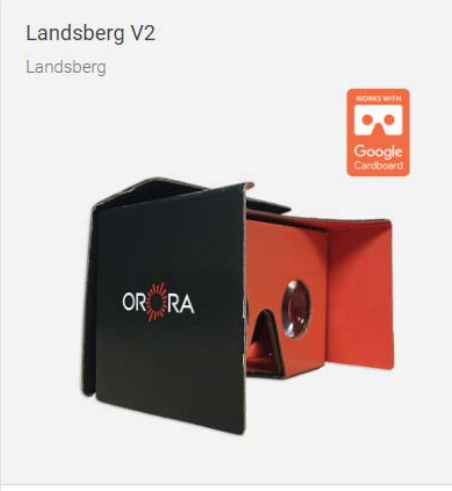


Exhibit 3 – Cardboard Viewer Accused Instrumentalities Claim Chart For United States Patent 10,528,199

Accused Products (“Cardboard Viewers”):

Google V2 Cardboard Virtual Reality Headset (aka GCV2)	Google Cardboard Google  A photograph of a Google Cardboard V2 headset, which is a simple, rectangular cardboard box with a black strap for the head. The word "Google" is printed on the bottom right corner of the front face. BUY  \$15.00 
Landsberg (aka Orora) V2 Cardboard Virtual Reality Viewer	Landsberg V2 Landsberg  A photograph of the Landsberg V2 Cardboard Virtual Reality Viewer. It is a black and red cardboard headset. The black part has the "ORORA" logo. The red part has a "WORKS WITH Google Cardboard" logo. The headset is shown from a side angle, revealing the internal lens and the opening for the eyes. BUY  \$5.00 

Pyrite (dba Maxbox) V2 Cardboard Virtual Reality Viewer



Structural Graphics (dba Red Paper Plane) V2 Cardboard Virtual Reality Viewer



Insignia (a Best Buy Brand) V2 Cardboard Virtual Reality Viewer



Case-Mate V2 Cardboard Virtual Reality Viewer



Goonex/QR Cardboard V2 Cardboard Virtual Reality Viewer



Hoonite Ltd V2 Cardboard Virtual Reality Viewer



I AM CARDBOARD V2 Cardboard Virtual Reality Viewer

V2

I AM CARDBOARD



BUY  \$7.99



Irusu V2 Cardboard Virtual Reality Viewer

Irusu V2

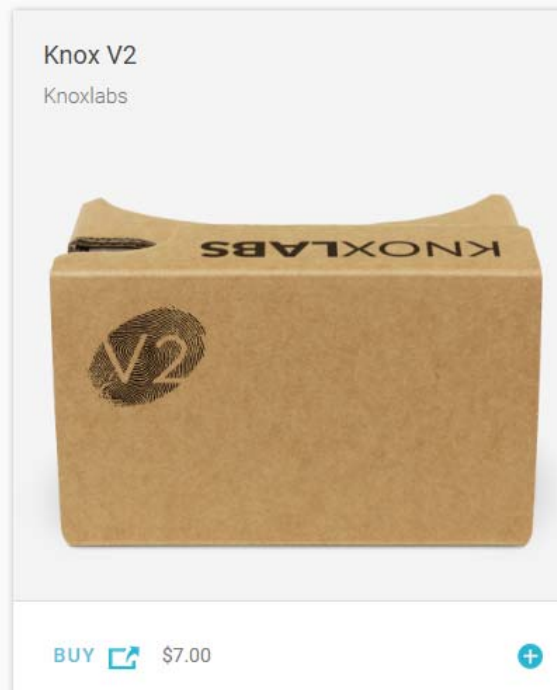
Irusu



BUY  \$5.71



Knoxlabs V2 Cardboard Virtual Reality Viewer



Unofficial Cardboard UC 2.0 Cardboard Virtual Reality Viewer



Vusion V3 Cardboard Virtual Reality Viewer

Vusion V3

Vusion



BUY  \$8.95



Wow Stuff! Immersiverse V2 Cardboard Virtual Reality Viewer



© & ™ Lucasfilm Ltd.

Yoheha Innovation Ltd. VR Yo! V2 Cardboard
Virtual Reality Viewer



Zaak Two V2 Cardboard Virtual Reality Viewer

ZAAK TWO
ZAAK



BUY  \$18.85



Asserted Claims (all Cardboard Viewers):

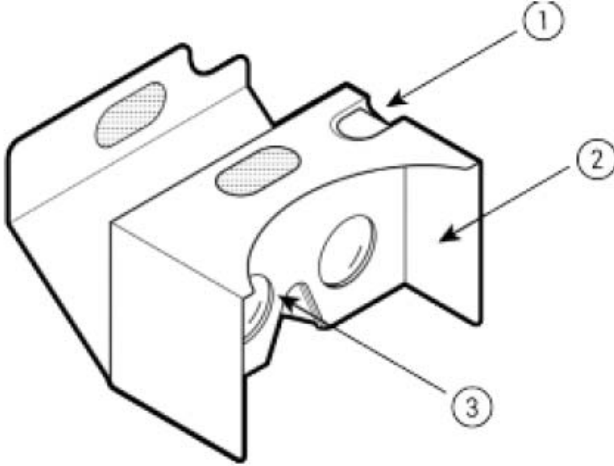
Claim 6 (depending from Claims 1, 2 and 5);

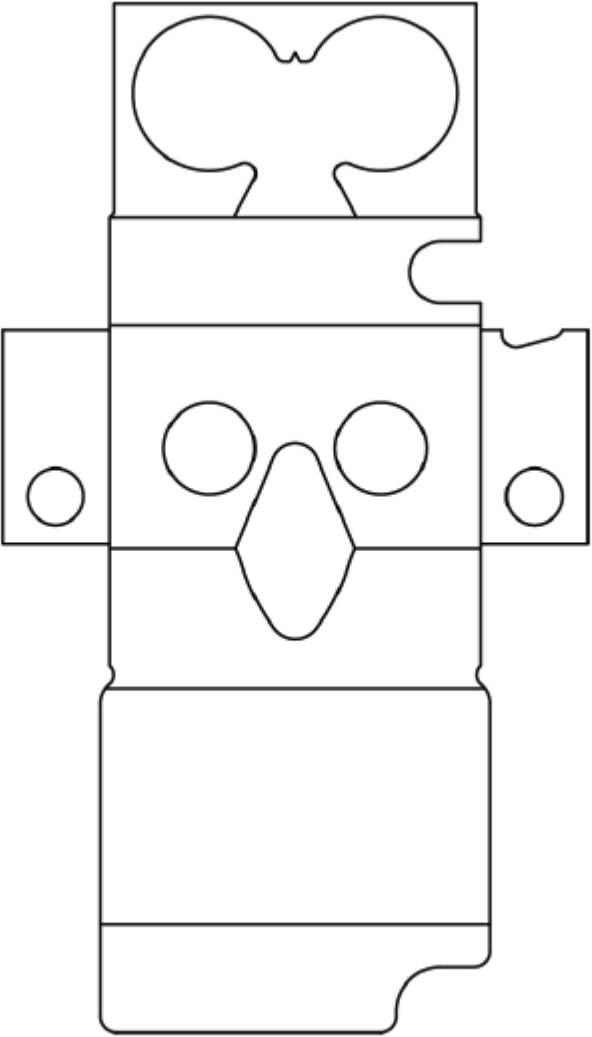
Claim 20 (depending from Claim 1);

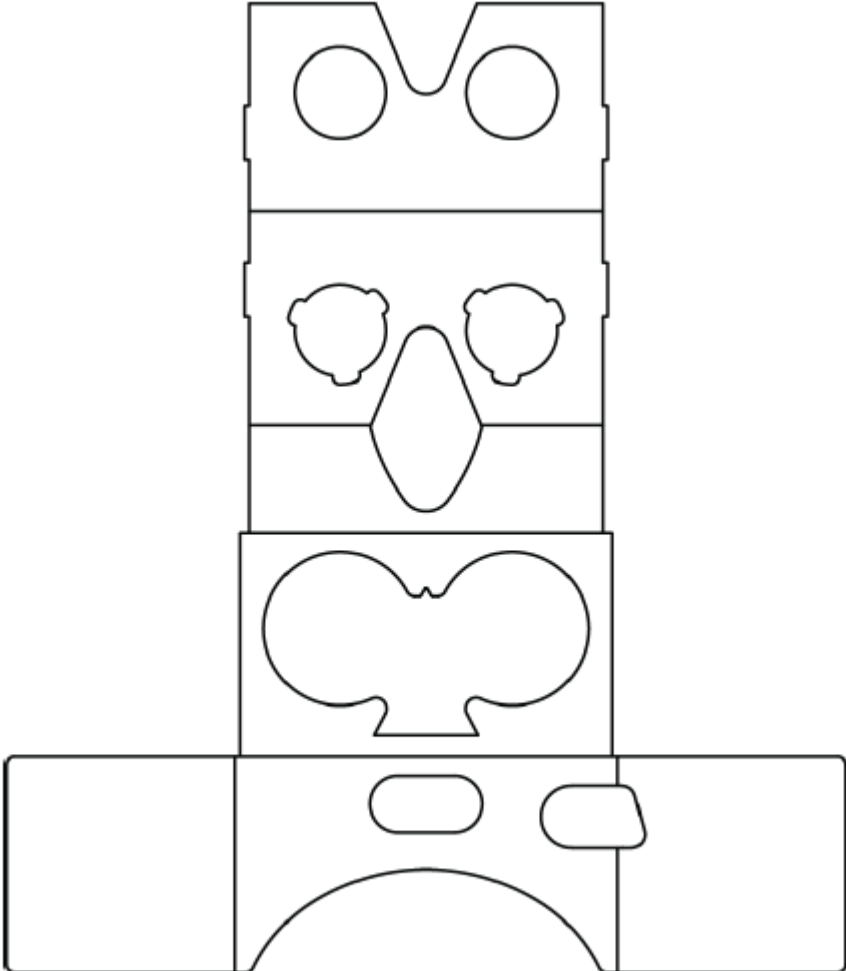
Claim 23 (depending from Claims 1 and 21); and

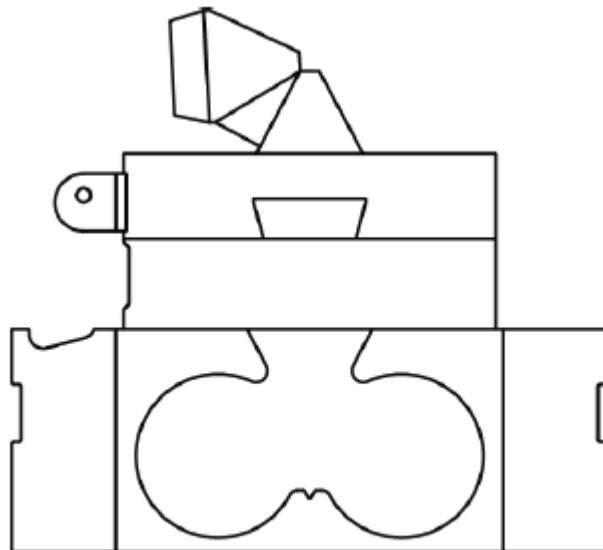
Claim 39 (depending from Claims 30 and 38).

U.S. Patent No. 10,528,199 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
A virtual reality viewer for use with a mobile electronic device having a touchscreen, the viewer comprising:	<i>The Cardboard Viewers are virtual reality viewers for use with a mobile electronic device having a touchscreen (e.g., “smartphone”).</i> See chart above. All charted Cardboard Viewers are identical (or substantially identical) for the purposes of the claim limitations.  GCV2 Physical Unit.

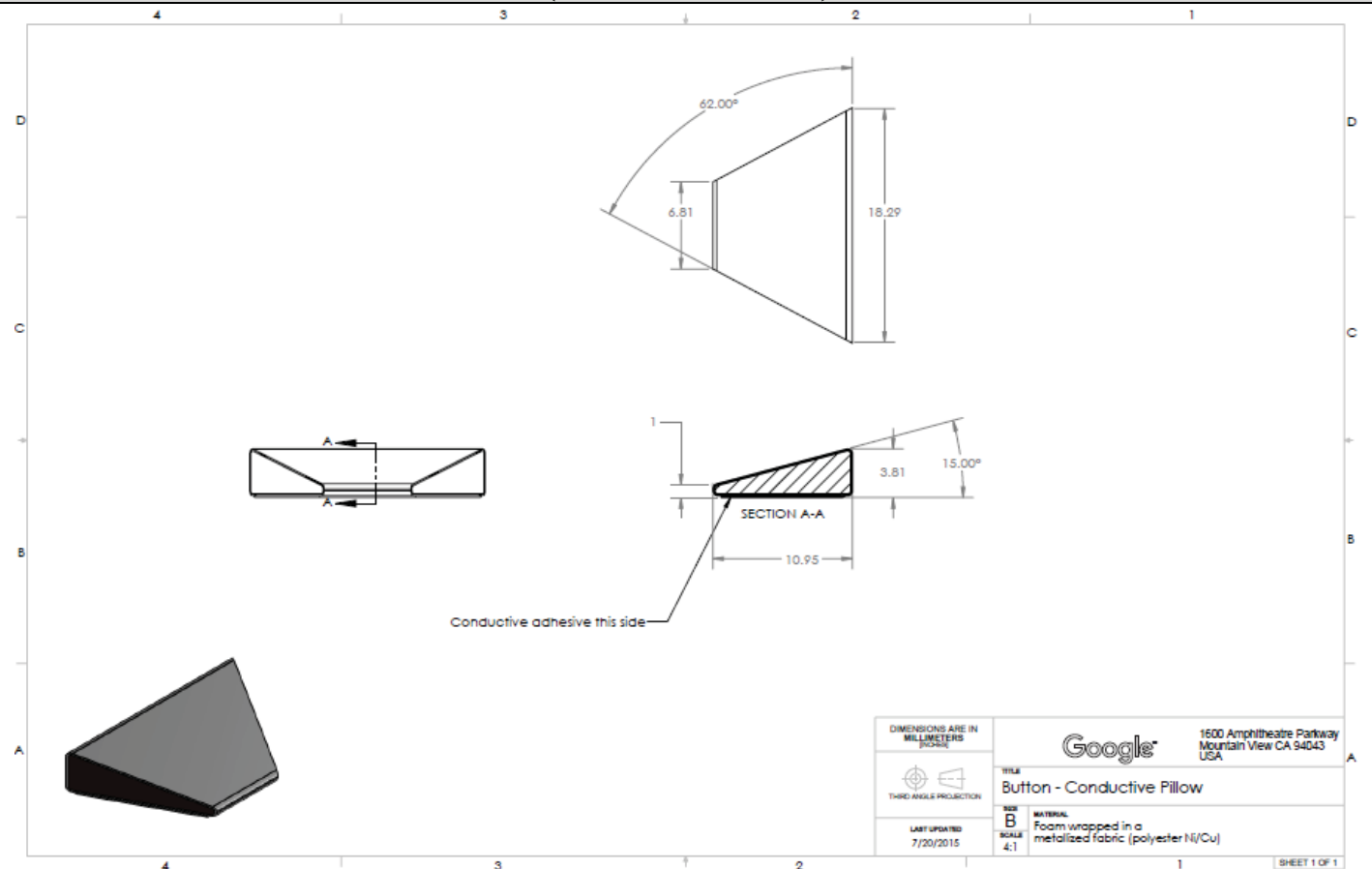
U.S. Patent No. 10,528,199 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 Figure 1. Typical components of a Google Cardboard viewer: (1) - input, (2) - enclosure, (3) - lenses. Google Cardboard Best Practices – Version 3.0 (2020). 3.2. Cardboard Mechanical Design Specifications Google Cardboard (I/O 2015) mechanical body consists of three distinct parts: chassis, t-shirt and button. Each of these parts is made from the corrugated cardboard.

U.S. Patent No. 10,528,199 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

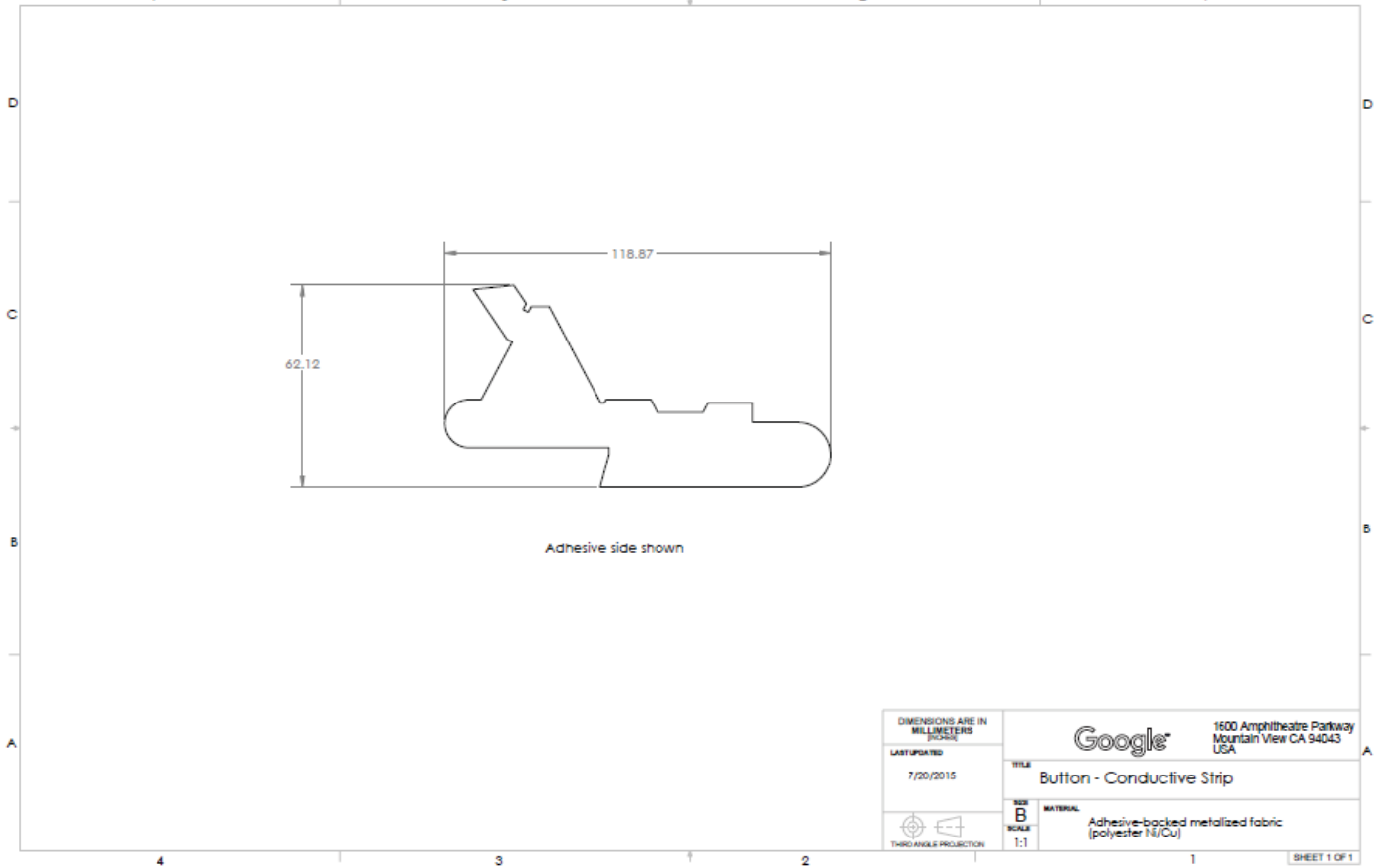
U.S. Patent No. 10,528,199 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i>

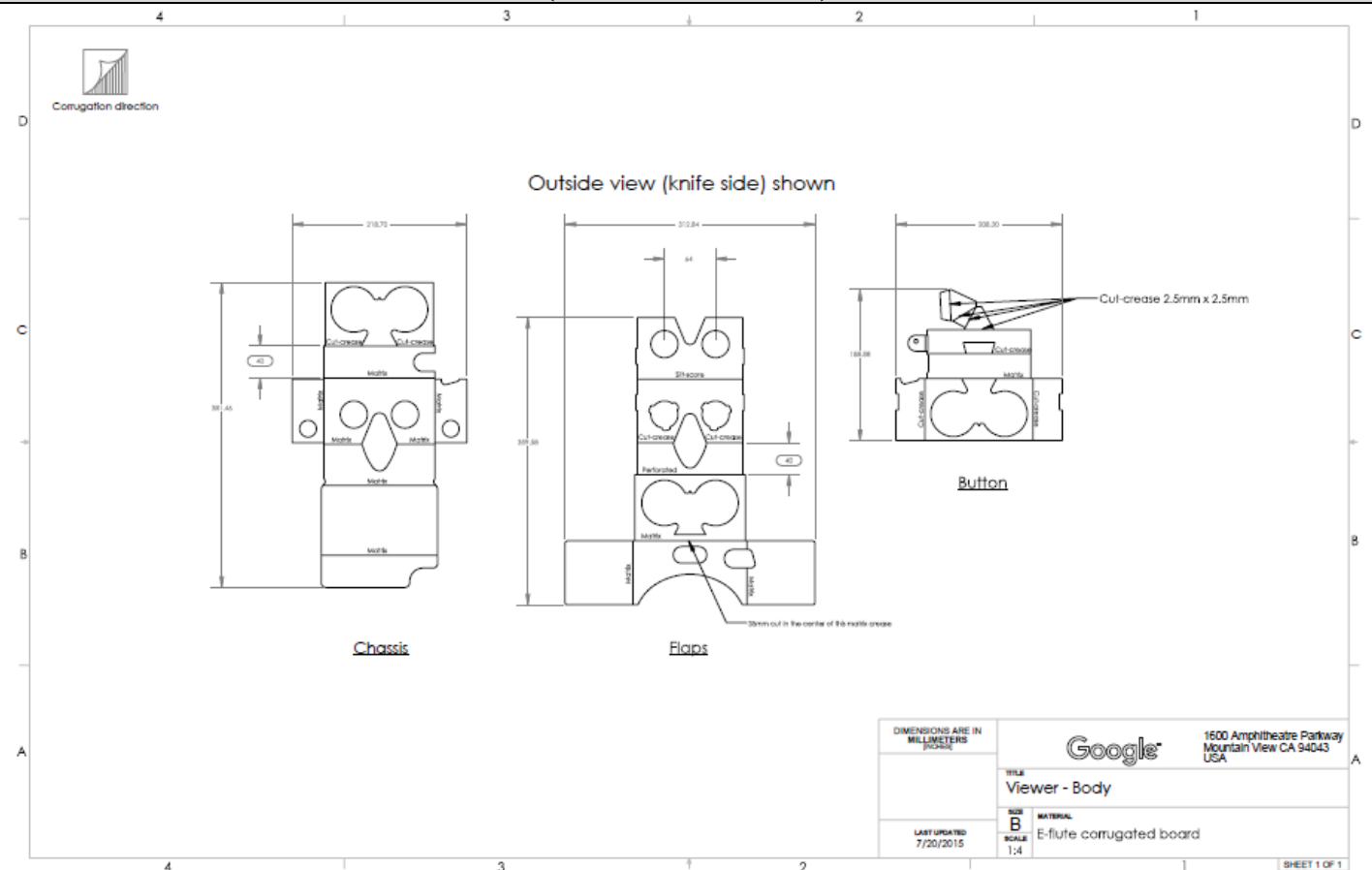
U.S. Patent No. 10,528,199 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")												
	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015). 4.1. Corrugate Tooling Verification The following critical dimensions should be verified for the corrugate tooling (e.g. die-cuts) before proceeding to production. For critical dimension illustrations (A, B, C) in Table 12 see the figures below. <table><tr><th>Parameters</th><th>Value</th><th>Unit</th><th>Note</th></tr><tr><td>Distance between two fold lines defining the thickness of Cardboard chassis</td><td>40 (+/-0.5)</td><td>mm</td><td>A, C</td></tr><tr><td>Distance between the centers of lens holders (IPD)</td><td>64 (+/-0.5)</td><td>mm</td><td>B</td></tr></table> <i>Table 13: Corrugate tooling verification specifications.</i>	Parameters	Value	Unit	Note	Distance between two fold lines defining the thickness of Cardboard chassis	40 (+/-0.5)	mm	A, C	Distance between the centers of lens holders (IPD)	64 (+/-0.5)	mm	B
Parameters	Value	Unit	Note										
Distance between two fold lines defining the thickness of Cardboard chassis	40 (+/-0.5)	mm	A, C										
Distance between the centers of lens holders (IPD)	64 (+/-0.5)	mm	B										

U.S. Patent No. 10,528,199 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)															
	4.3. Assembled First Article Verification The following distances are critically important for the final, assembled units. Inspect the first articles of the fully assembled viewers to ensure that these tolerances are respected. <table><tr><th>Parameters</th><th>Value</th><th>Tolerance</th><th>Unit</th><th></th></tr><tr><td>Distance from the back surface to the screen (see picture below)</td><td>37.3</td><td>+2/-0.5</td><td>mm</td><td>D</td></tr><tr><td>Distance between the centers of lens holders</td><td>64</td><td>+/-0.5</td><td>mm</td><td>B</td></tr></table> Table 15: Finished assembly tolerance specifications. 4.4. Additional First Article Approval Criteria After verifying that the critical tolerances in Table 13 hold for the first articles, ensure that the criteria described below hold for the assembled units. Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).	Parameters	Value	Tolerance	Unit		Distance from the back surface to the screen (see picture below)	37.3	+2/-0.5	mm	D	Distance between the centers of lens holders	64	+/-0.5	mm	B
Parameters	Value	Tolerance	Unit													
Distance from the back surface to the screen (see picture below)	37.3	+2/-0.5	mm	D												
Distance between the centers of lens holders	64	+/-0.5	mm	B												



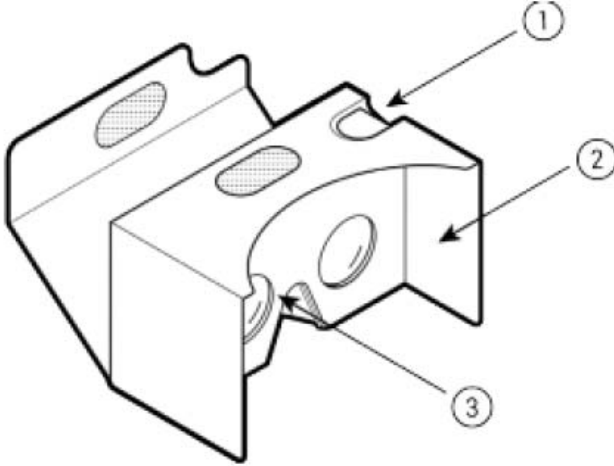
Button – Conductive Pillow.pdf

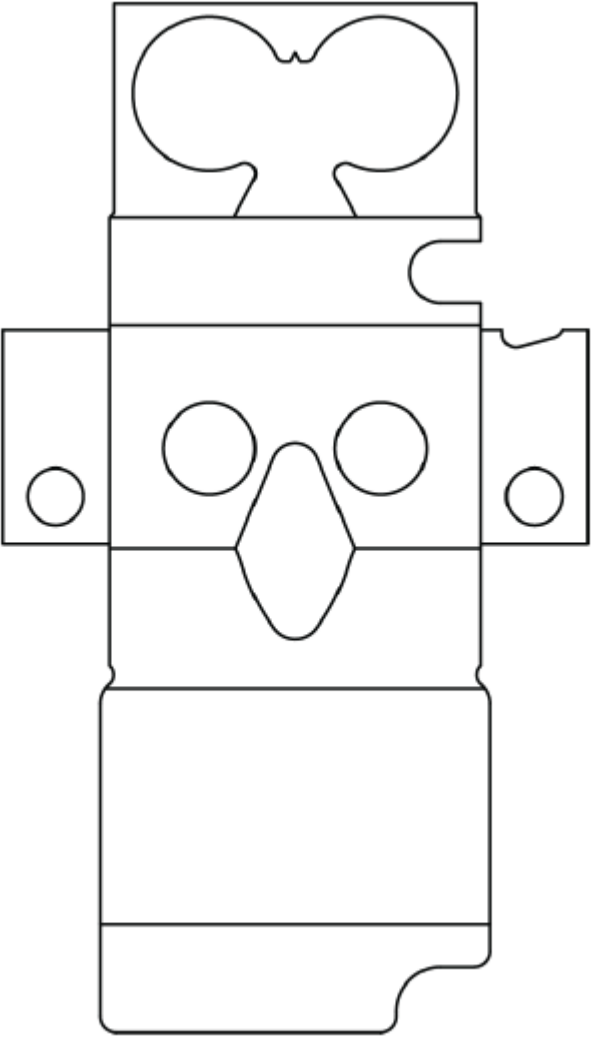
U.S. Patent No. 10,528,199 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 Technical drawing of a conductive strip, labeled "Button - Conductive Strip.pdf". The drawing shows the adhesive side of the strip. Dimensions are provided: 118.87 (width) and 62.12 (height). The drawing is oriented with the adhesive side shown. The drawing is labeled "Button - Conductive Strip.pdf". Adhesive side shown Button - Conductive Strip.pdf Technical drawing details: - Dimensions: 118.87 (width), 62.12 (height) - Orientation: Adhesive side shown - Title: Button - Conductive Strip - Material: Adhesive-backed metallized fabric (polyester Ni/Cu) - Scale: 1:1 - Sheet: 1 of 1

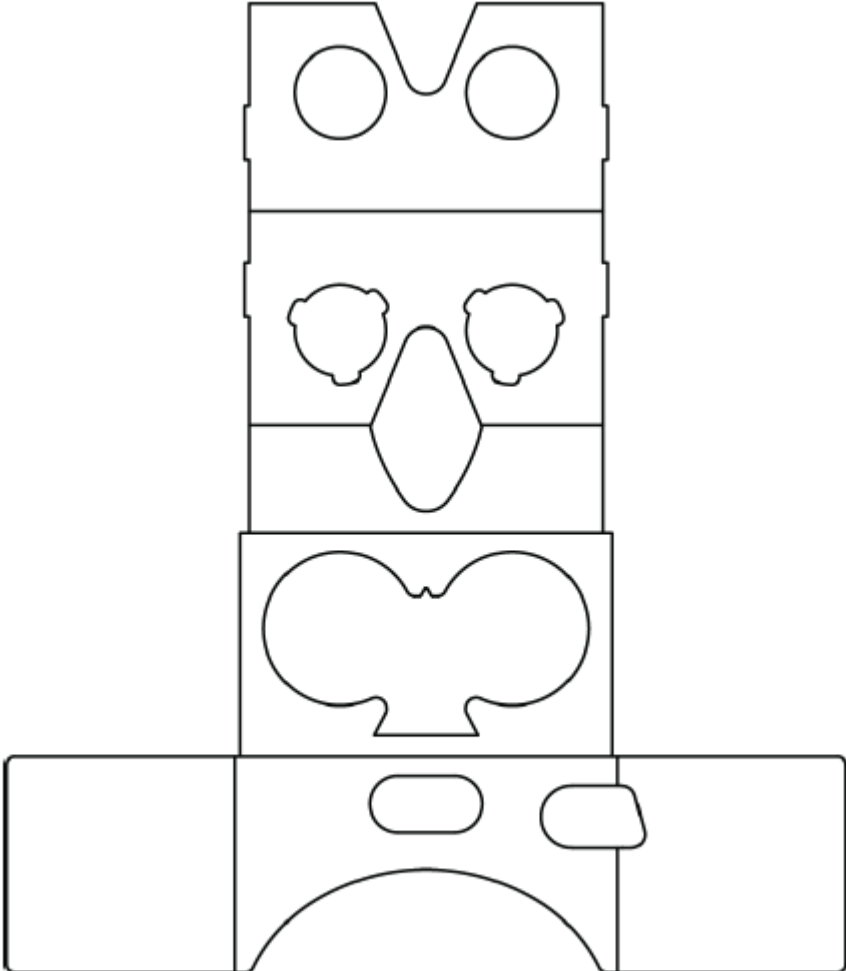


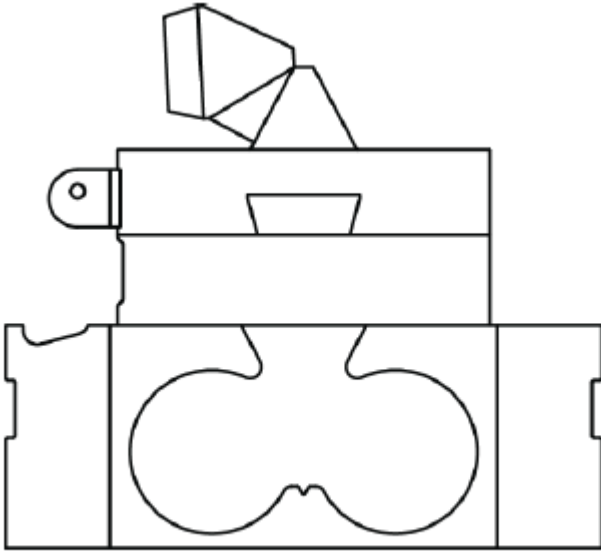
Viewer – Body.pdf

U.S. Patent No. 10,528,199 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
a first lens and a second lens, wherein the first lens is facing the same direction as the second lens, and wherein the first lens and the second lens are spaced apart in a horizontal direction;	<i>The Cardboard Viewers comprise a first lens and a second lens, wherein the first lens is facing the same direction as the second lens, and wherein the first and second lens are spaced apart in a horizontal direction.</i> The image shows a close-up of the Google Cardboard GCV2 VR viewer. It is a cardboard-based device with two circular lenses. The lenses are positioned horizontally apart from each other. The cardboard is light brown, and there are black straps visible for securing the device to a head. The lenses appear to have some text or markings on them, but they are not clearly legible. GCV2 Physical Unit.

U.S. Patent No. 10,528,199 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 Figure 1. Typical components of a Google Cardboard viewer: (1) - input, (2) - enclosure, (3) - lenses. Google Cardboard Best Practices – Version 3.0 (2020). 3. Design Specifications This section provides the technical design specifications of Google Cardboard (I/O 2015 edition). It contains the detailed specifications for all major functional parts of Google Cardboard, including lenses, capacitive button, mechanical body, sleeve, oleophobic coating and printed artwork. Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015). 3.2. Cardboard Mechanical Design Specifications Google Cardboard (I/O 2015) mechanical body consists of three distinct parts: chassis, t-shirt and button. Each of these parts is made from the corrugated cardboard.

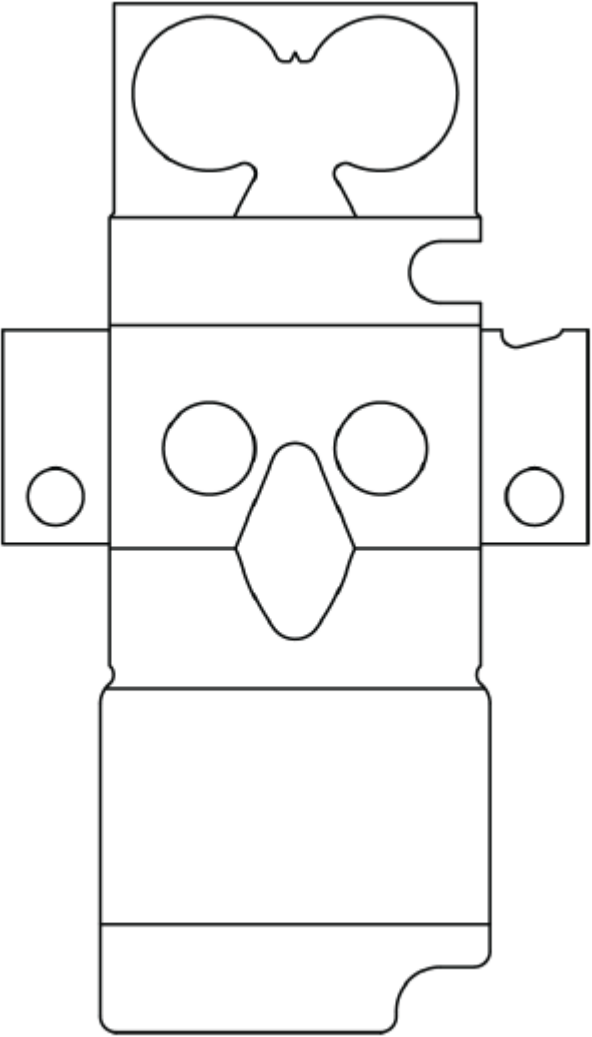
U.S. Patent No. 10,528,199 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

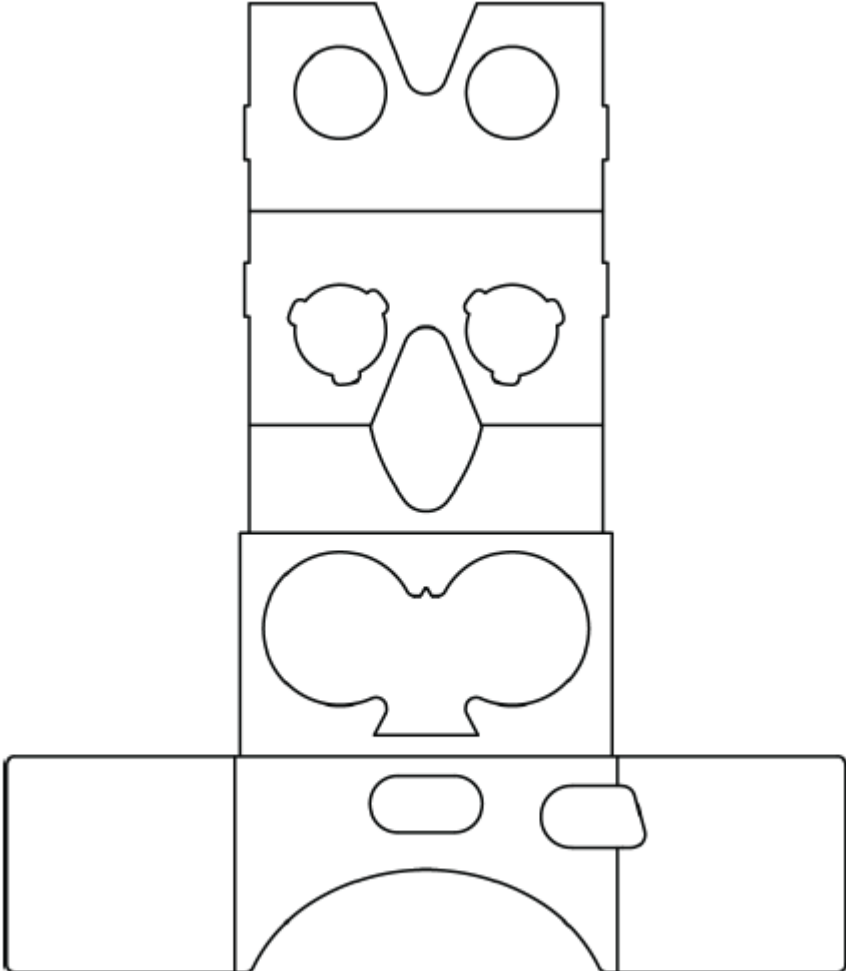
U.S. Patent No. 10,528,199 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i>

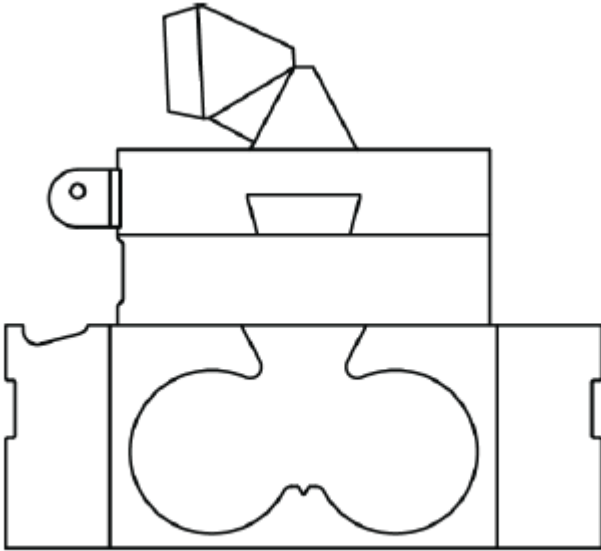
U.S. Patent No. 10,528,199 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

U.S. Patent No. 10,528,199 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
a frame having a first side and a second side opposite the first side, the first side configured to hold the first lens and the second lens, the second side configured to receive the mobile electronic device, wherein the frame is configured to hold the mobile electronic device such that the mobile electronic device is generally centered in a horizontal direction and directly in a user’s field of view when looking through the first side of the frame; and	<i>The Cardboard Viewers comprise a frame having a first side and a second side opposite the first side, the first side configured to hold the first lens and the second lens, the second side configured to receive the mobile electronic device.</i> GCV2 Physical Unit. Figure 1. Typical components of a Google Cardboard viewer: (1) - input, (2) - enclosure, (3) - lenses. Google Cardboard Best Practices – Version 3.0 (2020).

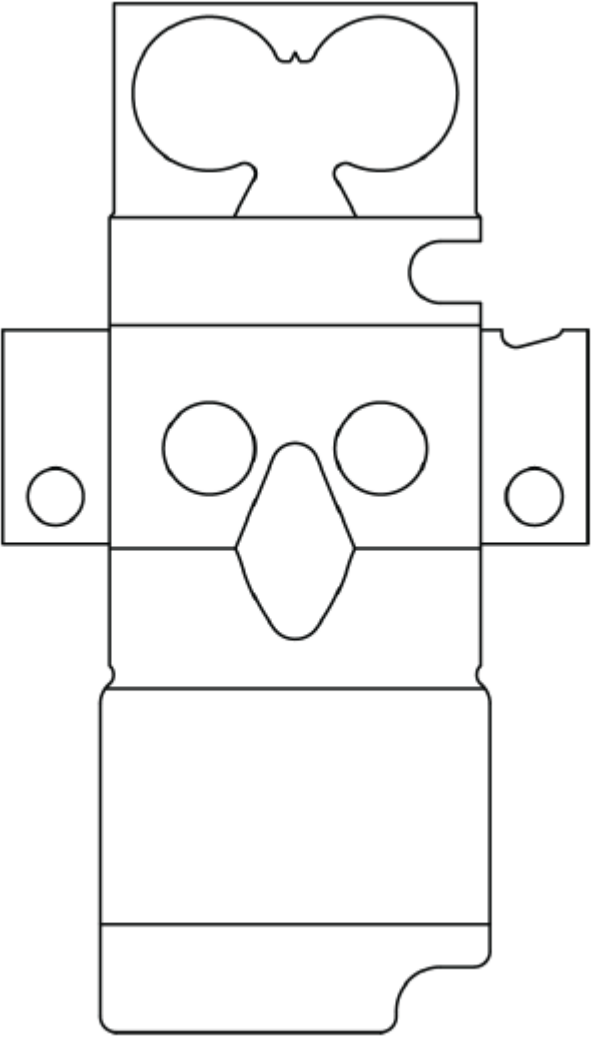
U.S. Patent No. 10,528,199 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	3. Design Specifications This section provides the technical design specifications of Google Cardboard (I/O 2015 edition). It contains the detailed specifications for all major functional parts of Google Cardboard, including lenses, capacitive button, mechanical body, sleeve, oleophobic coating and printed artwork. Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015). 3.2. Cardboard Mechanical Design Specifications Google Cardboard (I/O 2015) mechanical body consists of three distinct parts: chassis, t-shirt and button. Each of these parts is made from the corrugated cardboard.

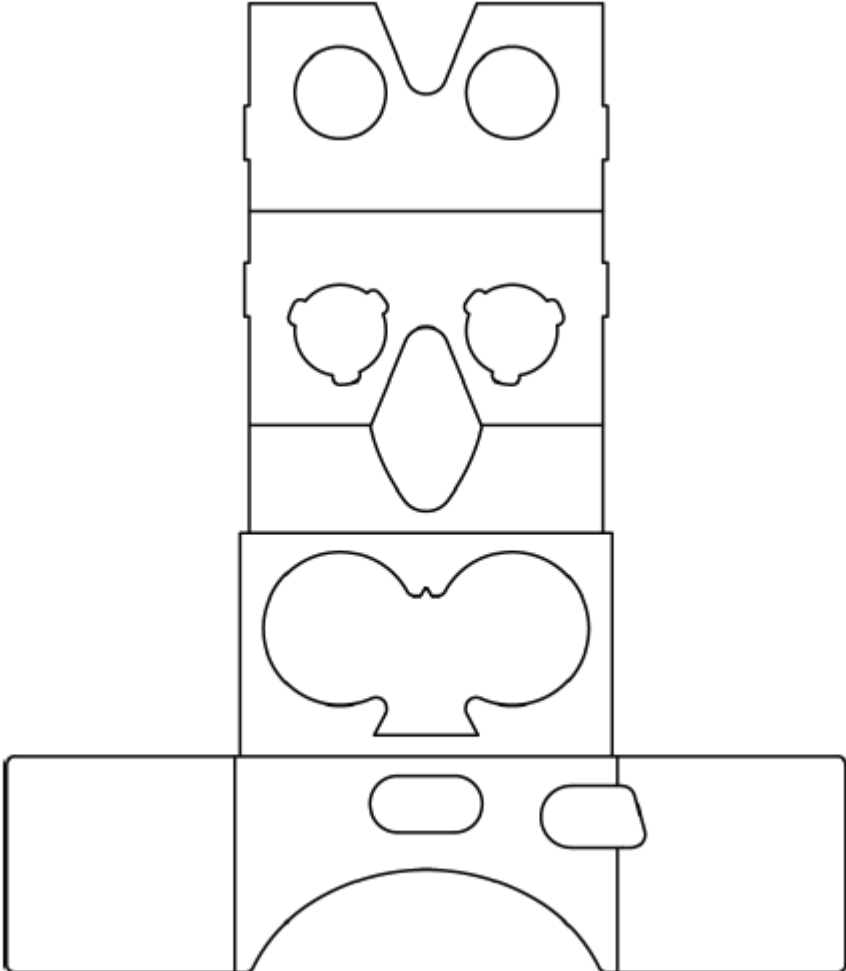
U.S. Patent No. 10,528,199 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

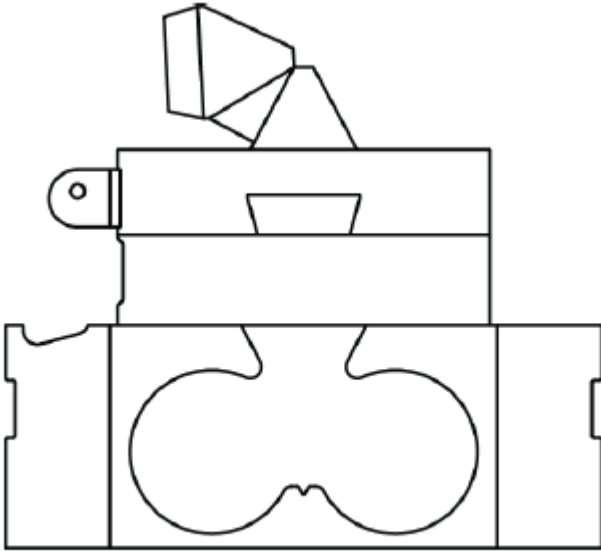
U.S. Patent No. 10,528,199 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i>

U.S. Patent No. 10,528,199 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

U.S. Patent No. 10,528,199 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
	<i>The frame is configured to hold the mobile electronic device such that the mobile electronic device is generally centered in a horizontal direction and directly in a user’s field of view when looking through the first side of the frame.</i>   GCV2 Physical Unit. 3.2. Cardboard Mechanical Design Specifications Google Cardboard (I/O 2015) mechanical body consists of three distinct parts: chassis, t-shirt and button. Each of these parts is made from the corrugated cardboard.

U.S. Patent No. 10,528,199 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

U.S. Patent No. 10,528,199 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i>

U.S. Patent No. 10,528,199 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015). 3. The conductive pillow should be centered within the phone-facing apertures, and the bottom edge of the conductive pillow should be lined up with the corresponding cardboard edge. Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

U.S. Patent No. 10,528,199 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
a touchscreen input constructed of material and having a surface such that only a portion of the surface of the touchscreen input is configured to contact a central region of the touchscreen of the mobile electronic device when the touchscreen input is activated.	<i>The Cardboard Viewers comprise a touchscreen input constructed of material and having a surface such that only a portion of the surface of the touchscreen input is configured to contact a central region of the touchscreen of the mobile electronic device when the touchscreen input is activated.</i> GCV2 Physical Unit. The touchscreen input of the Cardboard Viewers is the "pillow" - and, specifically, the metalized fabric that encases the "pillow" and faces the touchscreen of an electronic device (in red). See also annotated supplement. The portion of the surface of the touchscreen input of the Cardboard Viewers is the surface of the "pillow" that makes contact with the touchscreen (in blue). See also annotated supplement. Figure 1. Typical components of a Google Cardboard viewer: (1) - input, (2) - enclosure, (3) - lenses. Google Cardboard Best Practices – Version 3.0 (2020).

U.S. Patent No. 10,528,199 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	3.2. Cardboard Mechanical Design Specifications Google Cardboard (I/O 2015) mechanical body consists of three distinct parts: chassis, t-shirt and button. Each of these parts is made from the corrugated cardboard. <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015). 3.3. Button Specifications: Conductive Strip and Pillow Google Cardboard (I/O 2015) button consists of two conductive parts ("pillow" and "strip"), glued to a cardboard-based "hammer".

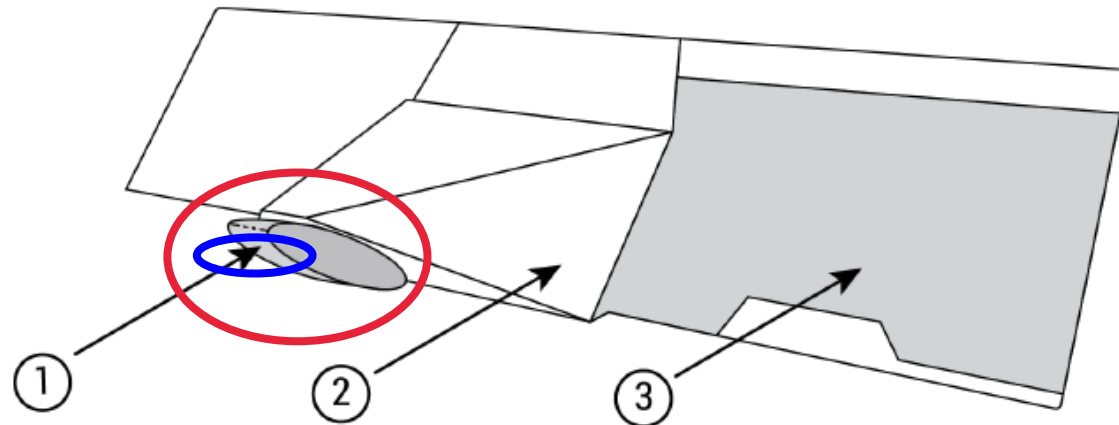


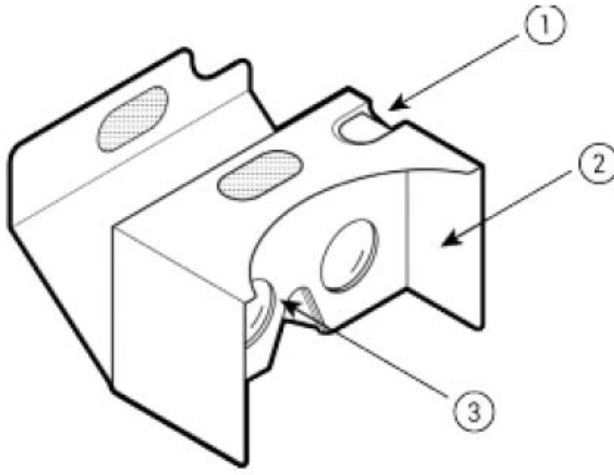
Figure 7. Cardboard button parts: (1) - "pillow", (2) - "hammer", (3) - "conductive strip"

3.3.1. Conductive Strip Specifications

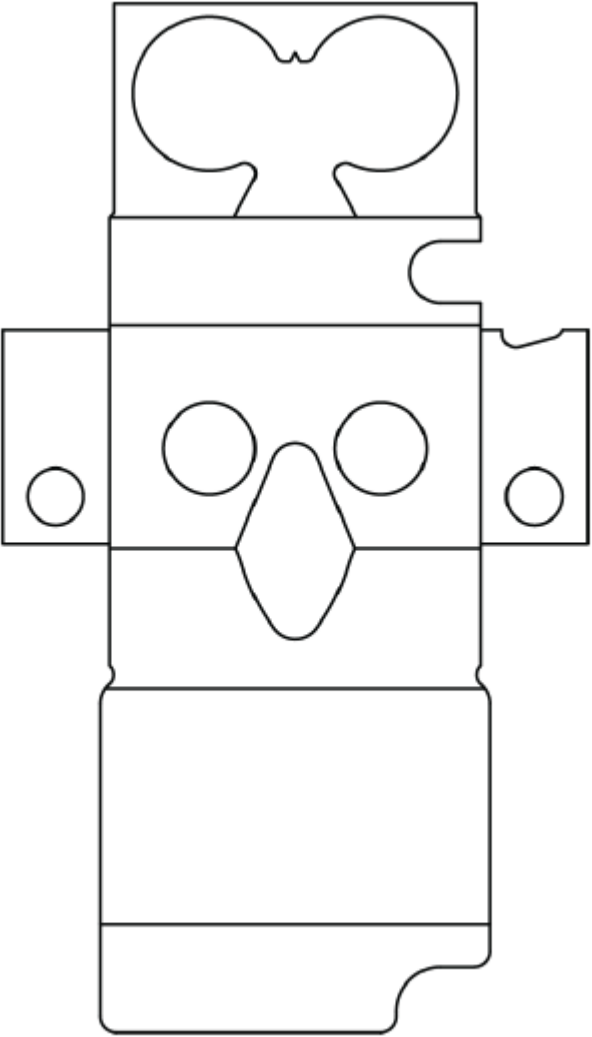
Parameters	Value	Unit
Material	Metallized fabric (polyester Ni/Cu)	
Surface resistivity	< 0.03	$\Omega/\text{sq.}$
Z-axis resistance	< 0.03	Ω

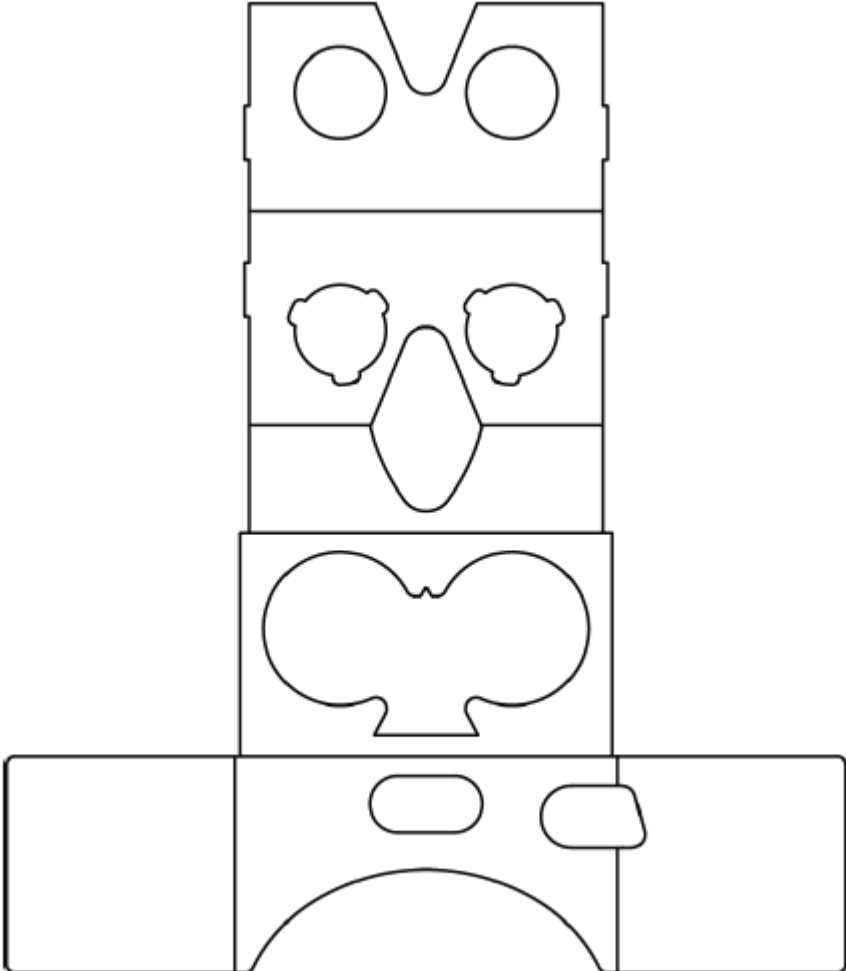
Table 6. Conductive strip specifications.

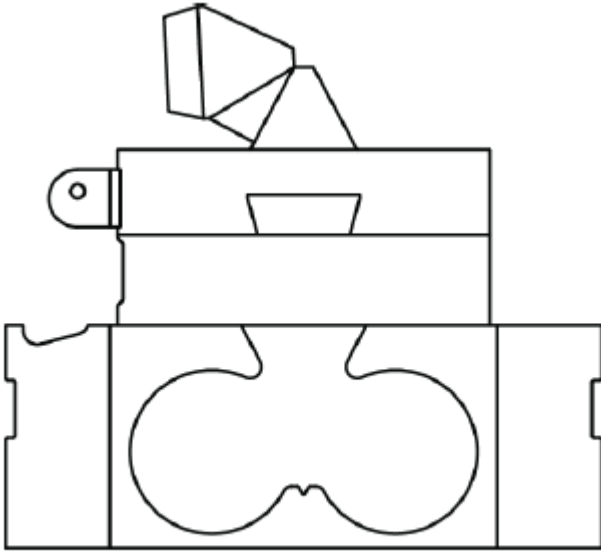
U.S. Patent No. 10,528,199 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)																		
	3.3.2. Conductive Pillow Specifications <table><tr><th>Parameters</th><th>Value</th><th>Unit</th></tr><tr><td>Surface material</td><td>Metallized fabric (polyester Ni/Cu)</td><td></td></tr><tr><td>Core material</td><td>Soft urethane foam</td><td></td></tr><tr><td>Core surface resistivity</td><td>< 0.07</td><td>Ω/sq.</td></tr><tr><td>PSA type</td><td>Conductive</td><td></td></tr><tr><td>PSA Z-axis resistance</td><td>< 0.05</td><td>Ω</td></tr></table> Table 7. Conductive pillow specifications. Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015). 3. The conductive pillow should be centered within the phone-facing apertures, and the bottom edge of the conductive pillow should be lined up with the corresponding cardboard edge. Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).	Parameters	Value	Unit	Surface material	Metallized fabric (polyester Ni/Cu)		Core material	Soft urethane foam		Core surface resistivity	< 0.07	Ω/sq.	PSA type	Conductive		PSA Z-axis resistance	< 0.05	Ω
Parameters	Value	Unit																	
Surface material	Metallized fabric (polyester Ni/Cu)																		
Core material	Soft urethane foam																		
Core surface resistivity	< 0.07	Ω/sq.																	
PSA type	Conductive																		
PSA Z-axis resistance	< 0.05	Ω																	

U.S. Patent No. 10,528,199 Claim 2	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
The virtual reality viewer of claim 1, further comprising a user input that is accessible from an exterior of the frame and is coupled to the touchscreen input.	<i>The Cardboard Viewers comprise a user input that is accessible from an exterior of the frame and is coupled to the touchscreen input.</i>  GCV2 Physical Unit.  Figure 1. Typical components of a Google Cardboard viewer: (1) - input, (2) - enclosure, (3) - lenses. Google Cardboard Best Practices – Version 3.0 (2020).

U.S. Patent No. 10,528,199 Claim 2	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	3.2. Cardboard Mechanical Design Specifications Google Cardboard (I/O 2015) mechanical body consists of three distinct parts: chassis, t-shirt and button. Each of these parts is made from the corrugated cardboard.

U.S. Patent No. 10,528,199 Claim 2	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

U.S. Patent No. 10,528,199 Claim 2	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i>

U.S. Patent No. 10,528,199 Claim 2	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015). 3.3. Button Specifications: Conductive Strip and Pillow Google Cardboard (I/O 2015) button consists of two conductive parts ("pillow" and "strip"), glued to a cardboard-based "hammer".

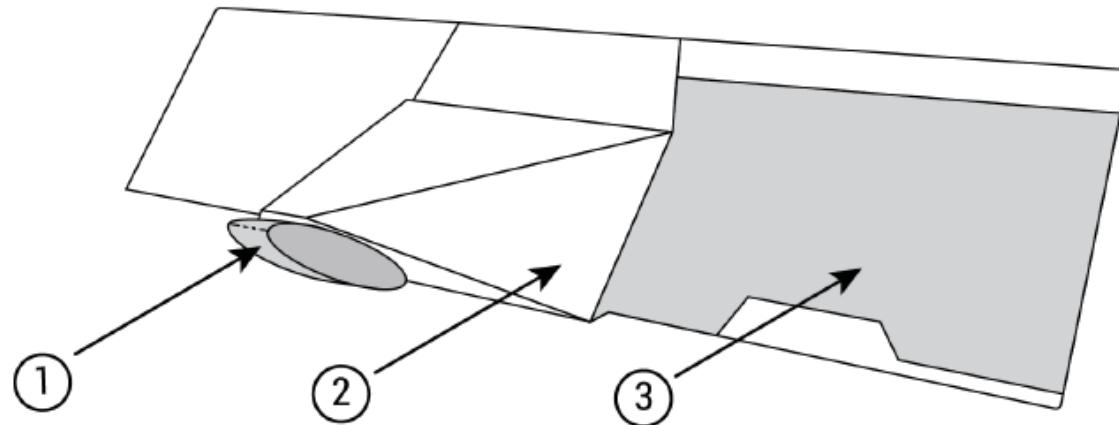


Figure 7. Cardboard button parts: (1) - "pillow", (2) - "hammer", (3) - "conductive strip"

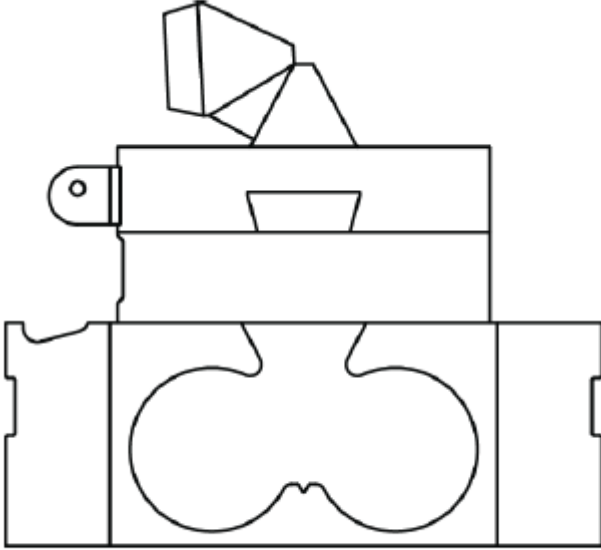
3.3.1. Conductive Strip Specifications

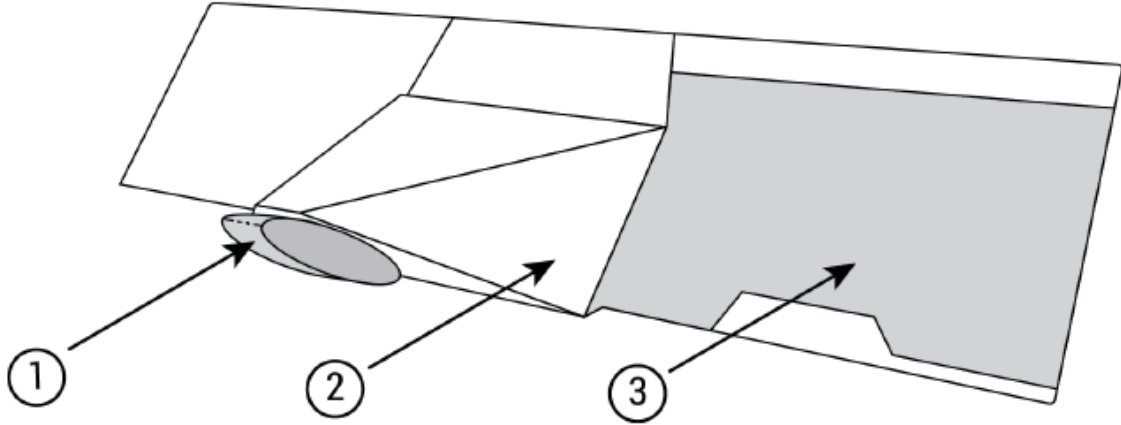
Parameters	Value	Unit
Material	Metallized fabric (polyester Ni/Cu)	
Surface resistivity	< 0.03	$\Omega/\text{sq.}$
Z-axis resistance	< 0.03	Ω

Table 6. Conductive strip specifications.

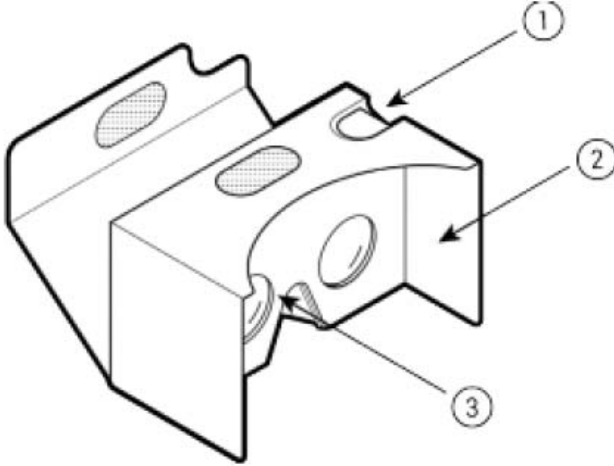
U.S. Patent No. 10,528,199 Claim 2	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")		
	<u>3.3.2. Conductive Pillow Specifications</u>		
	Parameters	Value	Unit
	Surface material	Metallized fabric (polyester Ni/Cu)	
	Core material	Soft urethane foam	
	Core surface resistivity	< 0.07	Ω/sq.
	PSA type	Conductive	
	PSA Z-axis resistance	< 0.05	Ω
	<i>Table 7. Conductive pillow specifications.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).		

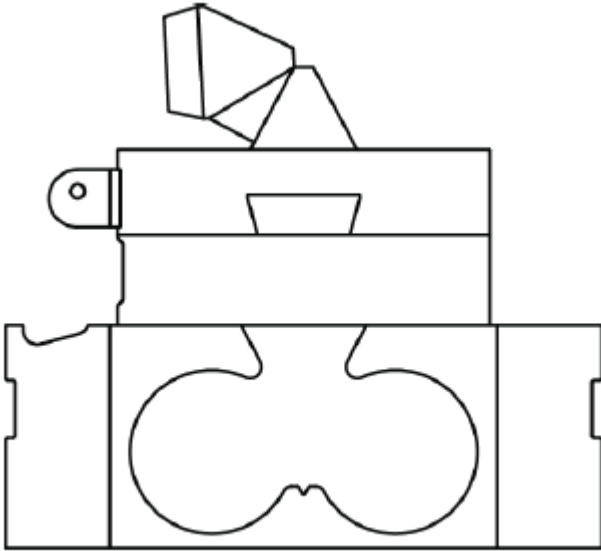
U.S. Patent No. 10,528,199 Claim 5	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
The virtual reality viewer of claim 2, wherein said user input is a tactile user input.	<i>The user input of the Cardboard Viewers is a tactile user input.</i> GCV2 Physical Unit. Figure 1. Typical components of a Google Cardboard viewer: (1) - input, (2) - enclosure, (3) - lenses. Google Cardboard Best Practices – Version 3.0 (2020).

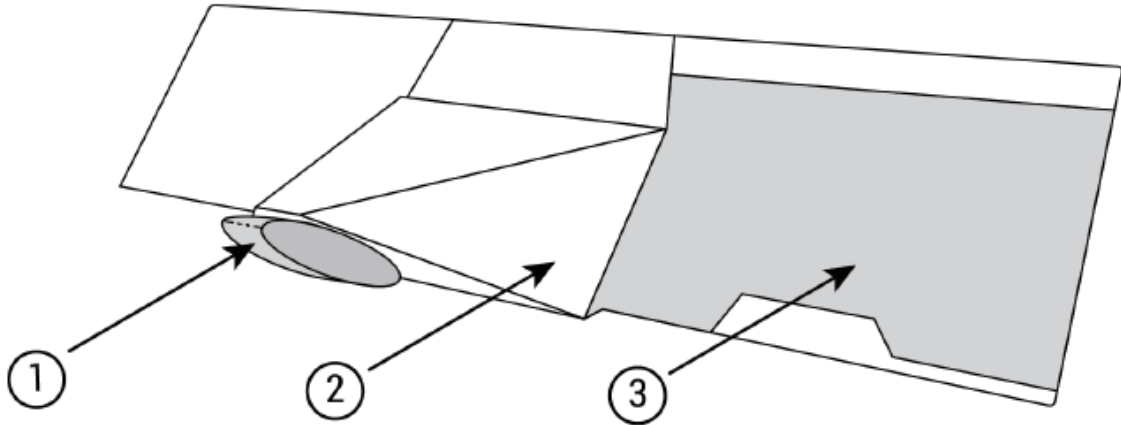
U.S. Patent No. 10,528,199 Claim 5	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	If you're using a conductive input which passes user's body charge onto the smartphone screen, ensure that the input is not touching the screen in a "non-pressed" state. Magnet Input: We no longer recommend magnet-based inputs as they tend to work less reliably than conductive or capacitive inputs due to magnetometer variance within smartphones. Google Cardboard Best Practices – Version 3.0 (2020). 3.2. Cardboard Mechanical Design Specifications Google Cardboard (I/O 2015) mechanical body consists of three distinct parts: chassis, t-shirt and button. Each of these parts is made from the corrugated cardboard.  <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

U.S. Patent No. 10,528,199 Claim 5	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	3.3. Button Specifications: Conductive Strip and Pillow Google Cardboard (I/O 2015) button consists of two conductive parts ("pillow" and "strip"), glued to a cardboard-based "hammer".  <i>Figure 7. Cardboard button parts: (1) - "pillow", (2) - "hammer", (3) - "conductive strip"</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

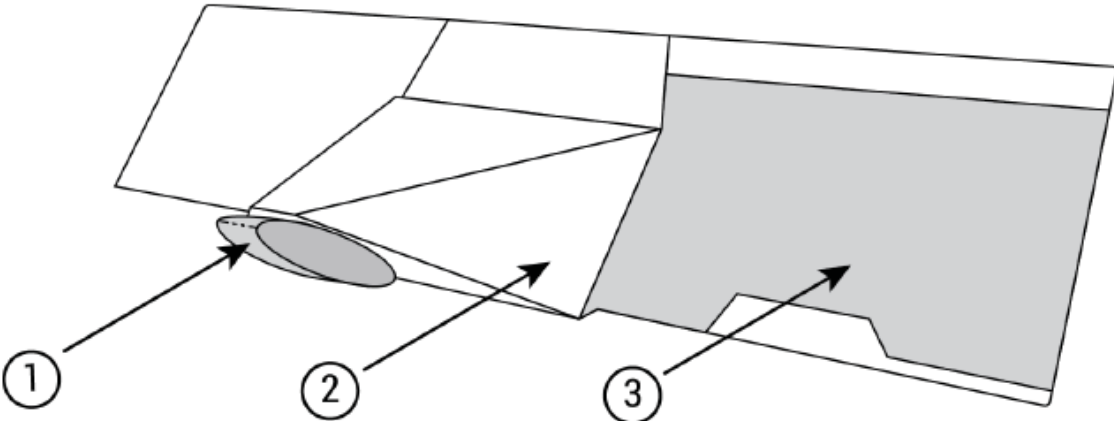
U.S. Patent No. 10,528,199 Claim 6	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
The virtual reality viewer of claim [5], wherein said tactile input is a depressible button.	<i>The tactile input of the Cardboard Viewers is a depressible button.</i> GCV2 Physical Unit. If you're using a conductive input which passes user's body charge onto the smartphone screen, ensure that the input is not touching the screen in a “non-pressed” state. Google Cardboard Best Practices – Version 3.0 (2020).

U.S. Patent No. 10,528,199 Claim 6	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 Figure 1. Typical components of a Google Cardboard viewer: (1) - input, (2) - enclosure, (3) - lenses. Google Cardboard Best Practices – Version 3.0 (2020). 3.2. Cardboard Mechanical Design Specifications Google Cardboard (I/O 2015) mechanical body consists of three distinct parts: chassis, t-shirt and button. Each of these parts is made from the corrugated cardboard.

U.S. Patent No. 10,528,199 Claim 6	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015). 3.3. Button Specifications: Conductive Strip and Pillow Google Cardboard (I/O 2015) button consists of two conductive parts ("pillow" and "strip"), glued to a cardboard-based "hammer".

U.S. Patent No. 10,528,199 Claim 6	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 7. Cardboard button parts: (1) - "pillow", (2) - "hammer", (3) - "conductive strip"</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015). 2. The button should be easily pushable down. After releasing it should spring back. Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

U.S. Patent No. 10,528,199 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
The virtual reality viewer of claim 1, wherein the material is at least one of the following: a conductive foam or polymer, conductive rubber, metalized plastic, wire mesh fabric, metallic fabric with foam, a carbon based ink, a conductive ink, a material capable of carrying a surface charge that activates a capacitive touchscreen, a material capable of activating a capacitive touchscreen.	<i>The Cardboard Viewers’ touchscreen input comprises a material of at least one of the following: a conductive foam or polymer, wire mesh fabric, metallic fabric with foam, a material capable of carrying a surface charge that activates a capacitive touchscreen, a material capable of activating a capacitive touchscreen.</i>  GCV2 Physical Unit. If you’re using a conductive input which passes user’s body charge onto the smartphone screen, ensure that the input is not touching the screen in a “non-pressed” state. Magnet Input: We no longer recommend magnet-based inputs as they tend to work less reliably than conductive or capacitive inputs due to magnetometer variance within smartphones. Google Cardboard Best Practices – Version 3.0 (2020). 3. Design Specifications This section provides the technical design specifications of Google Cardboard (I/O 2015 edition). It contains the detailed specifications for all major functional parts of Google Cardboard, including lenses, capacitive button, mechanical body, sleeve, oleophobic coating and printed artwork. Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

U.S. Patent No. 10,528,199 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")												
	3.3. Button Specifications: Conductive Strip and Pillow Google Cardboard (I/O 2015) button consists of two conductive parts ("pillow" and "strip"), glued to a cardboard-based "hammer".  Figure 7. Cardboard button parts: (1) - "pillow", (2) - "hammer", (3) - "conductive strip" 3.3.1. Conductive Strip Specifications <table><tr><th>Parameters</th><th>Value</th><th>Unit</th></tr><tr><td>Material</td><td>Metallized fabric (polyester Ni/Cu)</td><td></td></tr><tr><td>Surface resistivity</td><td>< 0.03</td><td>Ω/sq.</td></tr><tr><td>Z-axis resistance</td><td>< 0.03</td><td>Ω</td></tr></table> Table 6. Conductive strip specifications.	Parameters	Value	Unit	Material	Metallized fabric (polyester Ni/Cu)		Surface resistivity	< 0.03	Ω/sq.	Z-axis resistance	< 0.03	Ω
Parameters	Value	Unit											
Material	Metallized fabric (polyester Ni/Cu)												
Surface resistivity	< 0.03	Ω/sq.											
Z-axis resistance	< 0.03	Ω											

U.S. Patent No. 10,528,199 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")		
	<u>3.3.2. Conductive Pillow Specifications</u>		
	Parameters	Value	Unit
	Surface material	Metallized fabric (polyester Ni/Cu)	
	Core material	Soft urethane foam	
	Core surface resistivity	< 0.07	Ω/sq.
	PSA type	Conductive	
	PSA Z-axis resistance	< 0.05	Ω
	<i>Table 7. Conductive pillow specifications.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).		

U.S. Patent No. 10,528,199 Claim 21	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
The virtual reality viewer of claim 1, further comprising at least one user input, that user input being coupled to the touchscreen input and configured to receive interactions from a user.	<i>The Cardboard Viewers comprise at least one user input, that user input being coupled to the touchscreen input and configured to receive interactions from a user.</i> GCV2 Physical Unit. Figure 1. Typical components of a Google Cardboard viewer: (1) - input, (2) - enclosure, (3) - lenses. Google Cardboard Best Practices – Version 3.0 (2020).

3.3. Button Specifications: Conductive Strip and Pillow

Google Cardboard (I/O 2015) button consists of two conductive parts ("pillow" and "strip"), glued to a cardboard-based "hammer".

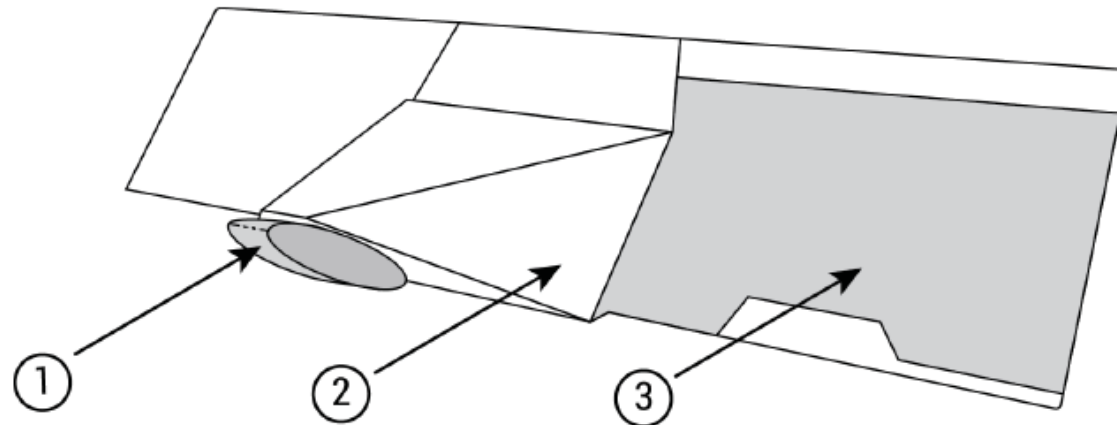


Figure 7. Cardboard button parts: (1) - "pillow", (2) - "hammer", (3) - "conductive strip"

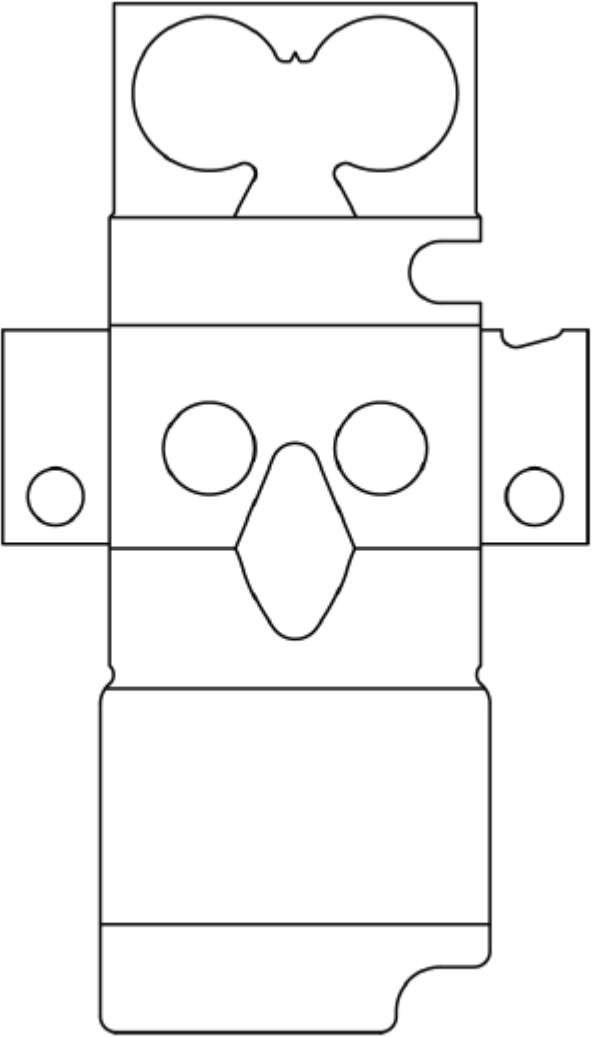
3.3.1. Conductive Strip Specifications

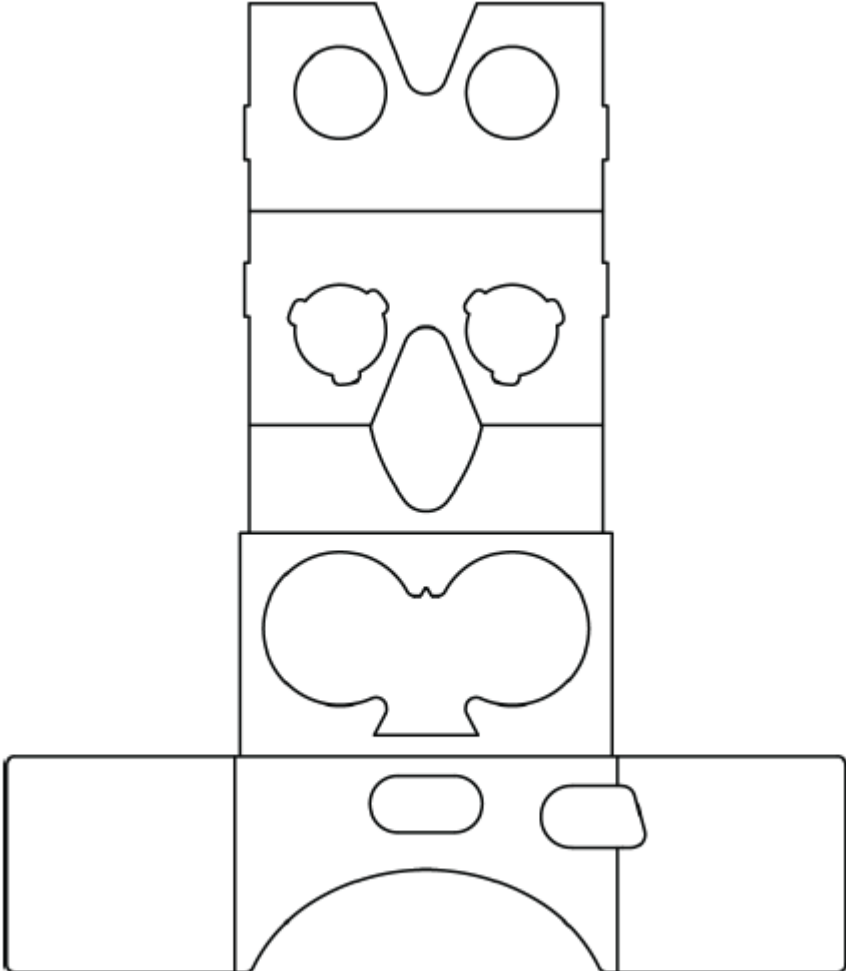
Parameters	Value	Unit
Material	Metallized fabric (polyester Ni/Cu)	
Surface resistivity	< 0.03	$\Omega/\text{sq.}$
Z-axis resistance	< 0.03	Ω

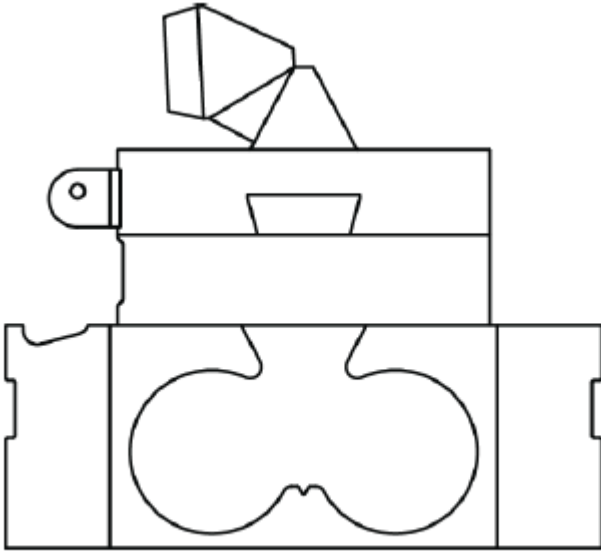
Table 6. Conductive strip specifications.

U.S. Patent No. 10,528,199 Claim 21	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)		
	<u>3.3.2. Conductive Pillow Specifications</u>		
	Parameters	Value	Unit
	Surface material	Metallized fabric (polyester Ni/Cu)	
	Core material	Soft urethane foam	
	Core surface resistivity	< 0.07	Ω/sq.
	PSA type	Conductive	
	PSA Z-axis resistance	< 0.05	Ω
	<i>Table 7. Conductive pillow specifications.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).		

U.S. Patent No. 10,528,199 Claim 23	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
The virtual reality viewer of claim 21, the user input being mechanically coupled to the touchscreen input.	<i>The user input of the Cardboard Viewers is mechanically coupled to the touchscreen input.</i>  GCV2 Physical Unit. 3. Design Specifications This section provides the technical design specifications of Google Cardboard (I/O 2015 edition). It contains the detailed specifications for all major functional parts of Google Cardboard, including lenses, capacitive button, mechanical body, sleeve, oleophobic coating and printed artwork. Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015). 3.2. Cardboard Mechanical Design Specifications Google Cardboard (I/O 2015) mechanical body consists of three distinct parts: chassis, t-shirt and button. Each of these parts is made from the corrugated cardboard.

U.S. Patent No. 10,528,199 Claim 23	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

U.S. Patent No. 10,528,199 Claim 23	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i>

U.S. Patent No. 10,528,199 Claim 23	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015). 3.3. Button Specifications: Conductive Strip and Pillow Google Cardboard (I/O 2015) button consists of two conductive parts ("pillow" and "strip"), glued to a cardboard-based "hammer".

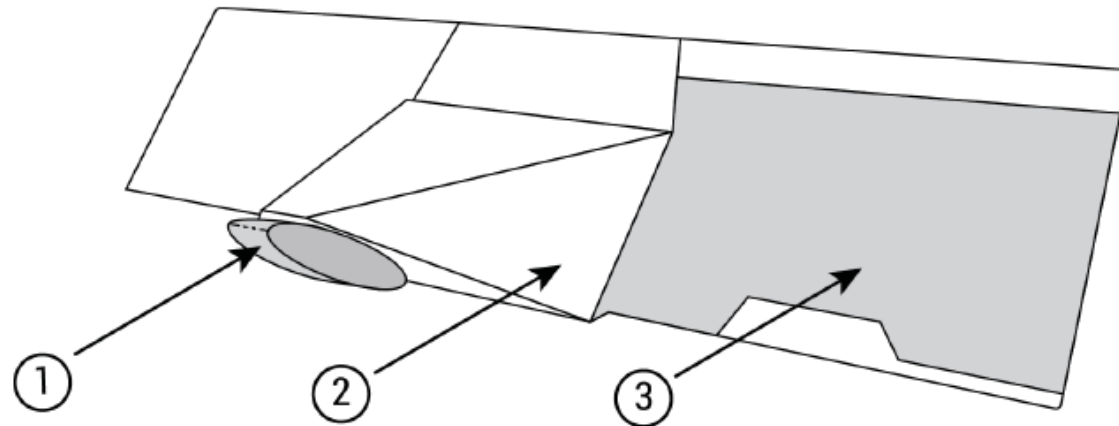
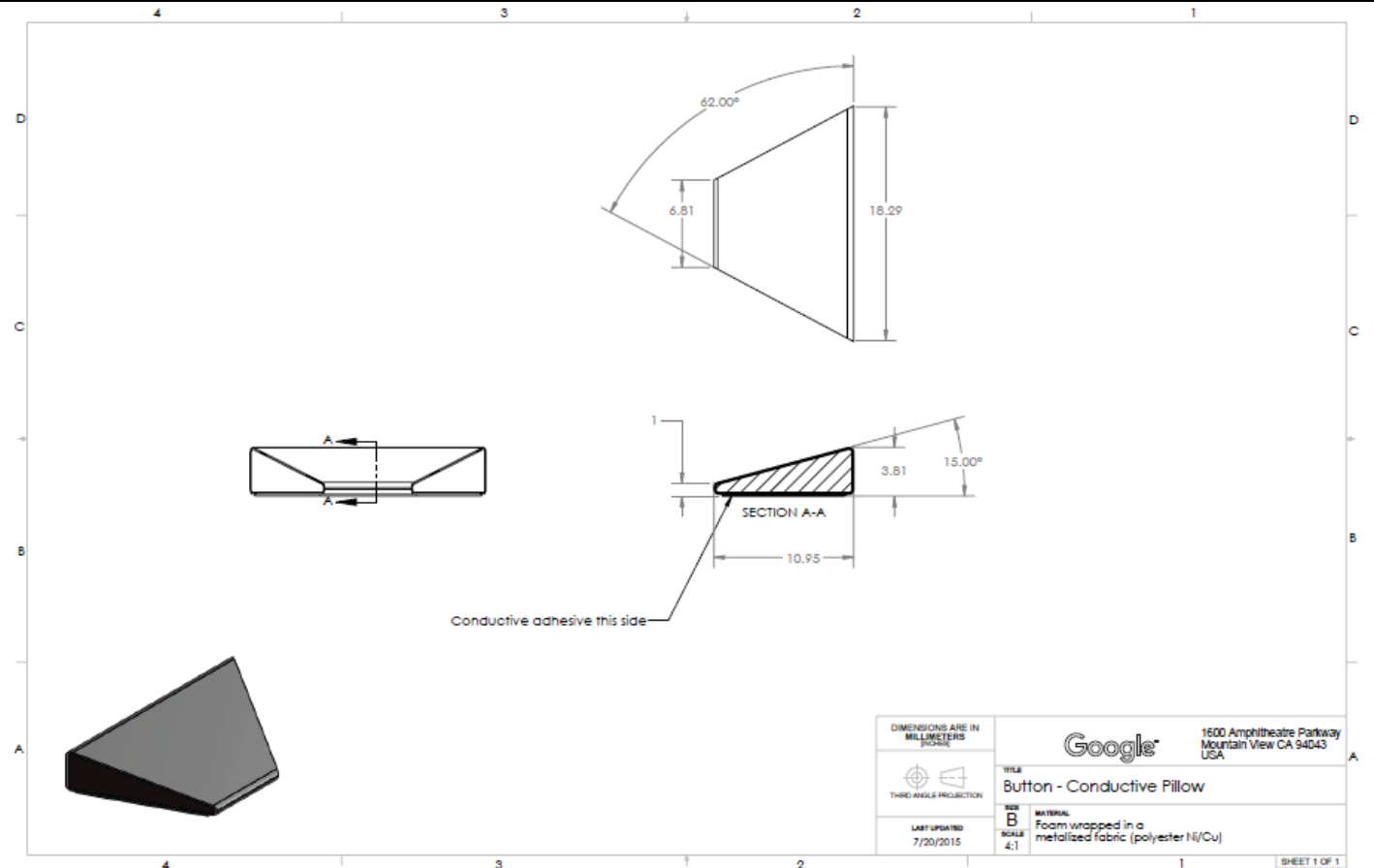
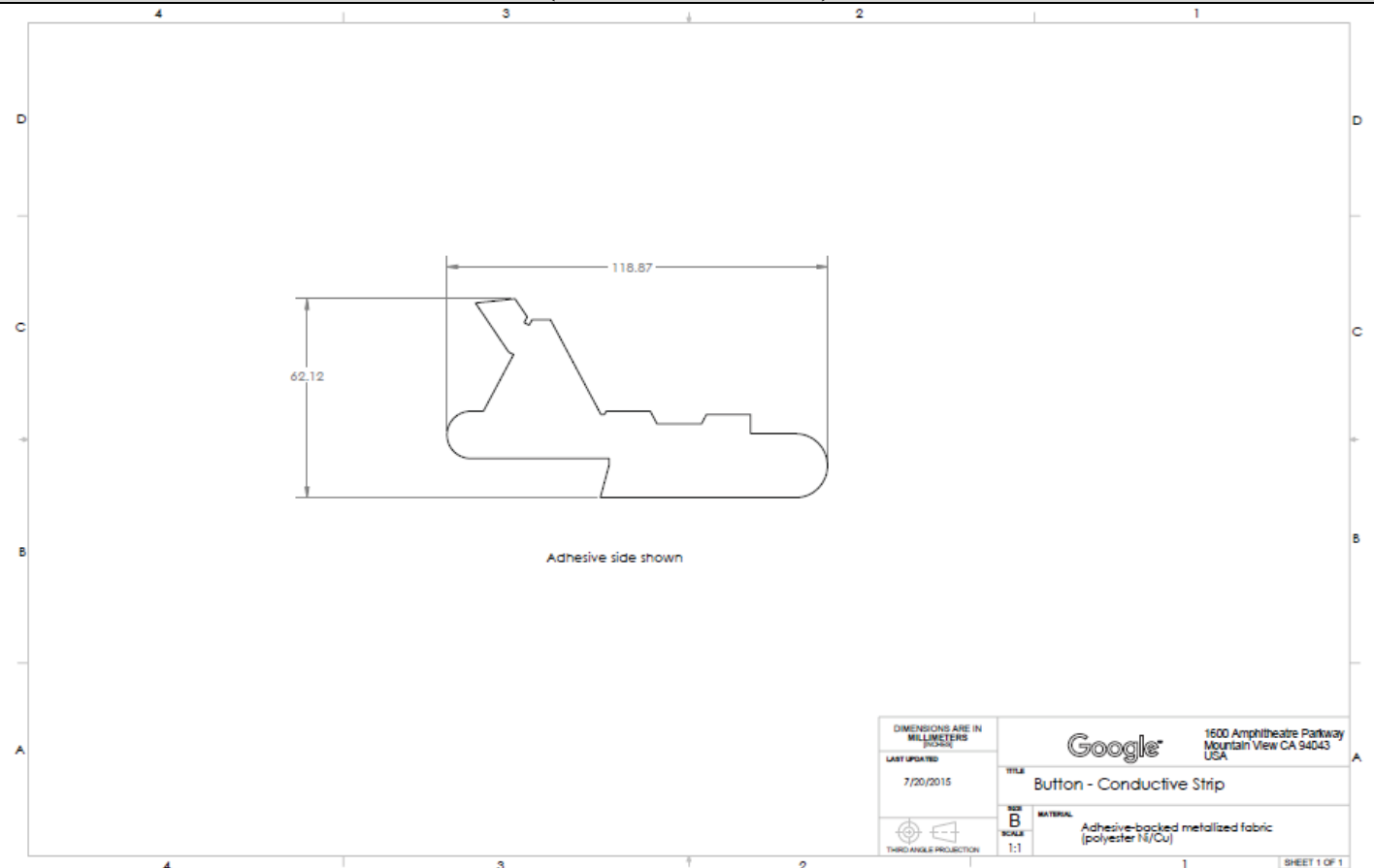


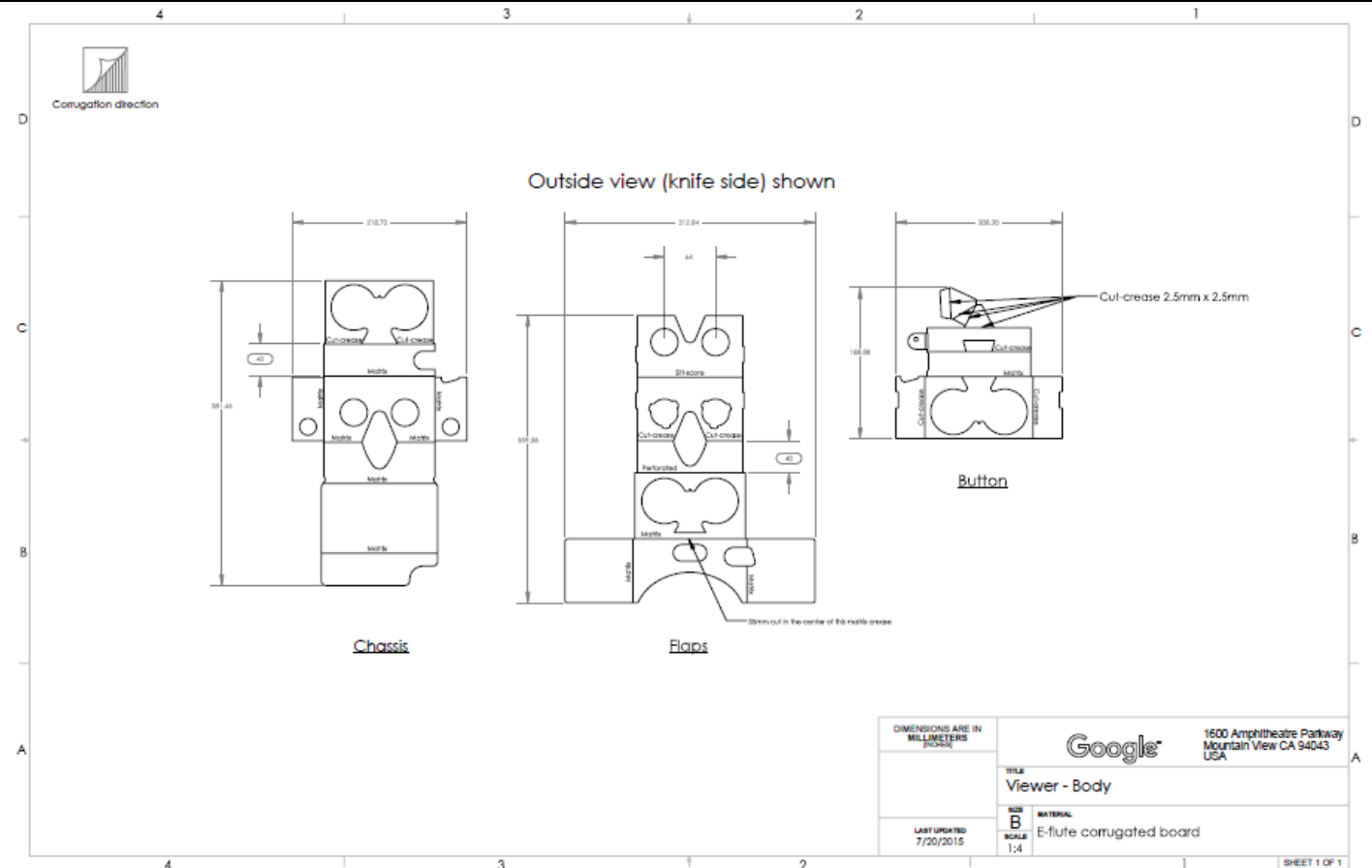
Figure 7. Cardboard button parts: (1) - "pillow", (2) - "hammer", (3) - "conductive strip"
Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).



Button – Conductive Pillow.pdf

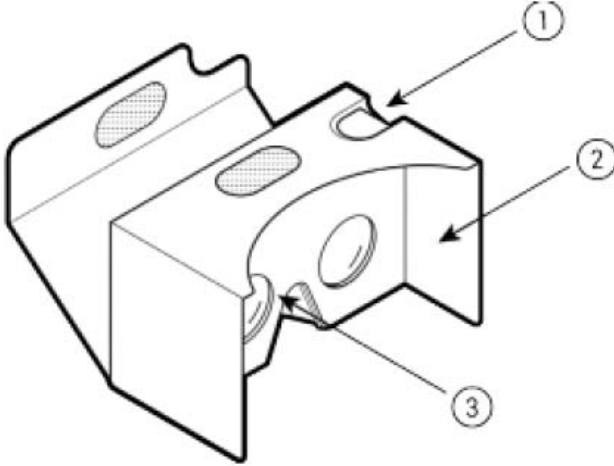


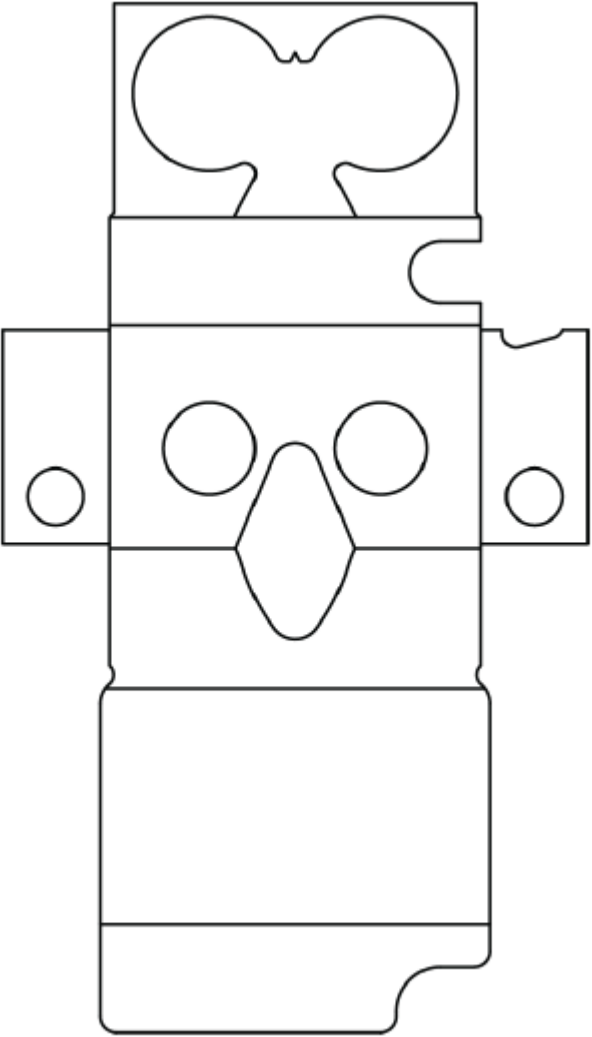
Button – Conductive Strip.pdf

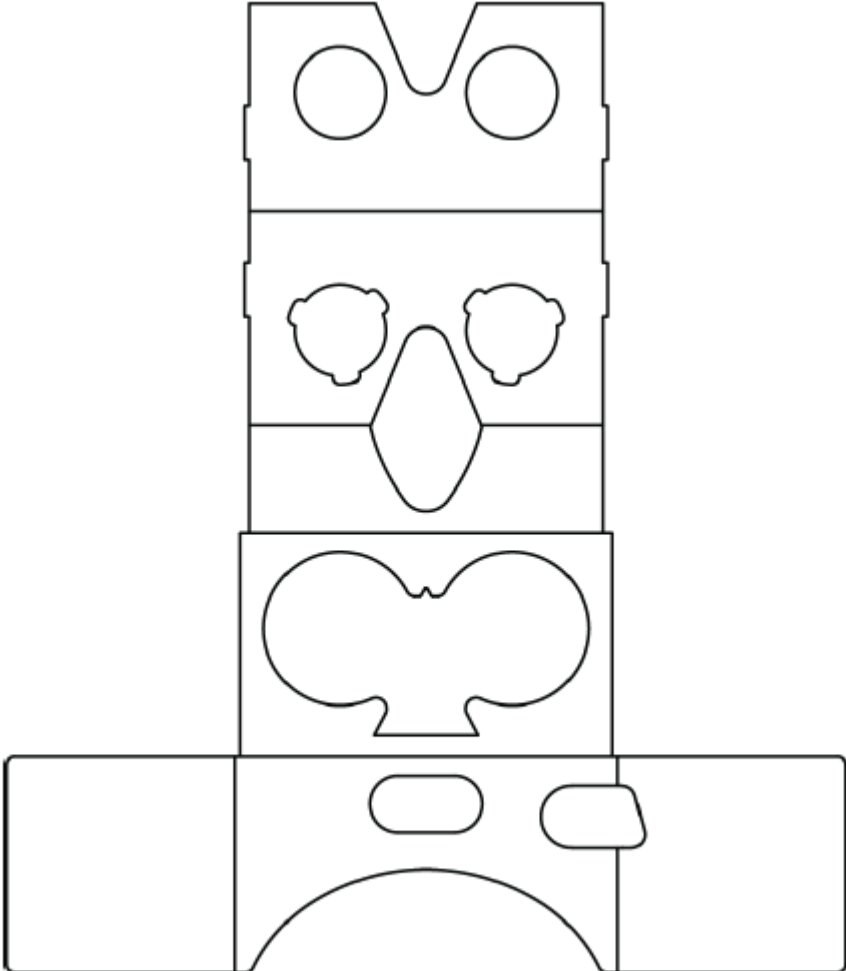


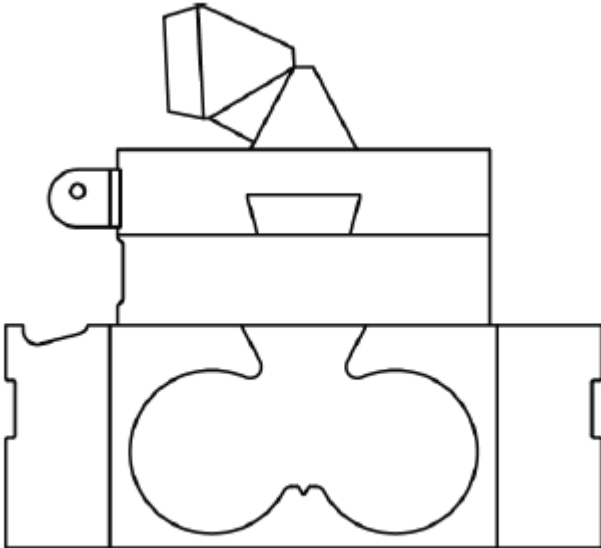
Viewer – Body.pdf

U.S. Patent No. 10,528,199 Claim 30	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
A virtual reality viewer for use with a mobile electronic device having a touchscreen, the viewer comprising:	<i>The Cardboard Viewers are virtual reality viewers for use with a mobile electronic device having a touchscreen.</i> See chart above. All charted Cardboard Viewers are identical (or substantially identical) for the purposes of the claim limitations.  GCV2 Physical Unit.

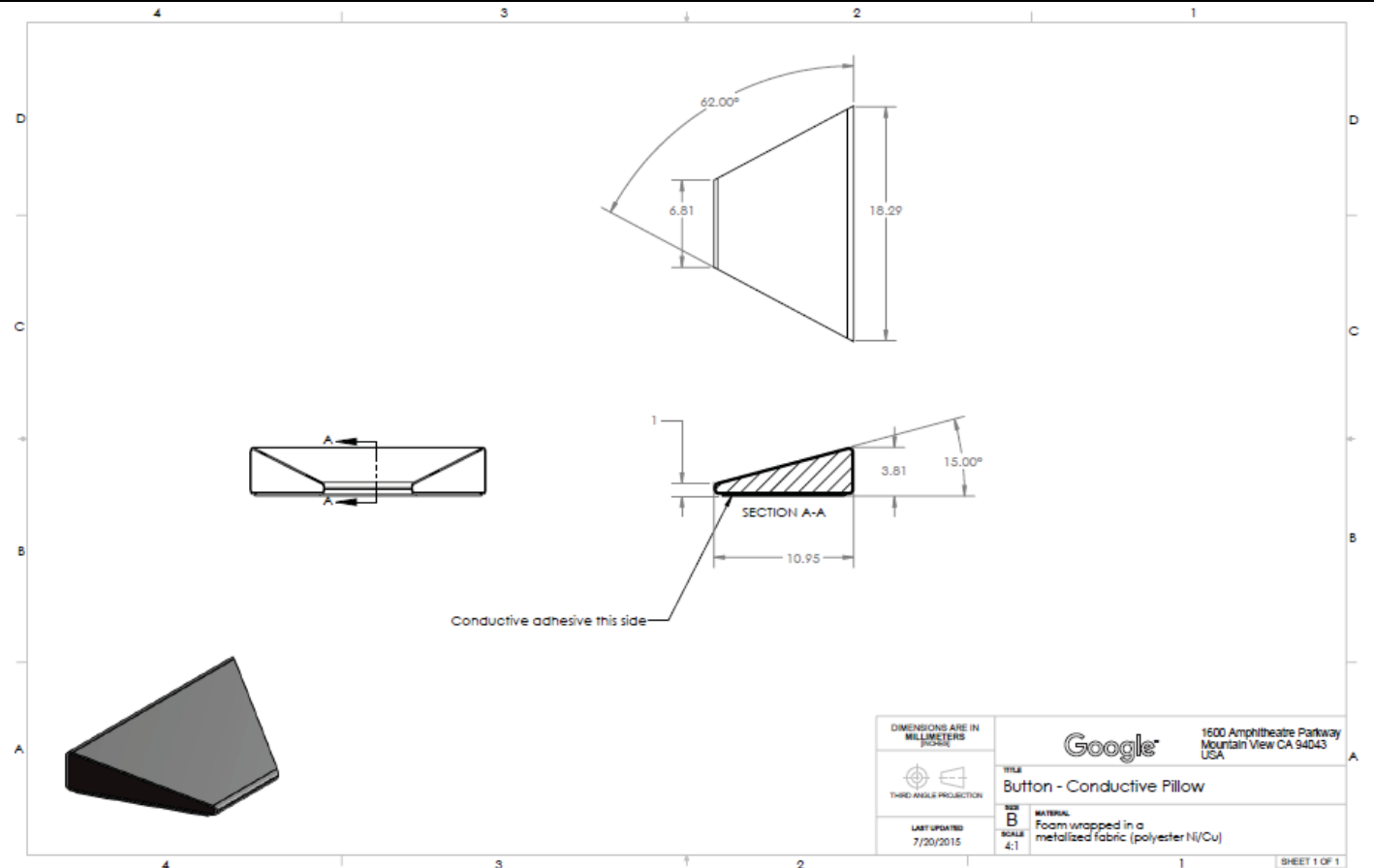
U.S. Patent No. 10,528,199 Claim 30	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 Figure 1. Typical components of a Google Cardboard viewer: (1) - input, (2) - enclosure, (3) - lenses. Google Cardboard Best Practices – Version 3.0 (2020). 3.2. Cardboard Mechanical Design Specifications Google Cardboard (I/O 2015) mechanical body consists of three distinct parts: chassis, t-shirt and button. Each of these parts is made from the corrugated cardboard.

U.S. Patent No. 10,528,199 Claim 30	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

U.S. Patent No. 10,528,199 Claim 30	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i>

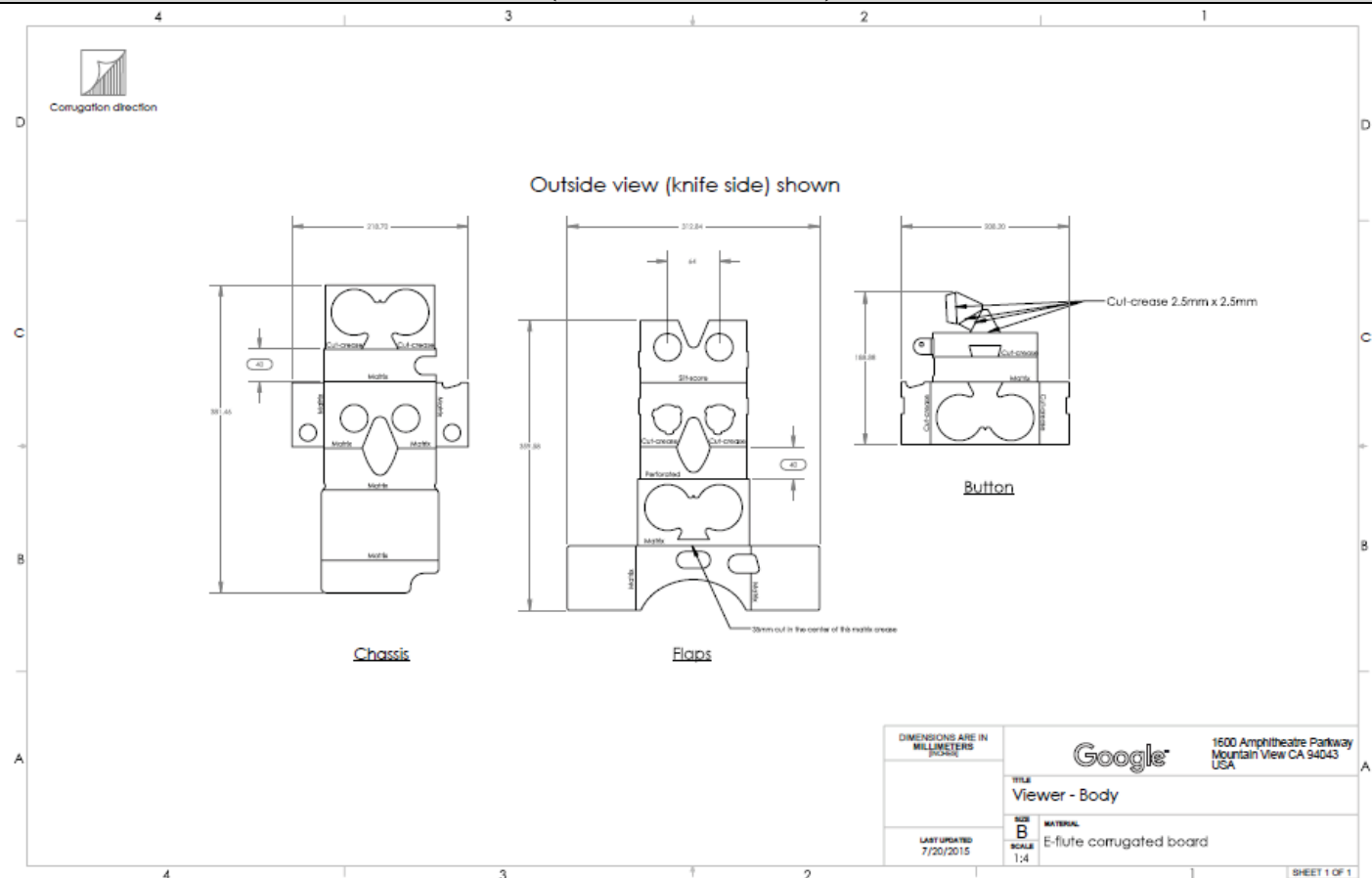
U.S. Patent No. 10,528,199 Claim 30	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")												
	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015). 4.1. Corrugate Tooling Verification The following critical dimensions should be verified for the corrugate tooling (e.g. die-cuts) before proceeding to production. For critical dimension illustrations (A, B, C) in Table 12 see the figures below. <table><tr><th>Parameters</th><th>Value</th><th>Unit</th><th>Note</th></tr><tr><td>Distance between two fold lines defining the thickness of Cardboard chassis</td><td>40 (+/-0.5)</td><td>mm</td><td>A, C</td></tr><tr><td>Distance between the centers of lens holders (IPD)</td><td>64 (+/-0.5)</td><td>mm</td><td>B</td></tr></table> <i>Table 13: Corrugate tooling verification specifications.</i>	Parameters	Value	Unit	Note	Distance between two fold lines defining the thickness of Cardboard chassis	40 (+/-0.5)	mm	A, C	Distance between the centers of lens holders (IPD)	64 (+/-0.5)	mm	B
Parameters	Value	Unit	Note										
Distance between two fold lines defining the thickness of Cardboard chassis	40 (+/-0.5)	mm	A, C										
Distance between the centers of lens holders (IPD)	64 (+/-0.5)	mm	B										

U.S. Patent No. 10,528,199 Claim 30	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)															
	4.3. Assembled First Article Verification The following distances are critically important for the final, assembled units. Inspect the first articles of the fully assembled viewers to ensure that these tolerances are respected. <table><tr><th>Parameters</th><th>Value</th><th>Tolerance</th><th>Unit</th><th></th></tr><tr><td>Distance from the back surface to the screen (see picture below)</td><td>37.3</td><td>+2/-0.5</td><td>mm</td><td>D</td></tr><tr><td>Distance between the centers of lens holders</td><td>64</td><td>+/-0.5</td><td>mm</td><td>B</td></tr></table> Table 15: Finished assembly tolerance specifications. 4.4. Additional First Article Approval Criteria After verifying that the critical tolerances in Table 13 hold for the first articles, ensure that the criteria described below hold for the assembled units. Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).	Parameters	Value	Tolerance	Unit		Distance from the back surface to the screen (see picture below)	37.3	+2/-0.5	mm	D	Distance between the centers of lens holders	64	+/-0.5	mm	B
Parameters	Value	Tolerance	Unit													
Distance from the back surface to the screen (see picture below)	37.3	+2/-0.5	mm	D												
Distance between the centers of lens holders	64	+/-0.5	mm	B												



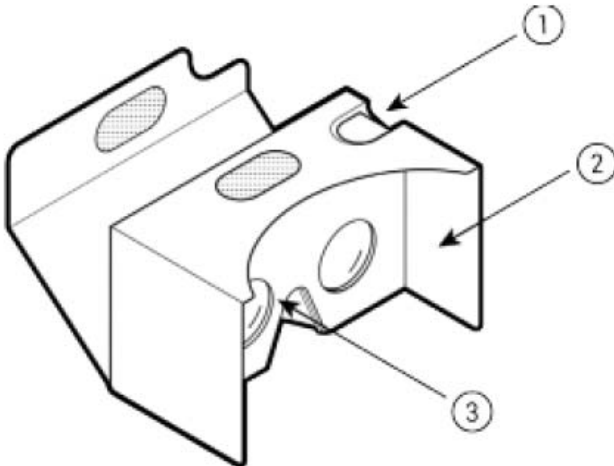
Button – Conductive Pillow.pdf

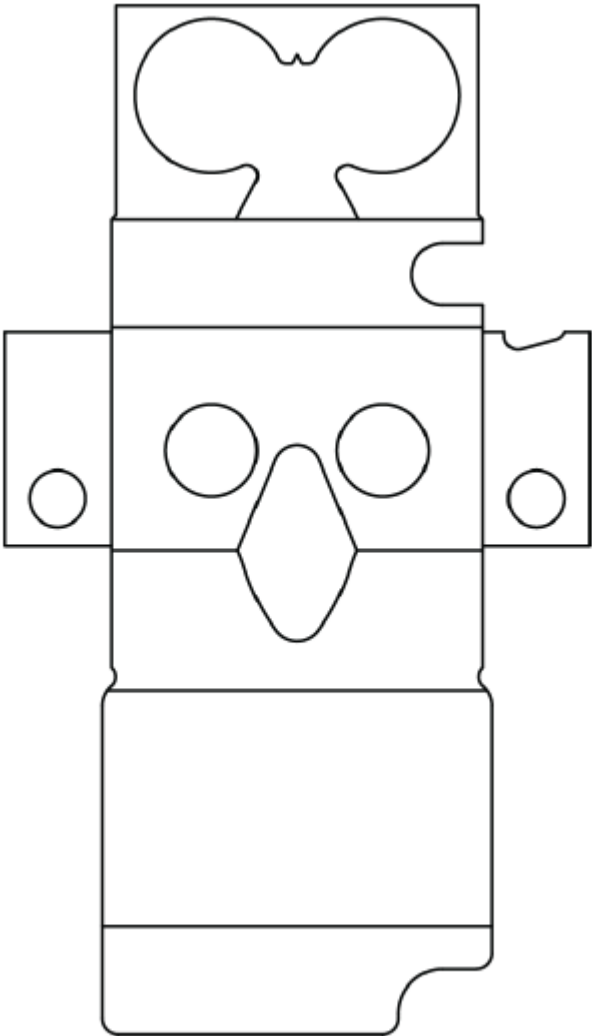
U.S. Patent No. 10,528,199 Claim 30	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
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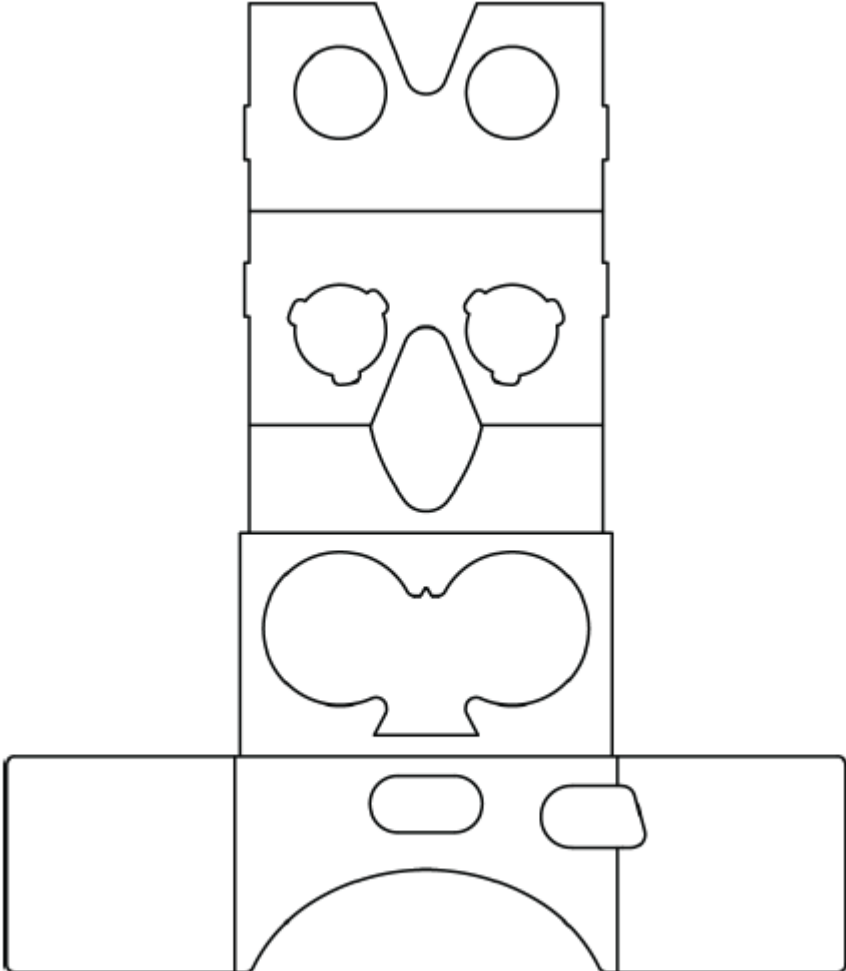


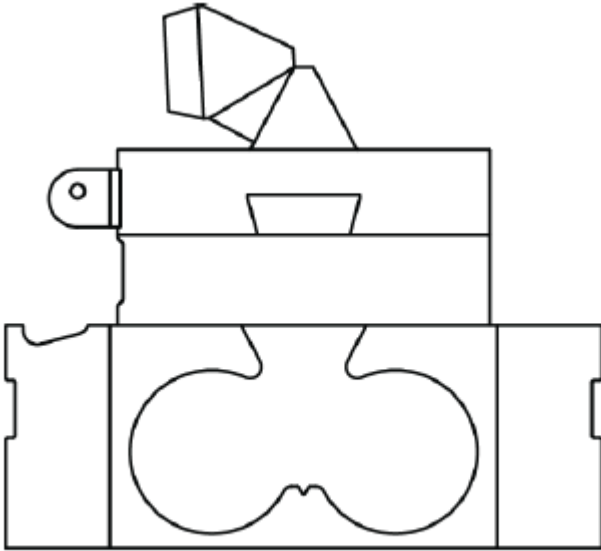
Viewer – Body.pdf

U.S. Patent No. 10,528,199 Claim 30	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
a first lens and a second lens, wherein the first lens is facing the same direction as the second lens, and wherein the first lens and the second lens are spaced apart in a horizontal direction;	<i>The Cardboard Viewers comprise a first lens and a second lens, wherein the first lens is facing the same direction as the second lens, and wherein the first lens and the second lens are spaced apart in a horizontal direction.</i>  GCV2 Physical Unit.

U.S. Patent No. 10,528,199 Claim 30	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 Figure 1. Typical components of a Google Cardboard viewer: (1) - input, (2) - enclosure, (3) - lenses. Google Cardboard Best Practices – Version 3.0 (2020). 3. Design Specifications This section provides the technical design specifications of Google Cardboard (I/O 2015 edition). It contains the detailed specifications for all major functional parts of Google Cardboard, including lenses, capacitive button, mechanical body, sleeve, oleophobic coating and printed artwork. Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015). 3.2. Cardboard Mechanical Design Specifications Google Cardboard (I/O 2015) mechanical body consists of three distinct parts: chassis, t-shirt and button. Each of these parts is made from the corrugated cardboard.

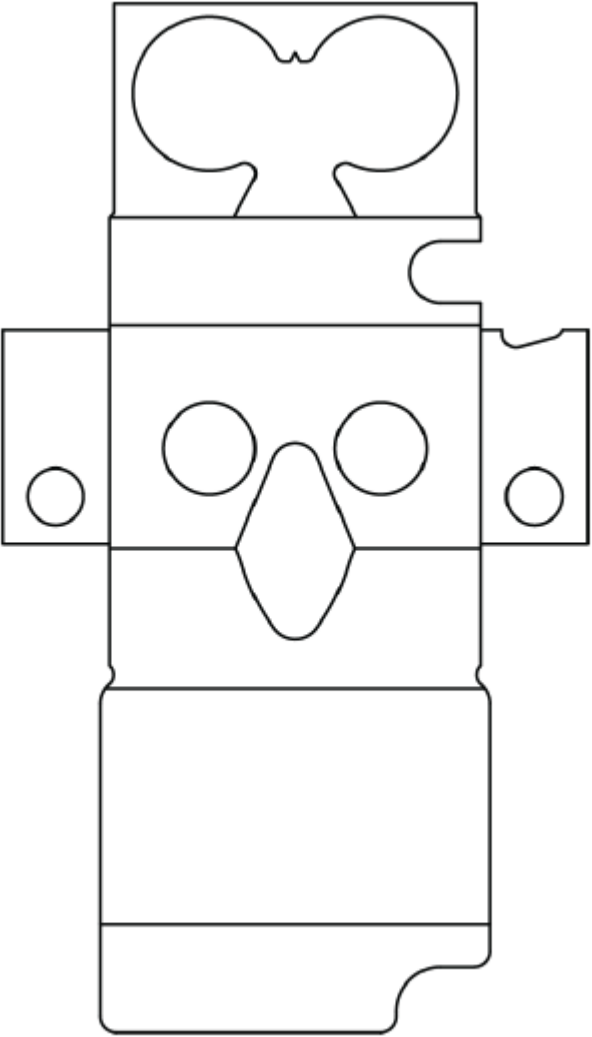
U.S. Patent No. 10,528,199 Claim 30	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

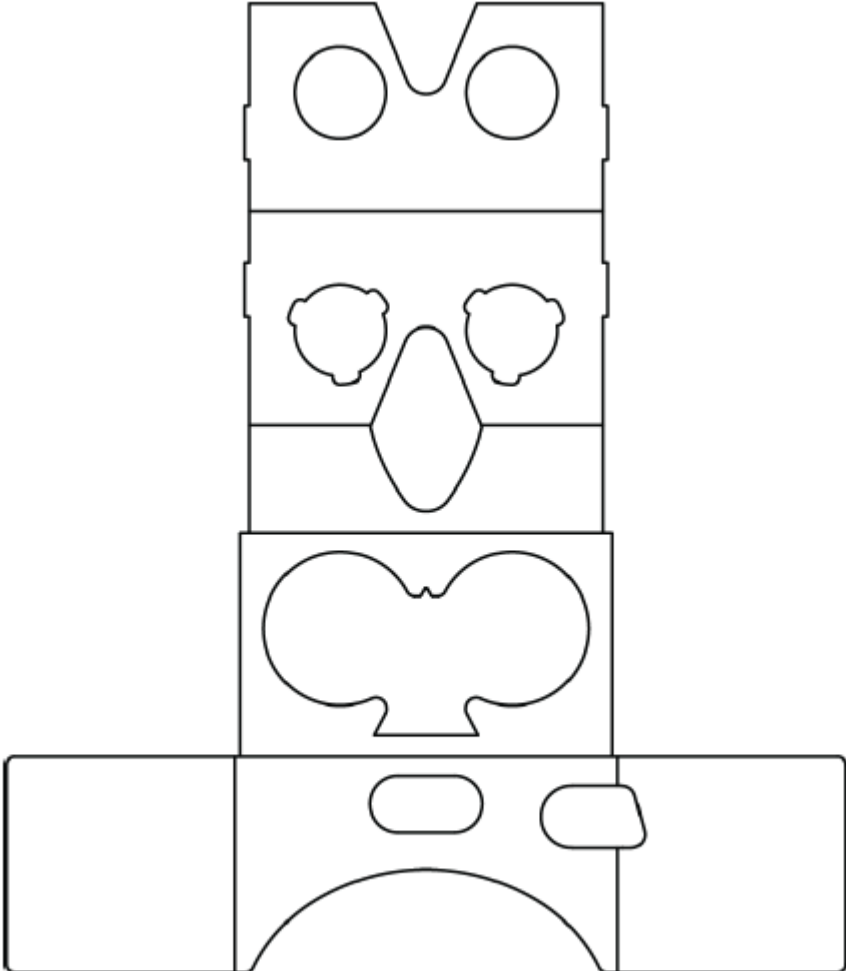
U.S. Patent No. 10,528,199 Claim 30	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i>

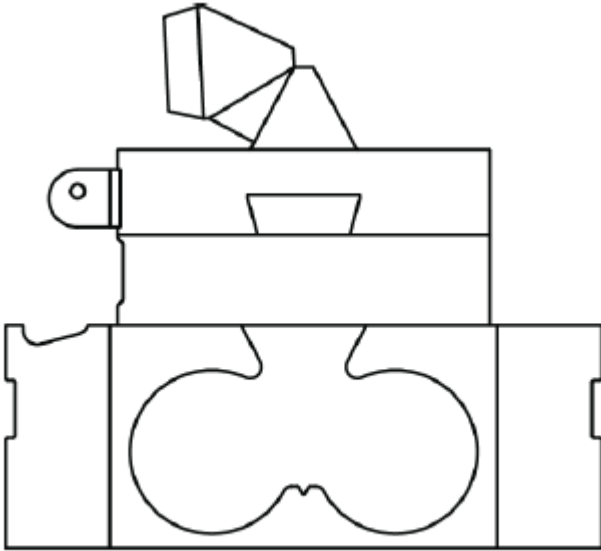
U.S. Patent No. 10,528,199 Claim 30	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

U.S. Patent No. 10,528,199 Claim 30	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
a frame having a first side and a second side opposite the first side, the first side configured to hold the first lens and the second lens, the second side configured to receive the mobile electronic device, wherein the frame is configured to hold the mobile electronic device such that the mobile electronic device is generally centered in a horizontal direction and directly in a user’s field of view when looking through the first side of the frame; and	<i>The Cardboard Viewers comprise a frame having a first side and a second side opposite the first side, the first side configured to hold the first lens and the second lens, the second side configured to receive the mobile electronic device.</i> GCV2 Physical Unit. Figure 1. Typical components of a Google Cardboard viewer: (1) - input, (2) - enclosure, (3) - lenses. Google Cardboard Best Practices – Version 3.0 (2020).

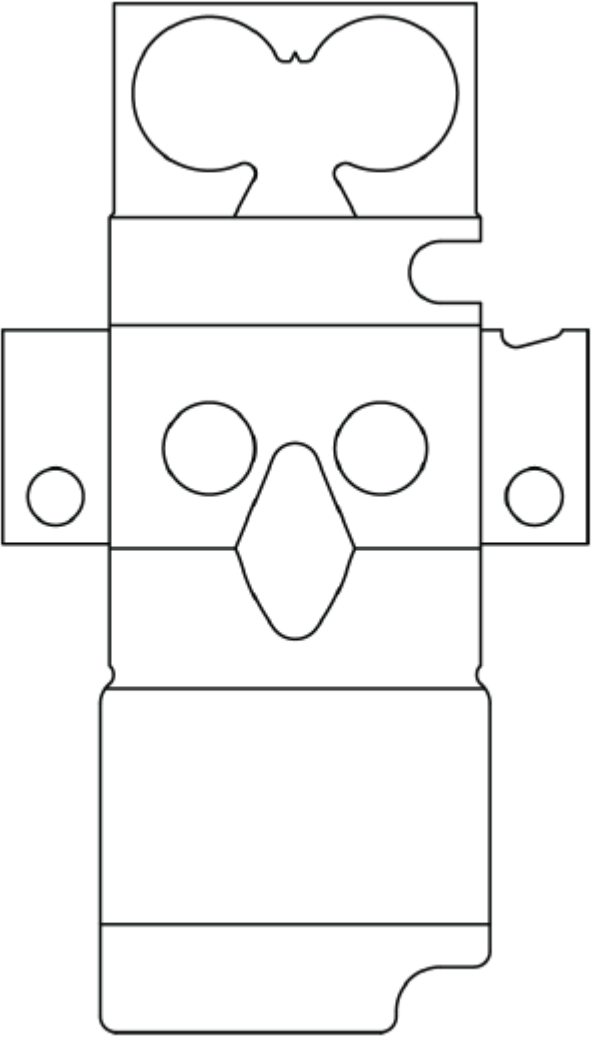
U.S. Patent No. 10,528,199 Claim 30	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	3. Design Specifications This section provides the technical design specifications of Google Cardboard (I/O 2015 edition). It contains the detailed specifications for all major functional parts of Google Cardboard, including lenses, capacitive button, mechanical body, sleeve, oleophobic coating and printed artwork. Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015). 3.2. Cardboard Mechanical Design Specifications Google Cardboard (I/O 2015) mechanical body consists of three distinct parts: chassis, t-shirt and button. Each of these parts is made from the corrugated cardboard.

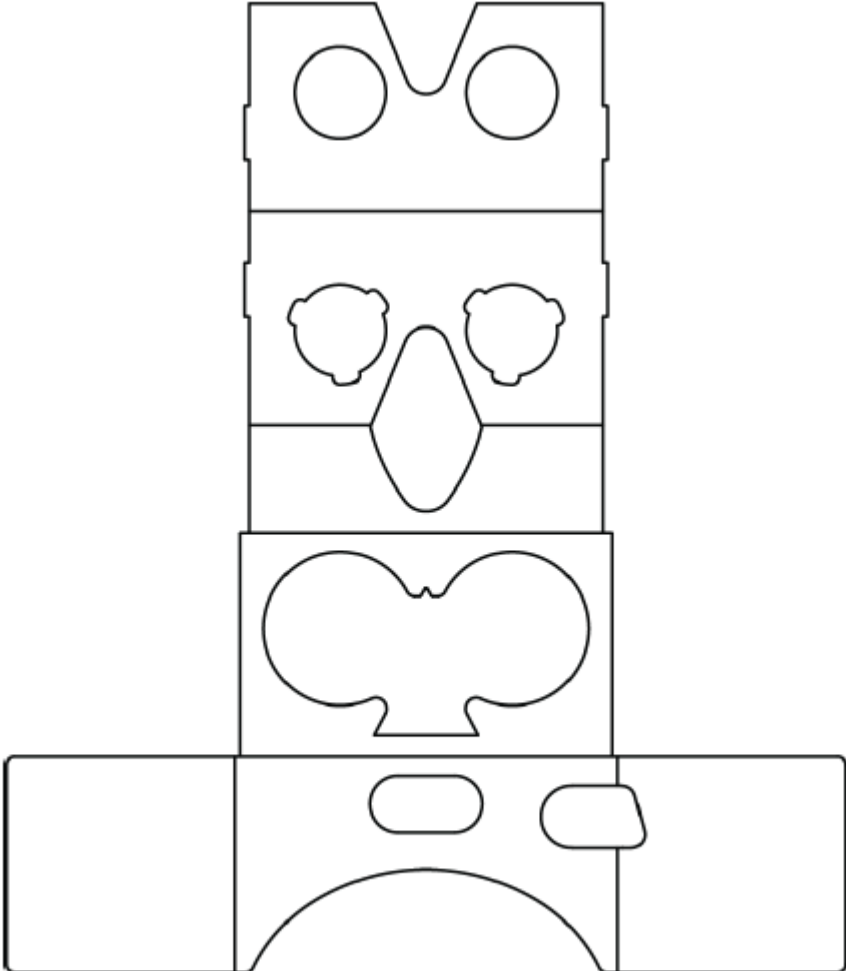
U.S. Patent No. 10,528,199 Claim 30	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

U.S. Patent No. 10,528,199 Claim 30	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i>

U.S. Patent No. 10,528,199 Claim 30	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

U.S. Patent No. 10,528,199 Claim 30	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	<i>The frame is configured to hold the mobile electronic device such that the mobile electronic device is generally centered in a horizontal direction and directly in a user's field of view when looking through the first side of the frame.</i>  GCV2 Physical Unit. 3.2. Cardboard Mechanical Design Specifications Google Cardboard (I/O 2015) mechanical body consists of three distinct parts: chassis, t-shirt and button. Each of these parts is made from the corrugated cardboard.

U.S. Patent No. 10,528,199 Claim 30	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

U.S. Patent No. 10,528,199 Claim 30	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

U.S. Patent No. 10,528,199 Claim 30	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	3. The conductive pillow should be centered within the phone-facing apertures, and the bottom edge of the conductive pillow should be lined up with the corresponding cardboard edge. Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

U.S. Patent No. 10,528,199 Claim 30	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
a touchscreen input that is coupled to the user input and generally centered between the first lens and the second lens in the horizontal direction, wherein the touchscreen has a surface such that only a portion of the surface of the touchscreen input is configured to contact a central region of the touchscreen when the user input is in the second position.	<i>The Cardboard Viewers comprise a touchscreen input that is coupled to the user input and generally centered between the first lens and the second lens in the horizontal direction.</i> GCV2 Physical Unit. The touchscreen input of the Cardboard Viewers is the "pillow" - and, specifically, the metalized fabric that encases the "pillow" and faces the touchscreen of an electronic device(in red). See also annotated supplement. The portion of the surface of the touchscreen input of the Cardboard Viewers is the surface of the "pillow" that makes contact with the touchscreen (in blue). See also annotated supplement. 3.2. Cardboard Mechanical Design Specifications Google Cardboard (I/O 2015) mechanical body consists of three distinct parts: chassis, t-shirt and button. Each of these parts is made from the corrugated cardboard.

U.S. Patent No. 10,528,199 Claim 30	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	<i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015). 3. The conductive pillow should be centered within the phone-facing apertures, and the bottom edge of the conductive pillow should be lined up with the corresponding cardboard edge. Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

U.S. Patent No. 10,528,199
Claim 30

GOOGLE CARDBOARD GCV2 VR VIEWER
(“Cardboard Viewer”)

Only a portion of the surface of the touchscreen input is configured to contact a central region of the touchscreen when the user input is in the second position.



GCV2 Physical Unit.

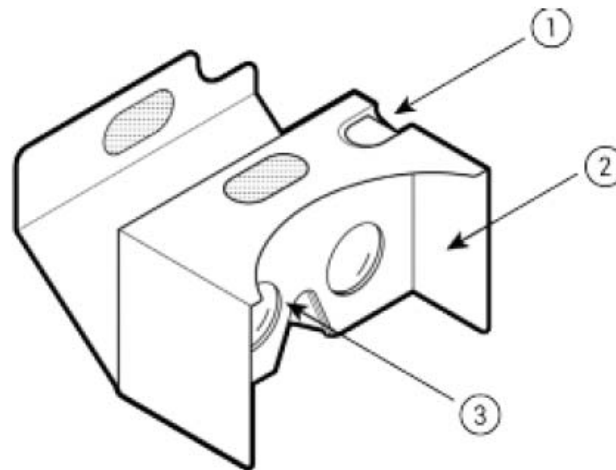


Figure 1. Typical components of a Google Cardboard viewer: (1) - input, (2) - enclosure, (3) - lenses.

Google Cardboard Best Practices – Version 3.0 (2020).

U.S. Patent No. 10,528,199 Claim 30	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	3.2. Cardboard Mechanical Design Specifications Google Cardboard (I/O 2015) mechanical body consists of three distinct parts: chassis, t-shirt and button. Each of these parts is made from the corrugated cardboard. <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015). 3.3. Button Specifications: Conductive Strip and Pillow Google Cardboard (I/O 2015) button consists of two conductive parts ("pillow" and "strip"), glued to a cardboard-based "hammer".

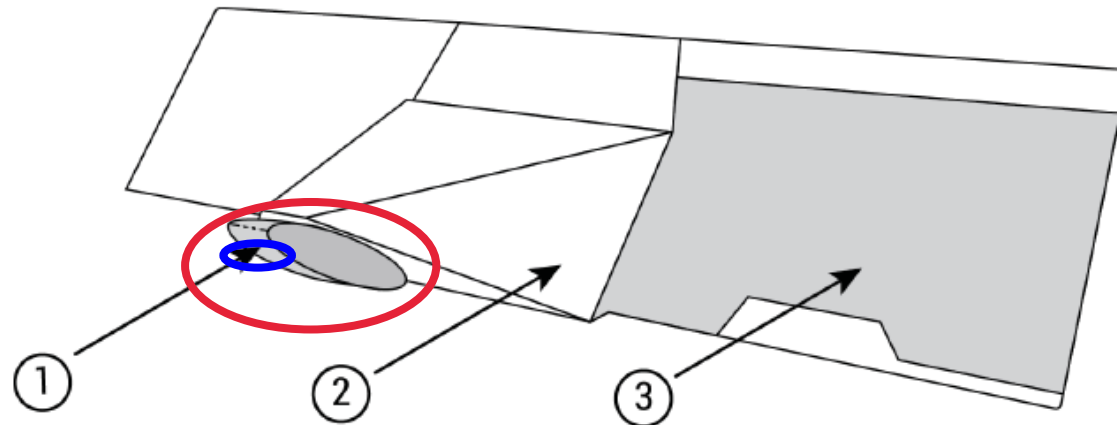


Figure 7. Cardboard button parts: (1) - "pillow", (2) - "hammer", (3) - "conductive strip"

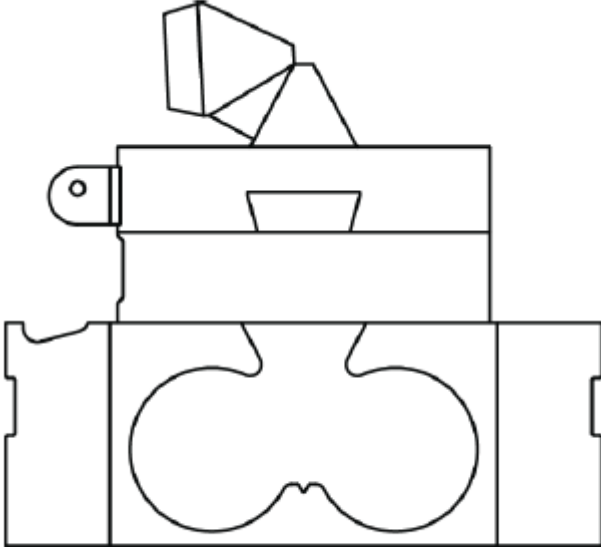
3.3.1. Conductive Strip Specifications

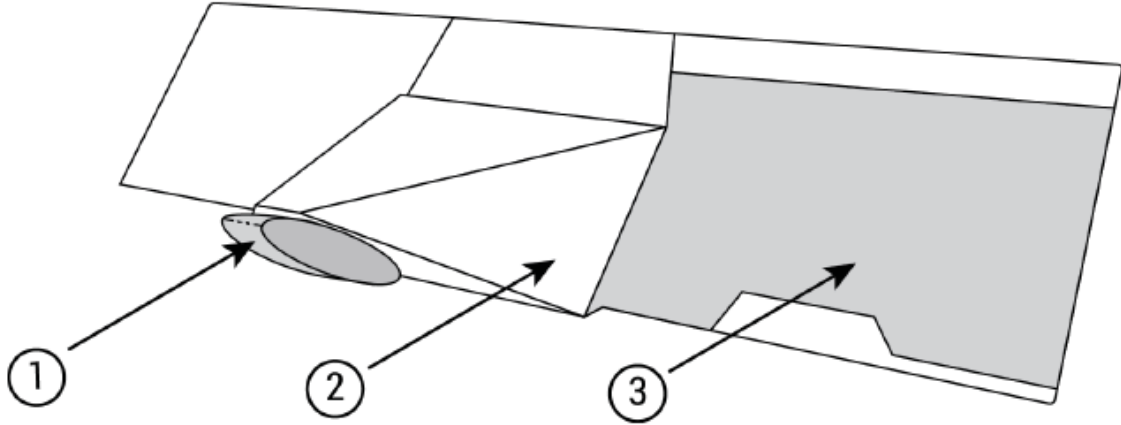
Parameters	Value	Unit
Material	Metallized fabric (polyester Ni/Cu)	
Surface resistivity	< 0.03	$\Omega/\text{sq.}$
Z-axis resistance	< 0.03	Ω

Table 6. Conductive strip specifications.

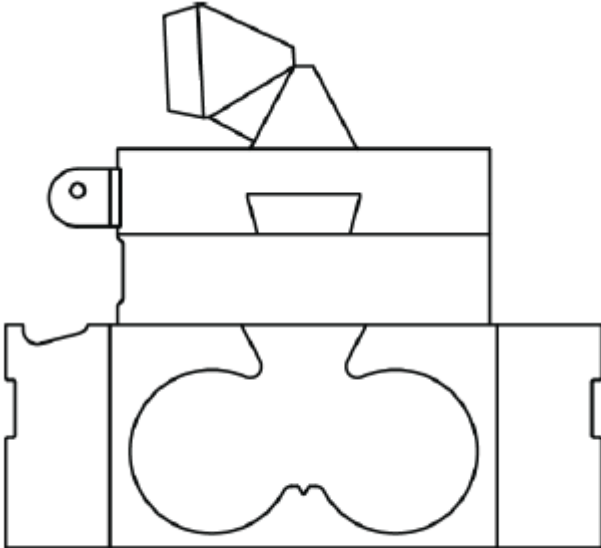
U.S. Patent No. 10,528,199 Claim 30	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)		
	<u>3.3.2. Conductive Pillow Specifications</u>		
	Parameters	Value	Unit
	Surface material	Metallized fabric (polyester Ni/Cu)	
	Core material	Soft urethane foam	
	Core surface resistivity	< 0.07	Ω/sq.
	PSA type	Conductive	
	PSA Z-axis resistance	< 0.05	Ω
	Table 7. Conductive pillow specifications. Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).		

U.S. Patent No. 10,528,199 Claim 38	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
The virtual reality viewer of claim 30, wherein said user input is a tactile user input.	<i>The user input of the Cardboard Viewers is a tactile user input.</i> GCV2 Physical Unit. Figure 1. Typical components of a Google Cardboard viewer: (1) - input, (2) - enclosure, (3) - lenses. Google Cardboard Best Practices – Version 3.0 (2020).

U.S. Patent No. 10,528,199 Claim 38	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	If you're using a conductive input which passes user's body charge onto the smartphone screen, ensure that the input is not touching the screen in a "non-pressed" state. Magnet Input: We no longer recommend magnet-based inputs as they tend to work less reliably than conductive or capacitive inputs due to magnetometer variance within smartphones. Google Cardboard Best Practices – Version 3.0 (2020). 3.2. Cardboard Mechanical Design Specifications Google Cardboard (I/O 2015) mechanical body consists of three distinct parts: chassis, t-shirt and button. Each of these parts is made from the corrugated cardboard.  <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

U.S. Patent No. 10,528,199 Claim 38	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	3.3. Button Specifications: Conductive Strip and Pillow Google Cardboard (I/O 2015) button consists of two conductive parts ("pillow" and "strip"), glued to a cardboard-based "hammer".  <i>Figure 7. Cardboard button parts: (1) - "pillow", (2) - "hammer", (3) - "conductive strip"</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

U.S. Patent No. 10,528,199 Claim 39	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
The virtual reality viewer of claim 38, wherein said tactile input is a depressible button.	<i>The tactile input of the Cardboard Viewers is a depressible button.</i> GCV2 Physical Unit. Figure 1. Typical components of a Google Cardboard viewer: (1) - input, (2) - enclosure, (3) - lenses. Google Cardboard Best Practices – Version 3.0 (2020).

U.S. Patent No. 10,528,199 Claim 39	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	If you're using a conductive input which passes user's body charge onto the smartphone screen, ensure that the input is not touching the screen in a "non-pressed" state. Google Cardboard Best Practices – Version 3.0 (2020). 3.2. Cardboard Mechanical Design Specifications Google Cardboard (I/O 2015) mechanical body consists of three distinct parts: chassis, t-shirt and button. Each of these parts is made from the corrugated cardboard.  <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015). 3.3. Button Specifications: Conductive Strip and Pillow Google Cardboard (I/O 2015) button consists of two conductive parts ("pillow" and "strip"), glued to a cardboard-based "hammer".

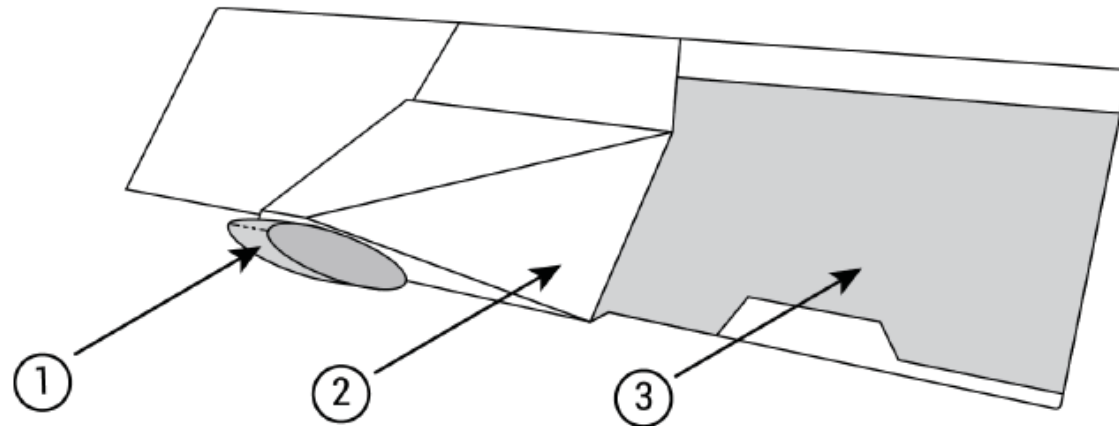


Figure 7. Cardboard button parts: (1) - "pillow", (2) - "hammer", (3) - "conductive strip"
Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

2. The button should be easily pushable down. After releasing it should spring back.
Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).