/mixed-reality/mixed-reality-213>

1 33. The Accused Products and/or Services include *the transceiver capable*
2 *of wirelessly connecting to a general purpose node for establishing a data link with*
3 *one or more media devices connected to the general purpose node.*



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10 <https://www.microsoft.com/en-us/hololens/hardware>

11 34. The Accused Products and/or Services include *wherein subsequent to*
12 *connecting to the general purpose node, the portable access unit is configured to*
13 *display on the transparent display a list of one or more media devices that are*
14 *connected to the general purpose node.*

15 **Pair the clicker**

16 | Applies to HoloLens (1st gen) only.

- 17 1. Use the bloom gesture to go to **Start**, then select **Settings**.
- 18 2. Select **Devices** and make sure that Bluetooth is on.
- 19 3. Use the tip of a pen to press and hold the clicker's pairing button until the
20 status light blinks white. Make sure to hold the button down until the light
21 starts blinking. [Where's the pairing button?](#)
- 22 4. On the pairing screen, select **Clicker > Pair**.

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24
25 <https://docs.microsoft.com/en-us/hololens/hololens-connect-devices>

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1 35. The Accused Products and/or Services include *wherein the portable*
2 *access unit is configured to receive, at the touchpad, a first user command for*
3 *selecting a first media device from the list to establish a data link with the first*
4 *media device via the general purpose node.*

6 Connect to Miracast

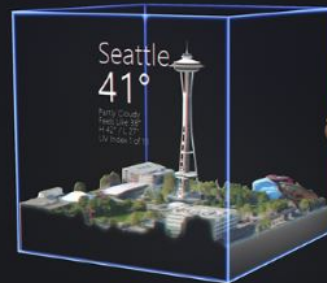
7 Use Miracast by opening the **Start** menu and selecting the display icon or saying
8 "Connect" while gazing at the **Start** menu. Choose an available device from the
9 list that appears and complete pairing to begin projection.

10 <https://docs.microsoft.com/en-us/hololens/hololens-connect-devices>

11 36. The Accused Products and/or Services include *wherein subsequent to*
12 *establishing the data link with the first media device, the portable access unit is*
13 *configured to display a multimedia content on the transparent display.*

15 Instinctual

16 Touch, grasp, and move holograms in
17 ways that feel natural—they respond a
18 lot like real objects. Log in to HoloLens 2
19 instantly and securely using just your
20 eyes with Windows Hello. And voice
21 commands work even in noisy industrial
22 environments through smart
23 microphones and natural language
24 speech processing.



21 <https://www.microsoft.com/en-us/hololens/hardware>

22 37. For example, the Accused Products and/or Services meet all of the
23 claim limitations of claim 25 of the '726 Patent, set forth below with claim language
24 in italics. To the extent the preamble is limiting, the Accused Products and/or
25 Services include *[a] method comprising.*

1 38. The Accused Products and/or Services include *providing a portable*
2 *access unit comprising a wearable device, a touchpad and a transceiver, the*
3 *wearable device comprising a transparent display.*



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12 <https://docs.microsoft.com/en-us/hololens/hololens1-hardware>

13 39. The Accused Products and/or Services include *wirelessly connecting,*
14 *by the transceiver, to a general purpose node for establishing a data link between*
15 *the portable access unit and one or more media devices connected to the general*
16 *purpose node.*

17 **Before you start**

18
19 Before you get started, make sure you have the following available:

20 **A Wi-Fi connection.** You'll need to connect your HoloLens to a Wi-Fi network to
21 set it up. The first time you connect, you'll need an open or password-protected
22 network that doesn't require navigating to a website or using certificates to
23 connect. [Learn more about the websites that HoloLens uses.](#)

24 <https://docs.microsoft.com/en-us/hololens/hololens1-start>

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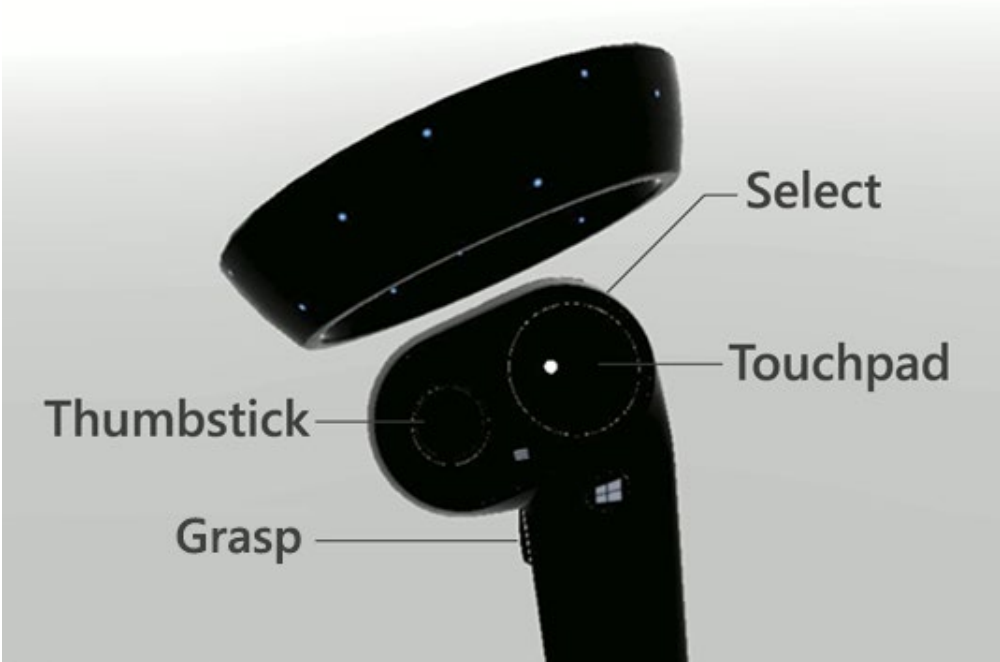
Bluetooth gamepads

You can use a controller with apps and games that specifically enable gamepad support. Gamepads cannot be used to control the HoloLens user interface.

Xbox Wireless Controllers that come with the Xbox One S or sold as accessories for the Xbox One S feature Bluetooth connectivity that enable them to be used with HoloLens and immersive headsets. The Xbox Wireless Controller must be updated before it can be used with HoloLens.

Other brands of Bluetooth gamepads may work with Windows Mixed Reality devices, but support will vary by application.

<https://docs.microsoft.com/en-us/windows/mixed-reality/hardware-accessories>



<https://docs.microsoft.com/en-us/windows/mixed-reality/mixed-reality-213>

1 42. The Accused Products and/or Services include *subsequent to*
2 *establishing the data link with the first media device, displaying a multimedia*
3 *content on the transparent display.*

4 **Viewing 3D models on HoloLens**

5 **Open an FBX file from Microsoft Edge**

6 FBX files can be opened directly from a website using Microsoft Edge on
7 HoloLens.

- 8 1. In Microsoft Edge, navigate to the webpage containing the FBX file you
9 want to view.
- 10 2. Select the file to download it.
- 11 3. When the download is complete, select the **Open** button in Microsoft Edge
12 to open the file in 3D Viewer Beta.

13 <https://docs.microsoft.com/en-us/hololens/holographic-3d-viewer-beta>

14 43. Defendant has committed acts of infringement without license or
15 authorization. Defendant knew or should have known that its actions would cause
16 direct and indirect infringement of the '726 Patent. On information and belief,
17 Defendant acted with objective recklessness by proceeding despite an objective high
18 likelihood that its actions constituted infringement of a valid patent.

19 44. Defendant is also liable under 35 U.S.C. § 271(b) for actively inducing
20 infringement and continuing to actively induce infringement. Defendant actively
21 induces and continues to induce its customers, distributors, end-users, vendors
22 including customer-support and/or manufacturers to infringe the '726 Patent. On
23 information and belief, Defendant possessed a specific intent to induce
24 infringement, and in fact did induce infringement, by engaging in affirmative acts
25 such as by selling and causing the Accused Products and/or Services to be
26 manufactured, by providing user guides, installation or instruction manuals, and
27 other training materials, by advertising and solicitation and otherwise providing
28

1 sales-related materials, and by instructing and/or demonstrating to customers,
2 distributors, end-users, vendors including customer-support and/or manufacturers
3 the normal operation of the Accused Products and/or Services that infringe the '897
4 Patent. Defendant is aware and/or willfully blind that these affirmative acts infringe
5 and/or would induce infringement of the '726 Patent, of which it had knowledge.

6 45. Defendant is also liable under 35 U.S.C. § 271(c) for contributing to
7 and continuing to contribute to the infringement of the '726 Patent by, among other
8 things, providing seamless external storage capability that operates as internal
9 storage in its Accused Products and/or Services and by encouraging, at a minimum,
10 customers, distributors, end-users, vendors including customer-support and/or
11 manufacturers in this District and elsewhere, to infringe the '726 Patent. By
12 importing, exporting, manufacturing, distributing, selling, and/or providing the
13 Accused Products and/or Services for their intended use to customers, distributors,
14 end-users, vendors including customer-support and/or manufacturers, Defendant
15 has, in the past and continue to contribute to the infringement of one or more claims
16 of the '726 Patent. The Accused Products and/or Services are material to the
17 inventions claimed in the '726 Patent, has no substantial non-infringing uses, and
18 are known by Defendant (on information and belief) to be especially made or
19 especially adapted for use in infringing the '726 Patent, and which are otherwise not
20 staple articles of commerce suitable for substantial non-infringing use. Defendant is
21 aware and/or willfully blind that these affirmative acts infringe and/or constitute
22 contributory infringement of the '726 Patent, of which it had knowledge.

23 46. Defendant is liable for indirect infringement, i.e., both inducement and
24 contributory infringement, based on the direct infringement that is the result of
25 activities performed by customers, distributors, end-users, vendors including
26 customer-support and/or manufacturers who use all elements or perform all steps of
27 one or more claims of the '726 Patent. For example, end users of Defendant's
28 Accused Products and/or Services infringe, either directly or under the doctrine of

1 equivalents, one or more claims of the '726 Patent (e.g., claims 1, 25 and one or
2 more of its dependents). At a minimum, Defendant is liable for the indirect
3 infringement of claims 1, 25 and one or more of its dependents of the '726 Patent.

4 47. Plaintiff has been damaged as a result of Defendant's infringing
5 conduct. Defendant is, thus, liable to Plaintiff in an amount that adequately
6 compensates Plaintiff for Defendant's infringement, which, by law, cannot be less
7 than a reasonable royalty, together with interest and costs as fixed by this Court
8 under 35 U.S.C. § 284.

9 **PRAYER FOR RELIEF**

10 WHEREFORE, Plaintiff respectfully requests the following relief:

- 11 a) A judgment that Defendant has infringed the Patents-in-Suit;
12 b) An award of damages adequate to compensate for Defendant's
13 infringement of the Patents-in-Suit, and in no event less than a reasonable royalty
14 for Defendant's acts of infringement, including all pre-judgment and post-judgment
15 interest at the maximum rate permitted by law;
16 c) A declaration that this case is exceptional under 35 U.S.C. § 285; and
17 d) An award of Plaintiff's costs and attorney's fees under 35 U.S.C. § 285
18 and other applicable law; and any other remedy to which Plaintiff may be entitled.

19
20 Dated: February 24, 2020

ONE LLP

21
22 By: /s/ Nathaniel L. Dilger
23 Nathaniel L. Dilger
24 John E. Lord

25 *Attorneys for Plaintiff,*
26 Throop, LLC
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DEMAND FOR JURY TRIAL

Throop demands trial by jury on all claims and issues so triable.

Dated: February 24, 2020

ONE LLP

By: /s/ Nathaniel L. Dilger
Nathaniel L. Dilger
John E. Lord

Attorneys for Plaintiff,
Throop, LLC