

Exhibit 1 – Cardboard Viewer Accused Instrumentalities Claim Chart For United States Patent 9,420,075

Accused Products (“Cardboard Viewers”):

Google V2 Cardboard Virtual Reality Headset (aka GCV2)	Google Cardboard Google  BUY  \$15.00 
Landsberg (aka Orora) V2 Cardboard Virtual Reality Viewer	Landsberg V2 Landsberg  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

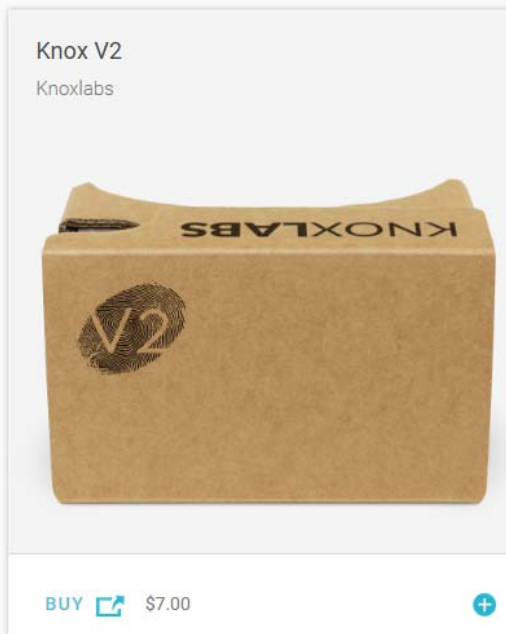
Irusu



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



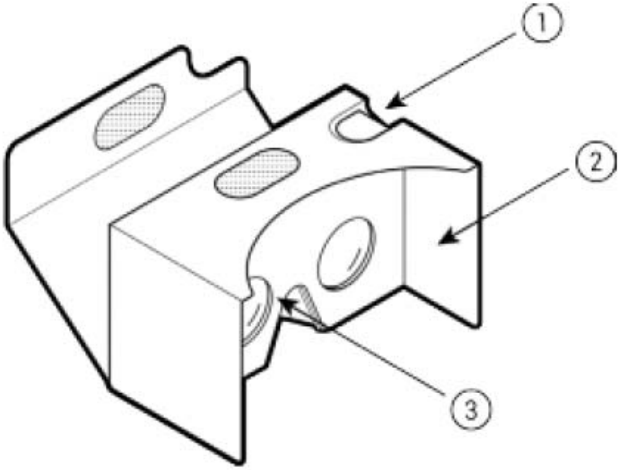
BUY  \$18.85



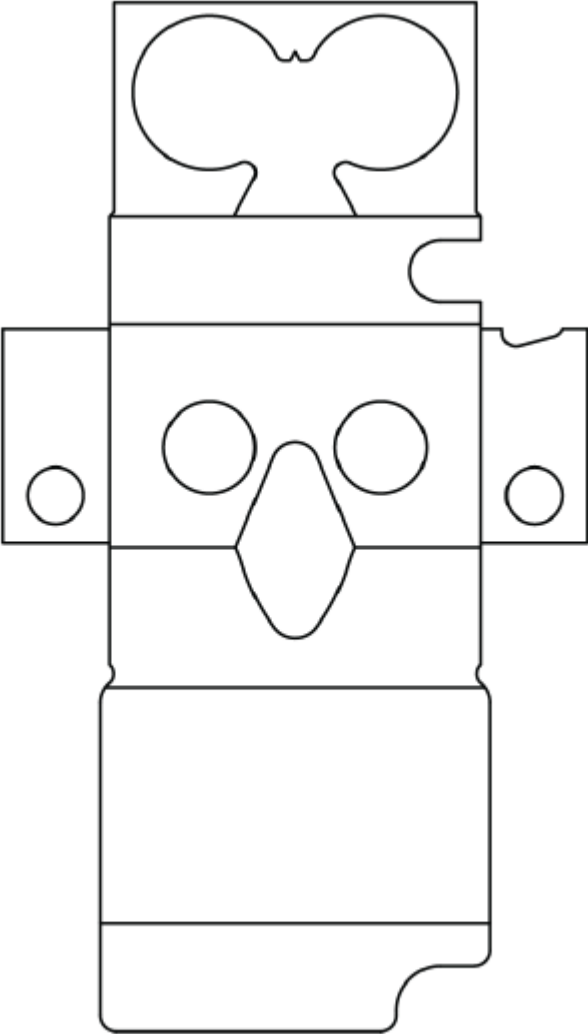
Asserted Claims (all Cardboard Viewers):

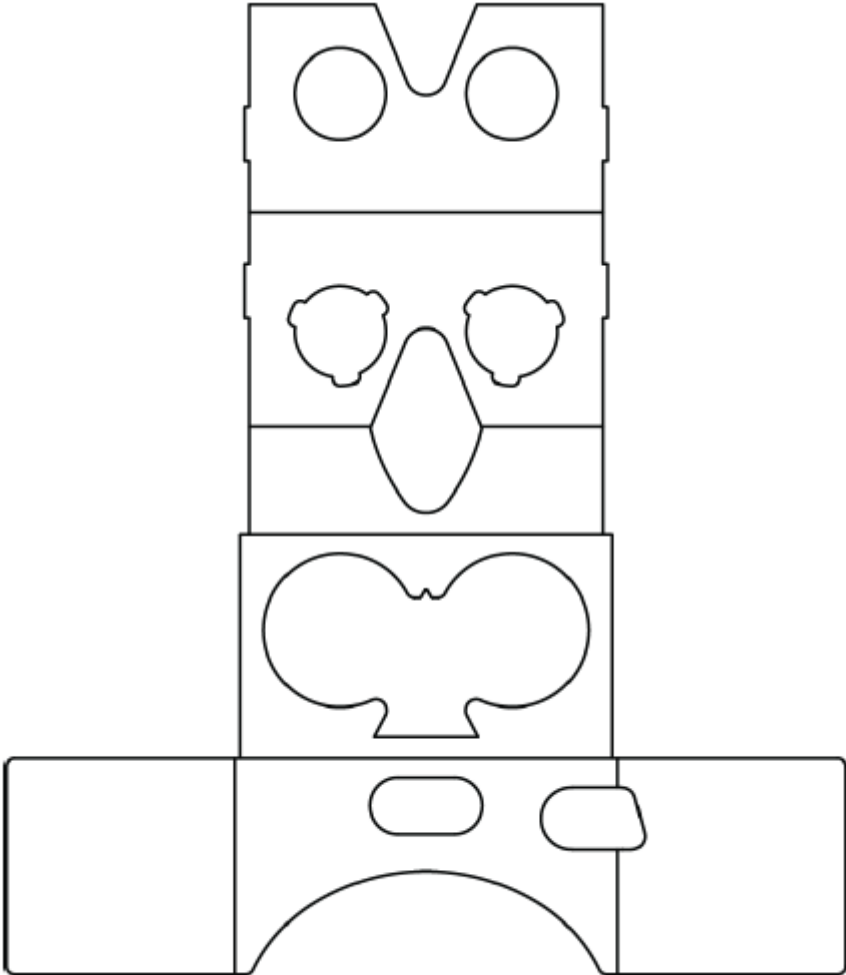
Claim 4 (depending from Claims 1 and 3);
Claim 5 (depending from Claim 1);
Claim 7 (depending from Claims 1 and 6);
Claim 9 (depending from Claims 1, 6 and 8);
Claim 11 (depending from Claims 1, 6 and 10);
Claim 14 (depending from Claims 1 and 12);
Claim 18 (independent);
Claim 19 (depending from Claim 18); and
Claim 20 (independent).

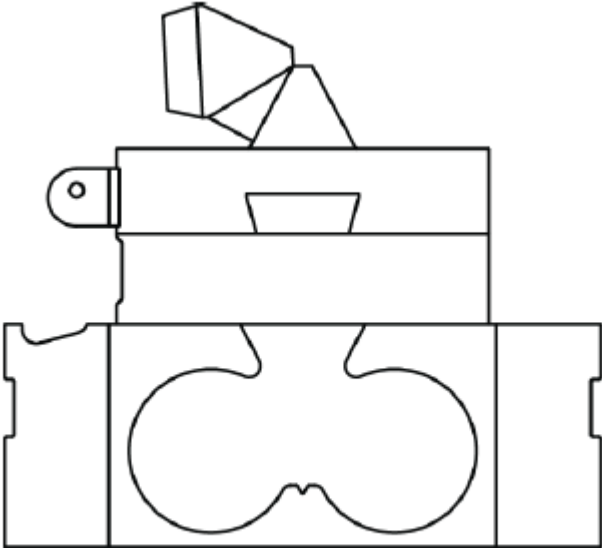
U.S. Patent No. 9,420,075 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
A virtual reality viewer for use with a mobile electronic device having a touch-screen, the viewer comprising:	<i>The Cardboard Viewers are virtual reality viewers for use with a mobile electronic device having a touch screen (e.g., "smartphone").</i> See chart above. All charted Cardboard Viewers are identical (or substantially identical) for the purposes of the claim limitations. 

U.S. Patent No. 9,420,075 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</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). 3.2. 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.

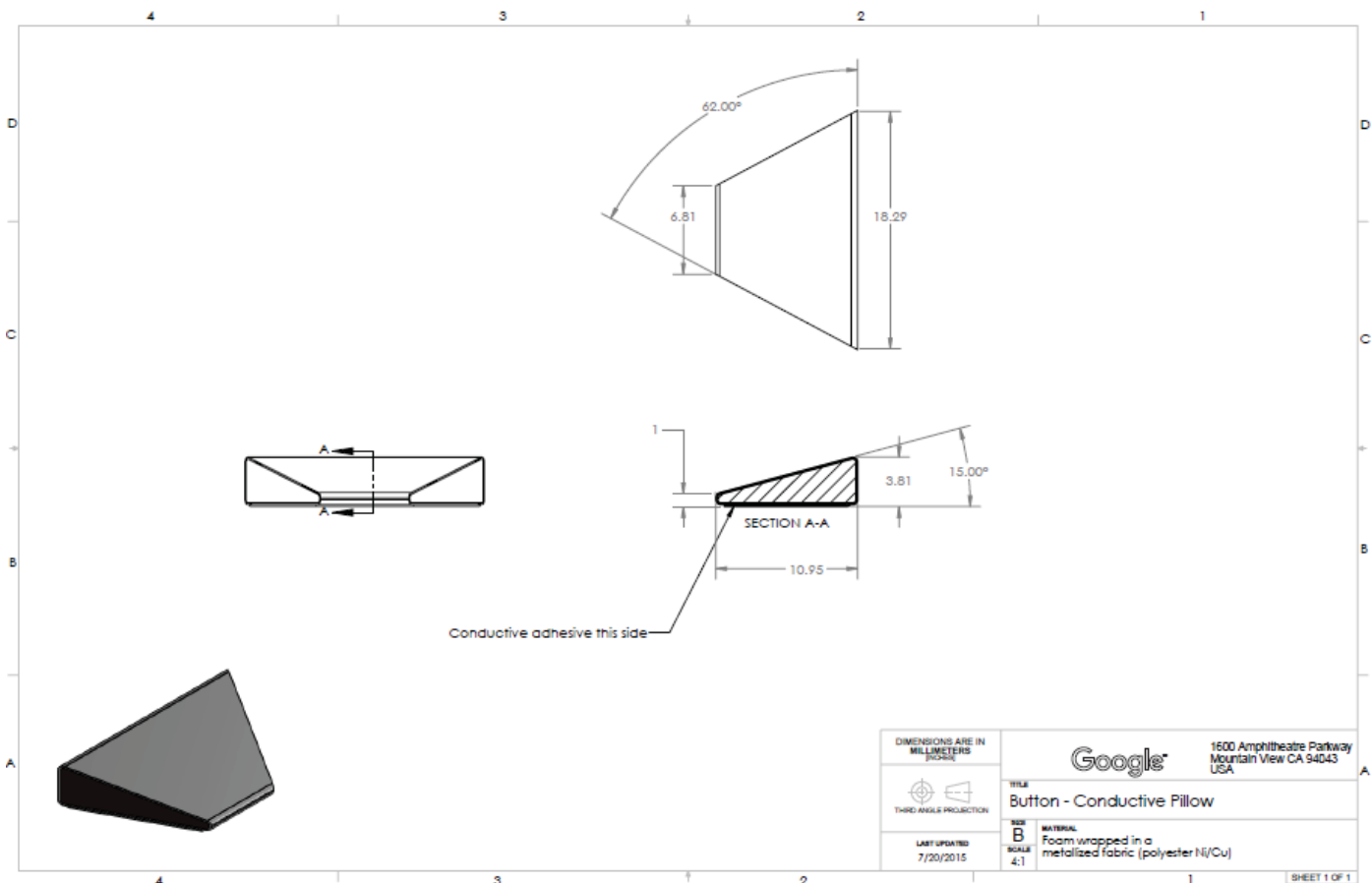
U.S. Patent No. 9,420,075 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER (“<i>Cardboard Viewer</i>”)

U.S. Patent No. 9,420,075 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

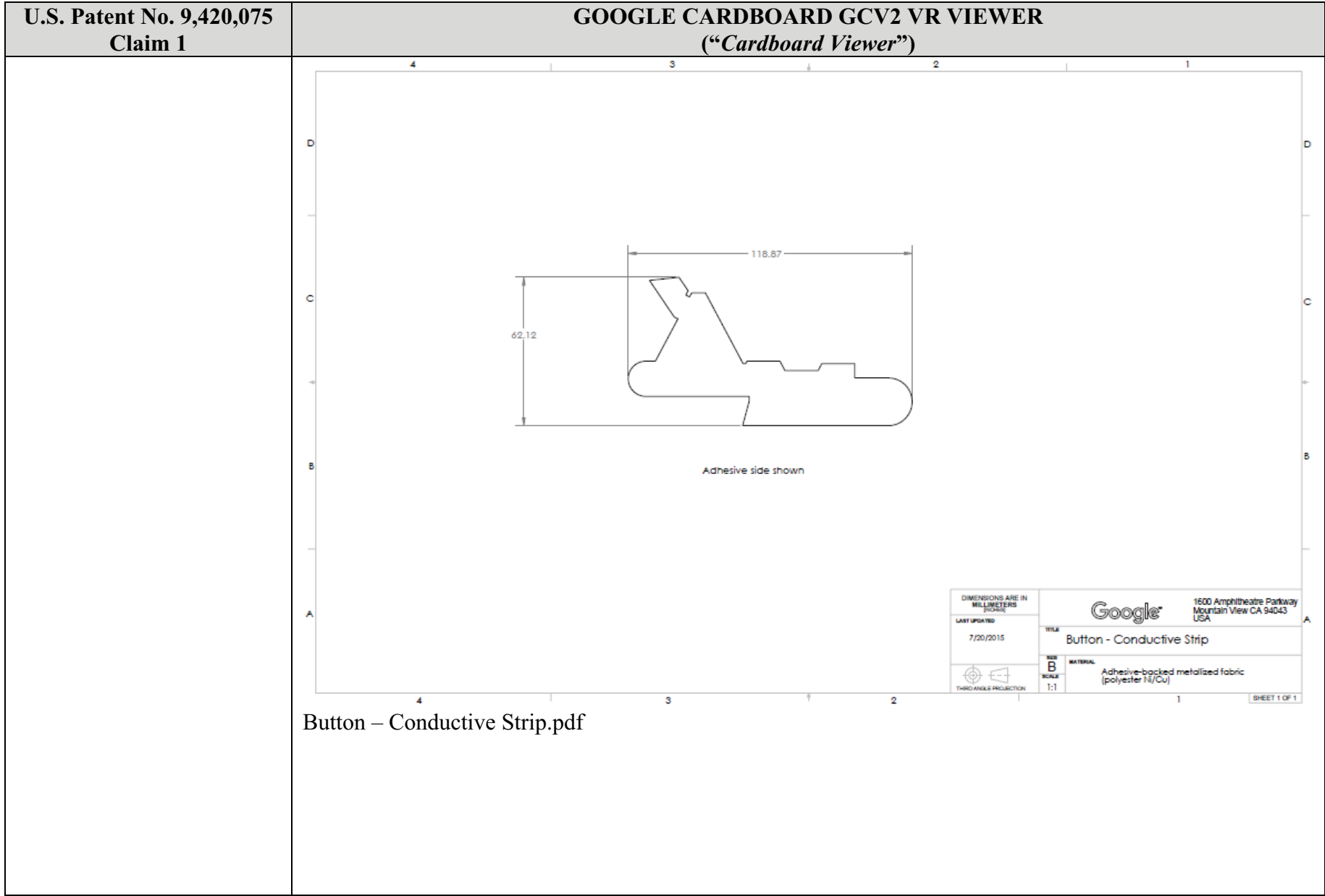
U.S. Patent No. 9,420,075 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i>

U.S. Patent No. 9,420,075 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

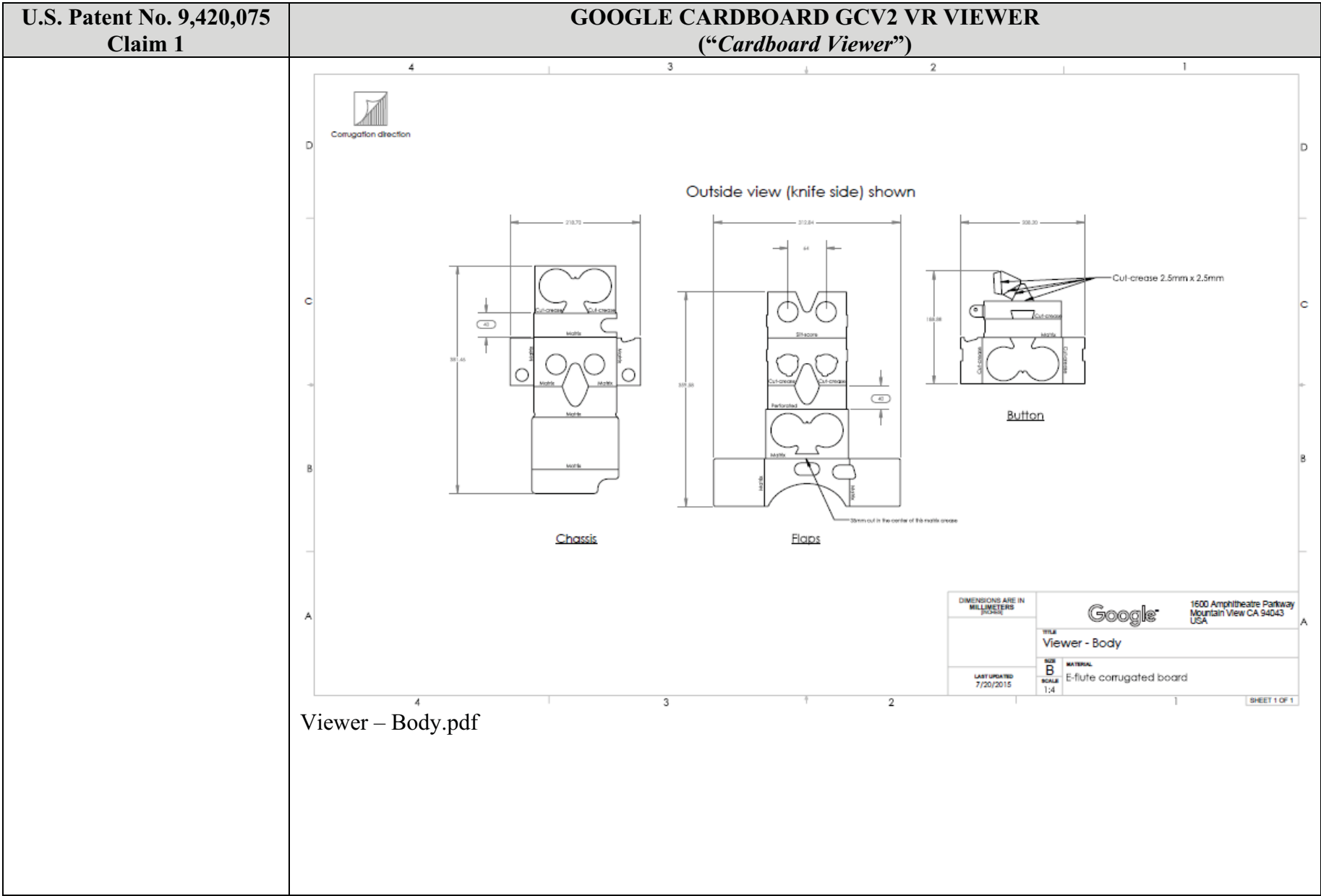
U.S. Patent No. 9,420,075 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")																											
	4.1. Corrugate Tooling Verification The following critical dimensions should be verified for the corrugate tooling (e.g. die-cuts) before proceeding to production. For critical dimension 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> Table 13: Corrugate tooling verification specifications. 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	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	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
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	 The technical drawing illustrates a 'Button - Conductive Pillow' through several views and dimensions: Top View: Shows a trapezoidal shape with a width of 18.29 at the right edge and a height of 6.81. An angle of 62.00° is indicated between the top and right edges. Side View: Shows a cross-section with a base width of 10.95, a height of 3.81, and a top edge angled at 15.00°. Section A-A: A cross-section through the center of the pillow, showing its internal structure. Isometric View: A 3D perspective of the pillow, which is wedge-shaped. Text: 'Conductive adhesive this side' points to the bottom surface of the side view. Metadata: - DIMENSIONS ARE IN MILLIMETERS (PREFERRED) - THIRD ANGLE PROJECTION - LAST UPDATED: 7/20/2015 - TITLE: Button - Conductive Pillow - DATE: B - SCALE: 4:1 - MATERIAL: Foam wrapped in a metallized fabric (polyester Ni/Cu) - Google logo and address: 1600 Amphitheatre Parkway, Mountain View, CA 94043, USA - SHEET 1 OF 1

Button – Conductive Pillow.pdf

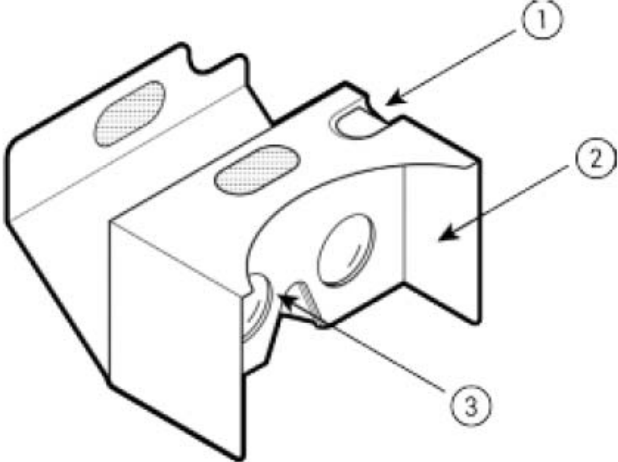


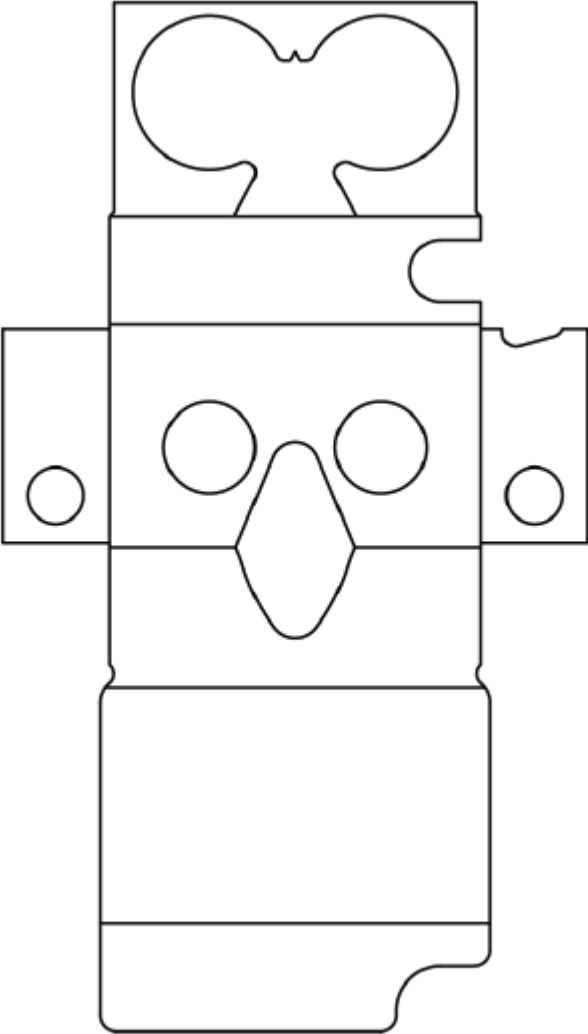
Button – Conductive Strip.pdf

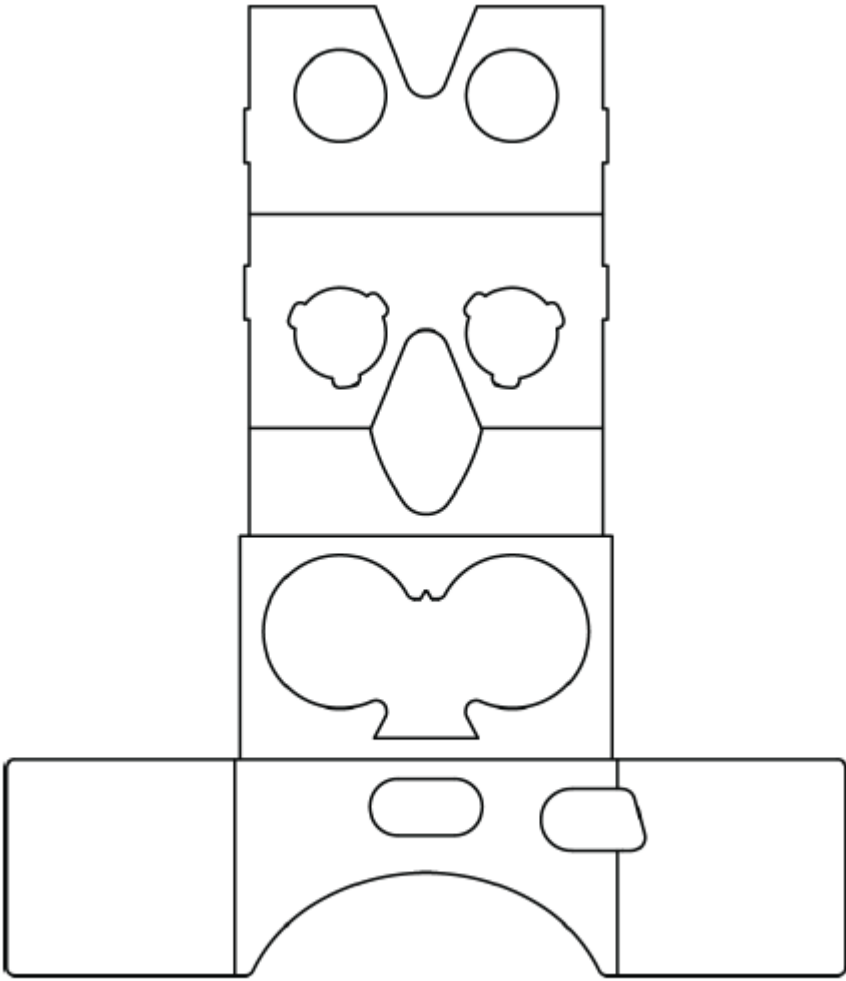


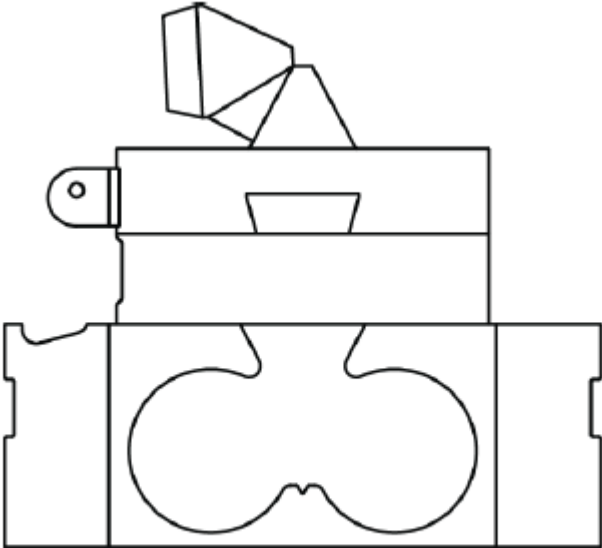
Viewer – Body.pdf

U.S. Patent No. 9,420,075 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
a housing configured to receive the mobile electronic device,	<i>The Cardboard Viewers comprise a housing configured to receive the mobile electronic device.</i> GCV2 Physical Unit.

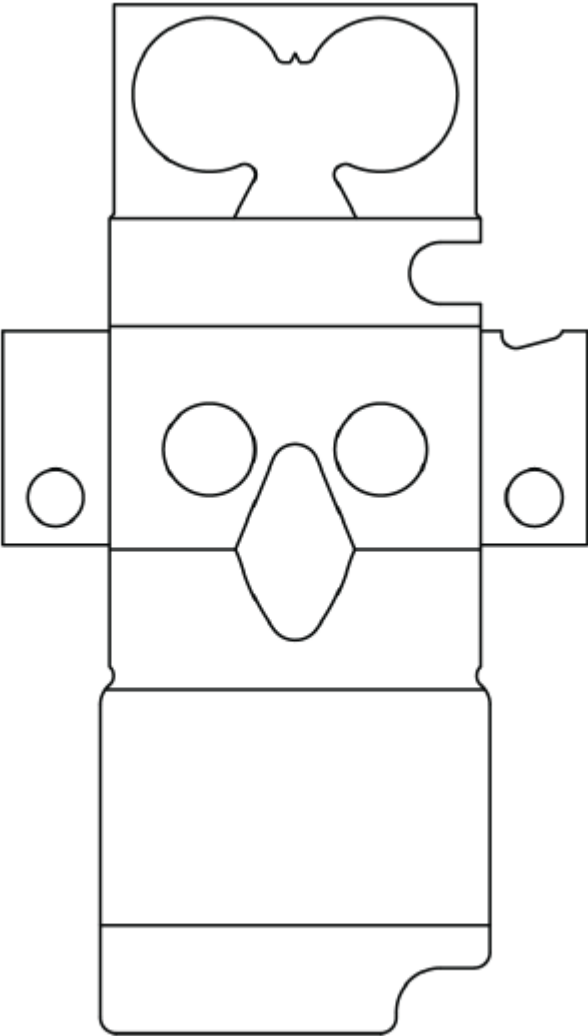
U.S. Patent No. 9,420,075 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 Figure 1. Typical components of a Google Cardboard viewer: (1) - input, (2) - enclosure, (3) - lenses. Google Cardboard Best Practices – Version 3.0 (2020). 3.2. Cardboard Mechanical Design Specifications Google 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.

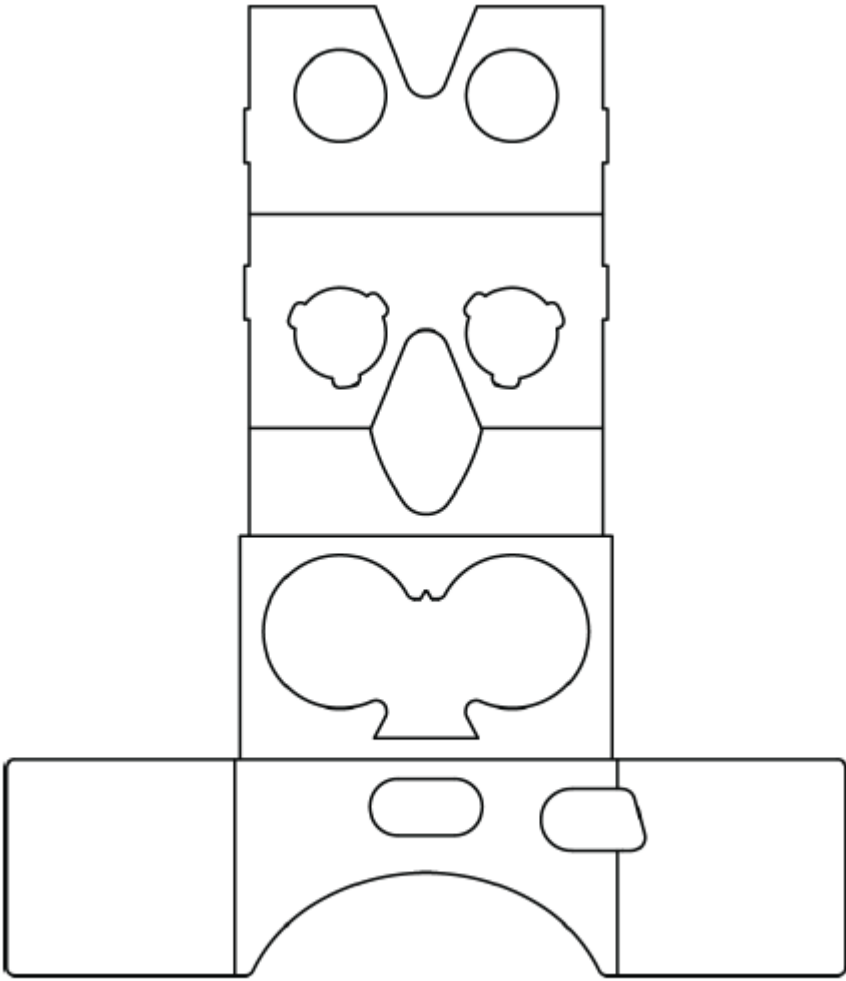
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	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

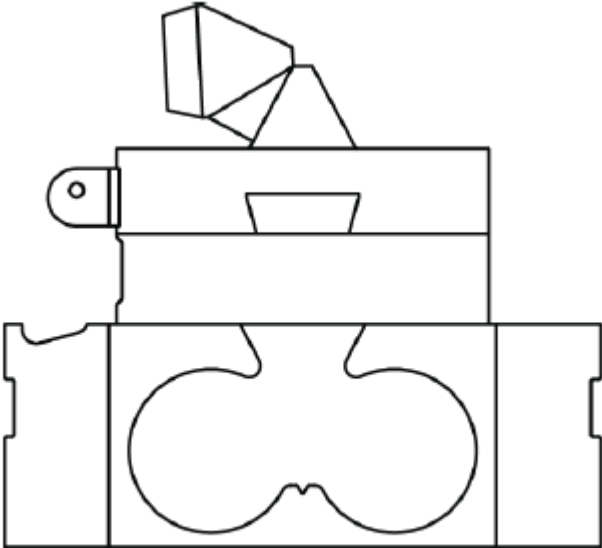
U.S. Patent No. 9,420,075 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i>

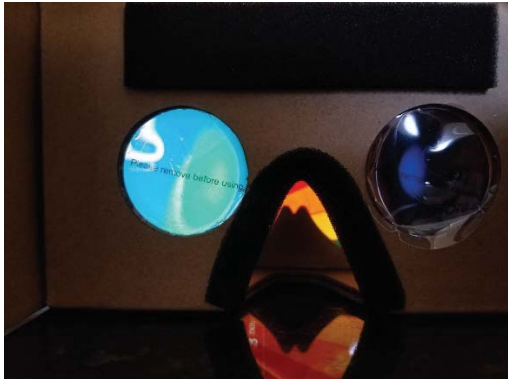
U.S. Patent No. 9,420,075 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

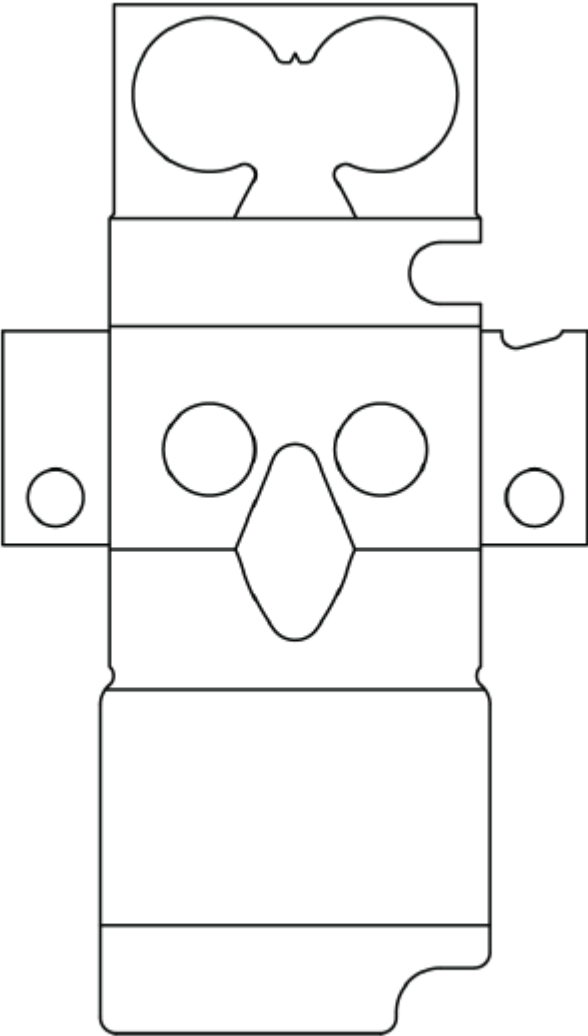
U.S. Patent No. 9,420,075 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
wherein the housing is configured to hold the mobile electronic device such that the touch screen is generally centered in a horizontal direction and directly in a user's field of view when looking into a generally hollow interior of the housing through a side opposite the touch-screen;	<i>The housing of the Cardboard Viewers is configured to hold the mobile electronic device such that the touch screen is generally centered in a horizontal direction.</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.

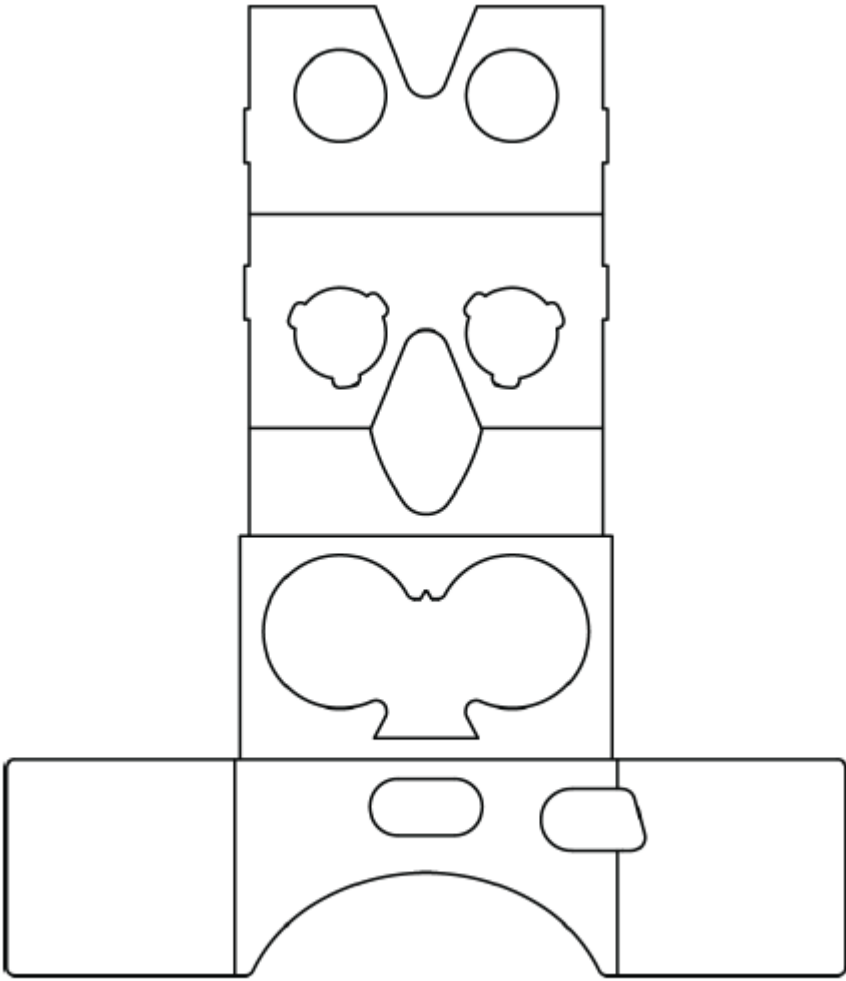
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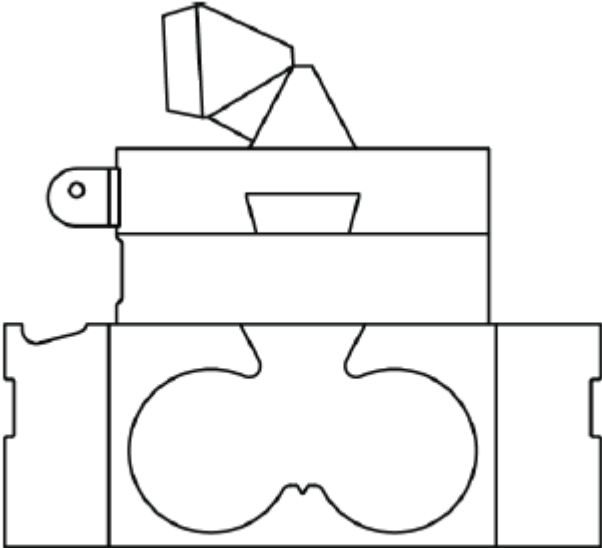
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U.S. Patent No. 9,420,075 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015). 3. The conductive pillow 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).

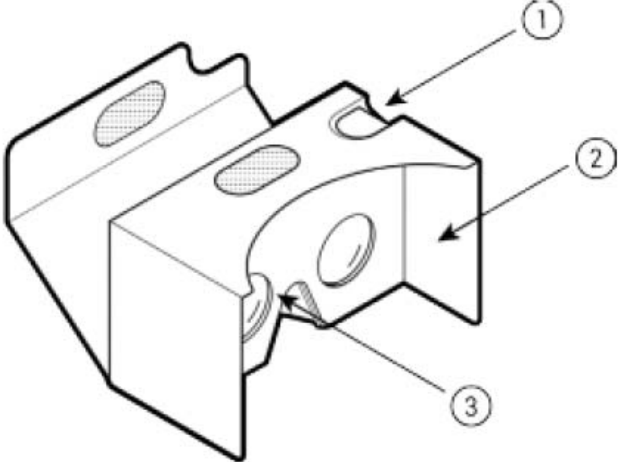
U.S. Patent No. 9,420,075 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	<i>The housing of the Cardboard Viewers is further configured to hold the mobile electronic device such that the touch screen is directly in a user's field of view when looking into a generally hollow interior of the housing through a side opposite the touch-screen.</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.

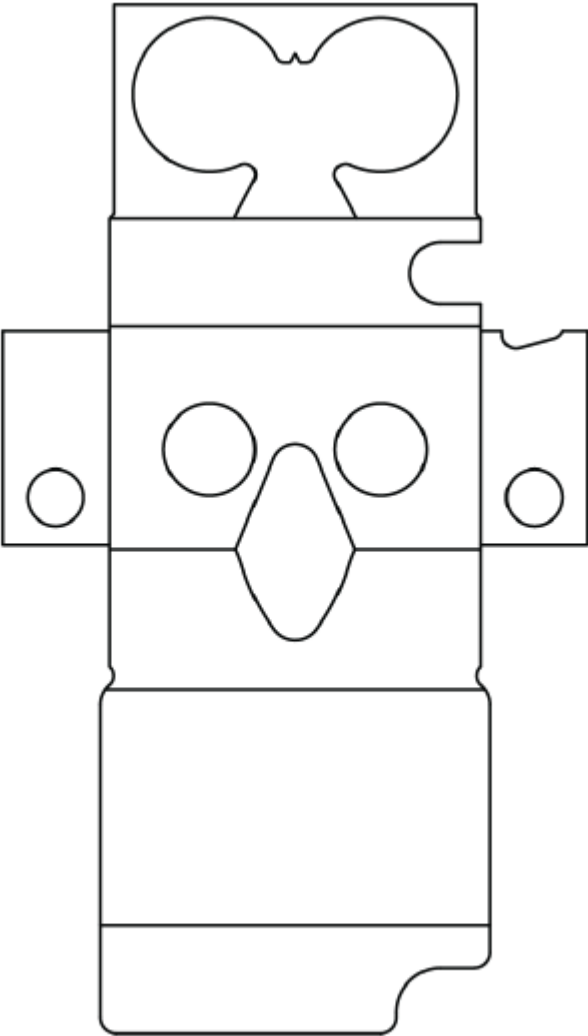
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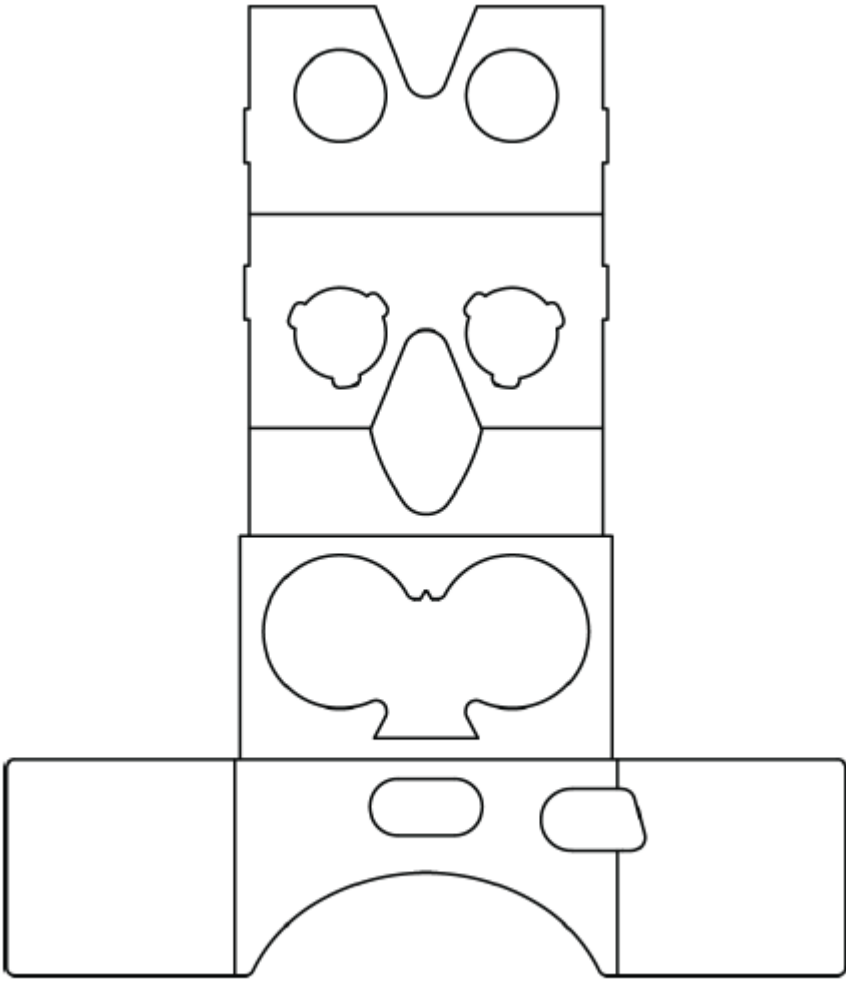
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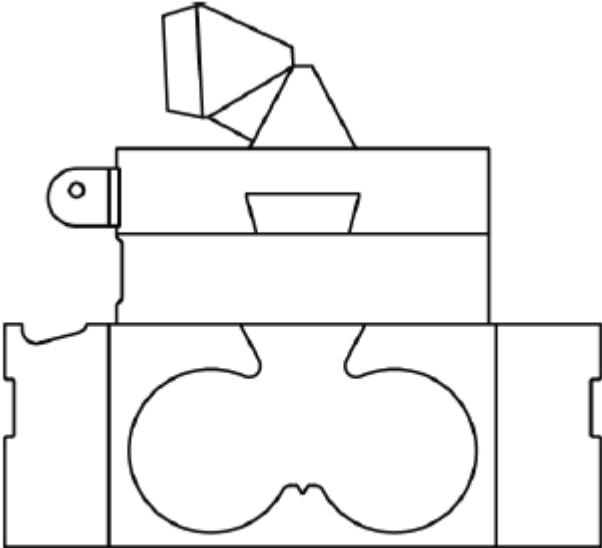
U.S. Patent No. 9,420,075 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

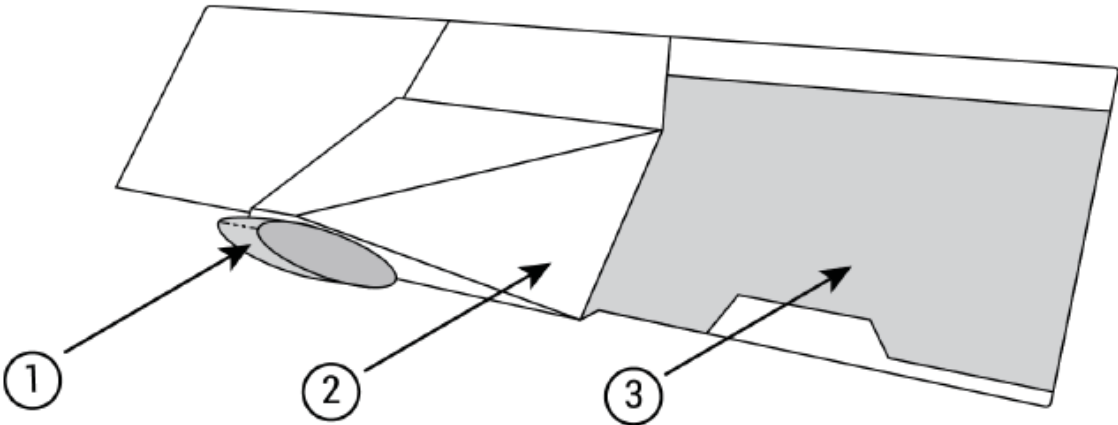
U.S. Patent No. 9,420,075 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
an input mechanism that is accessible from an exterior of the housing and is moveable within the interior between at least a first position and an extended position, the input mechanism comprising:	<i>The Cardboard Viewers further comprise an input mechanism that is accessible from an exterior of the housing.</i> GCV2 Physical Unit.

U.S. Patent No. 9,420,075 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. 9,420,075 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

U.S. Patent No. 9,420,075 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i>

U.S. Patent No. 9,420,075 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <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. 9,420,075 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")												
	 Figure 7. Cardboard button parts: (1) - "pillow", (2) - "hammer", (3) - "conductive strip" 3.3.1. <u>Conductive Strip Specifications</u> <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											

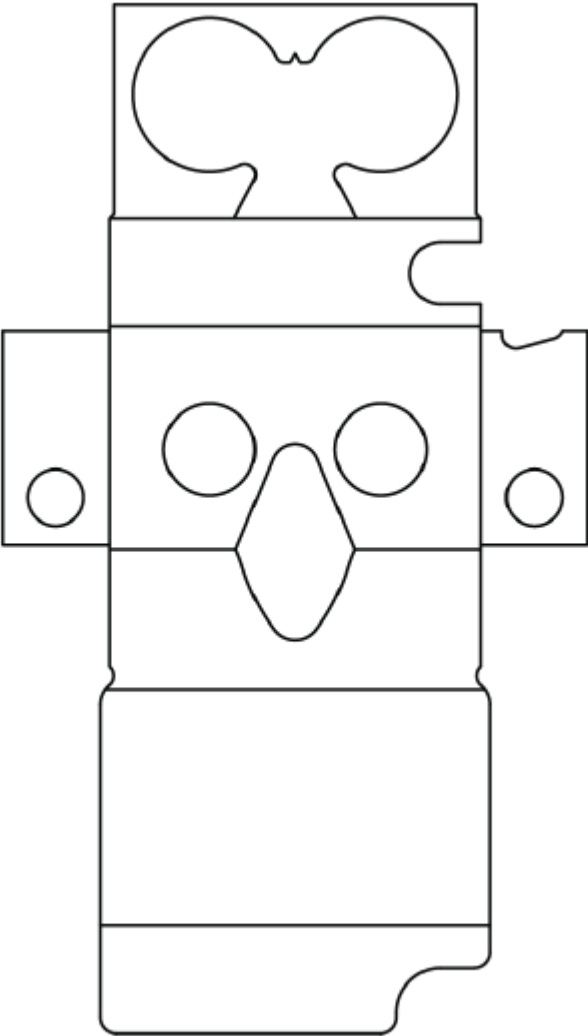
U.S. Patent No. 9,420,075 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)		
	<u>3.3.2. Conductive Pillow Specifications</u>		
	Parameters	Value	Unit
	Surface material	Metallized fabric (polyester Ni/Cu)	
	Core material	Soft urethane foam	
	Core surface resistivity	< 0.07	Ω/sq.
	PSA type	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).			

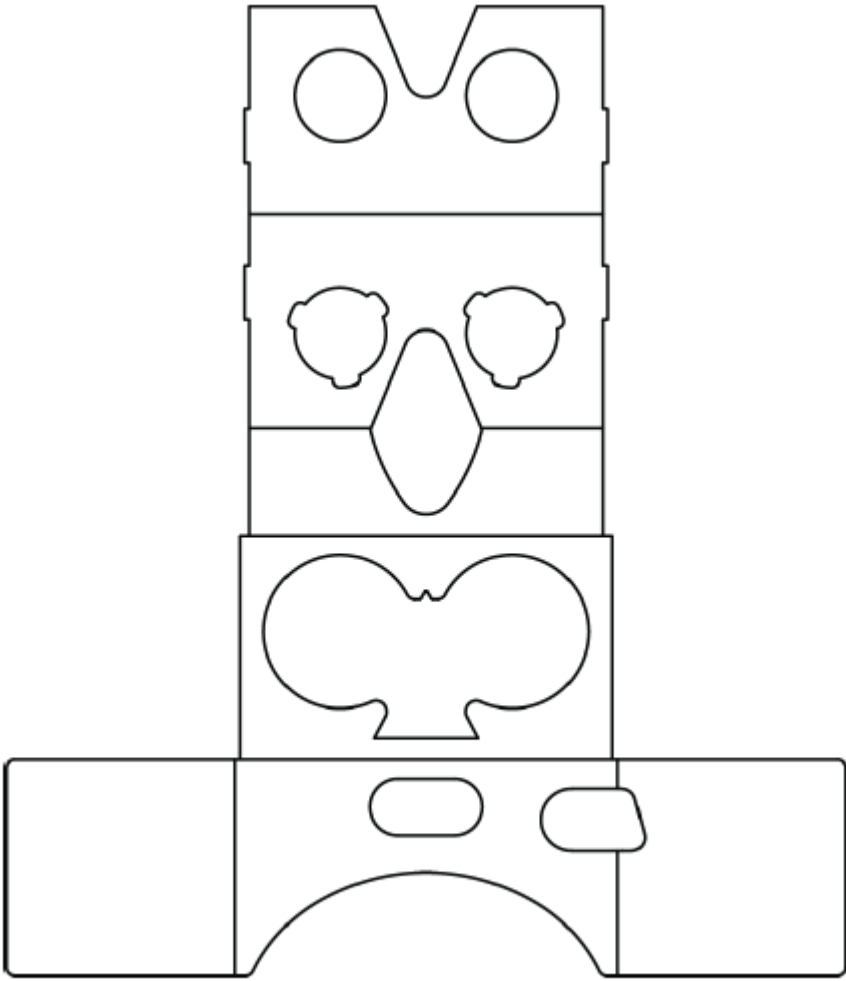
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	<i>The input mechanism of the Cardboard Viewers is moveable within the interior between at least a first position and an extended position.</i>   GCV2 Physical Unit.

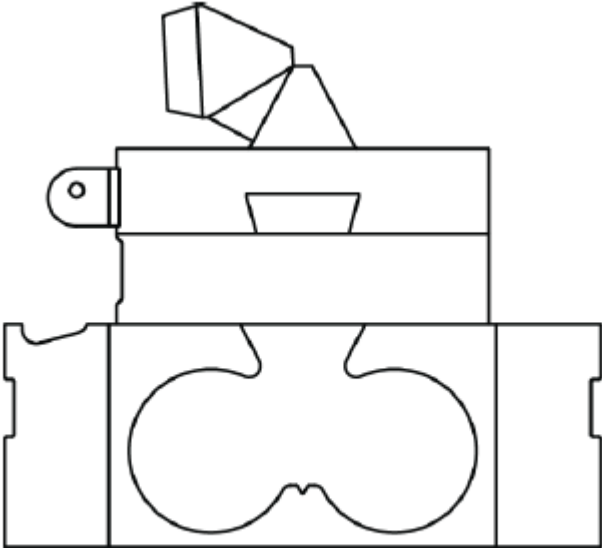
U.S. Patent No. 9,420,075 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
an electrical shield having a surface,	<i>The input mechanism of the Cardboard Viewers comprises an electrical shield having a surface.</i> GCV2 Physical Unit. The electrical shield of the Cardboard Viewers is the portion of the Cardboard Viewers comprising the metalized fabric (polyester nickle/copper) that encases the "pillow" and the "conductive strip." See also annotated supplement. 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>

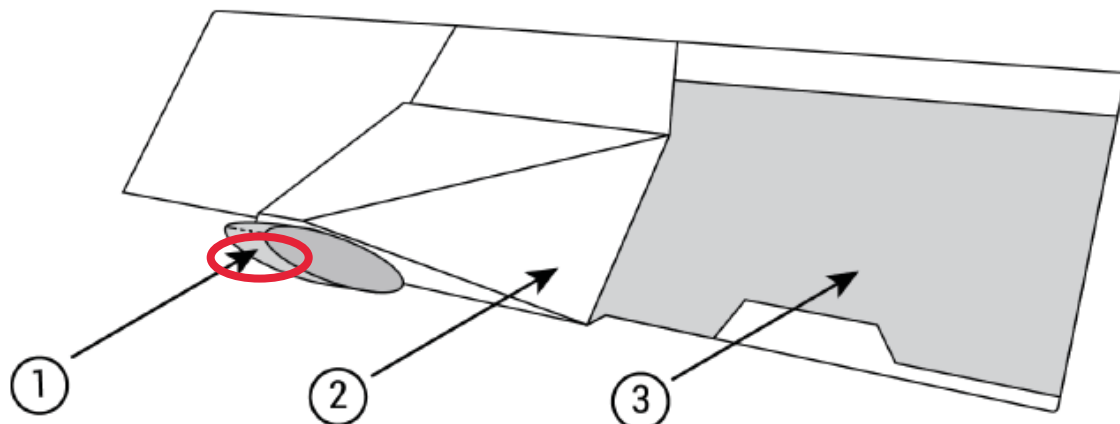
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	3.3.1. Conductive Strip Specifications		
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	Z-axis resistance	< 0.03	Ω
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Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).			

U.S. Patent No. 9,420,075 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
wherein only a portion of the surface of the electrical shield is configured to contact a central region of the touch-screen of the mobile electronic device when the input mechanism is in the extended position.	<i>Only a portion of the surface of the electrical shield of the Cardboard Viewers is configured to contact a central region of the touch-screen of the mobile electronic device when the input mechanism is in the extended position.</i> GCV2 Physical Unit. The portion of the surface of the electrical shield of the Cardboard Viewers is the surface of the "pillow" that makes contact with the touchscreen. See also annotated supplement. 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.

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	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

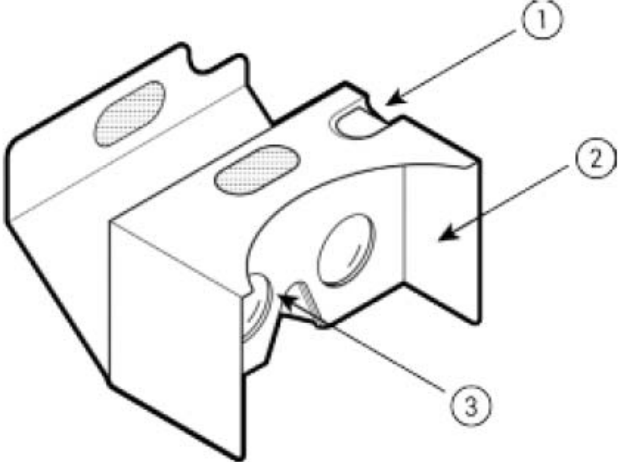
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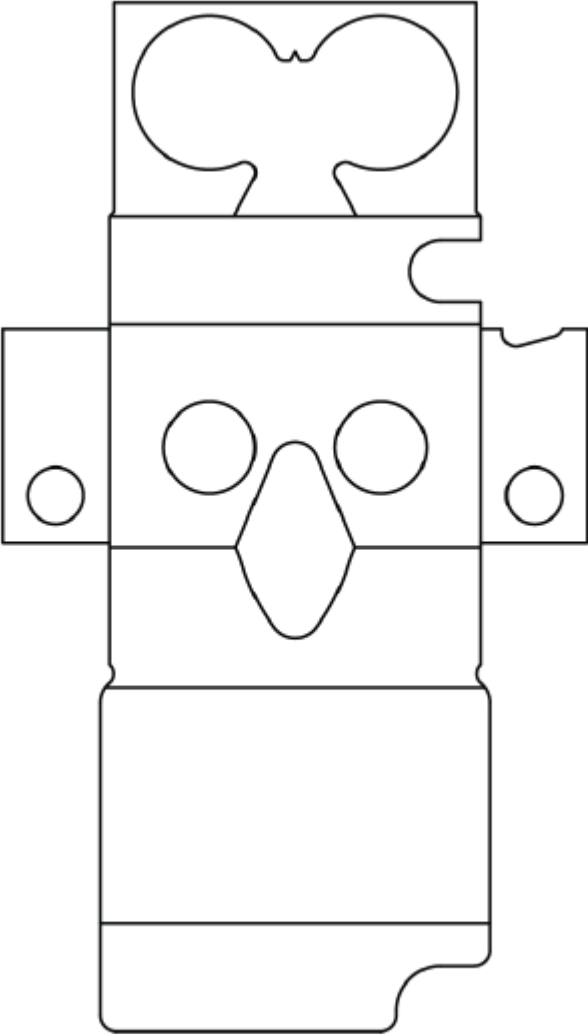
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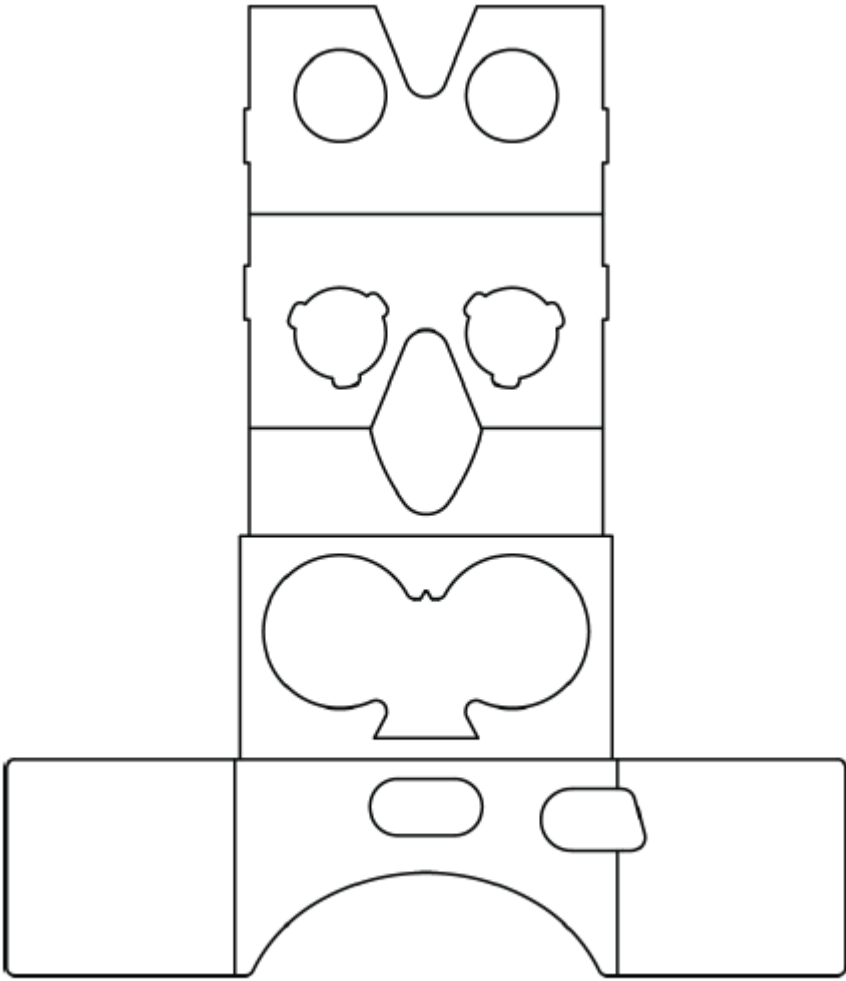
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Surface resistivity	< 0.03	Ω/sq.											
Z-axis resistance	< 0.03	Ω											

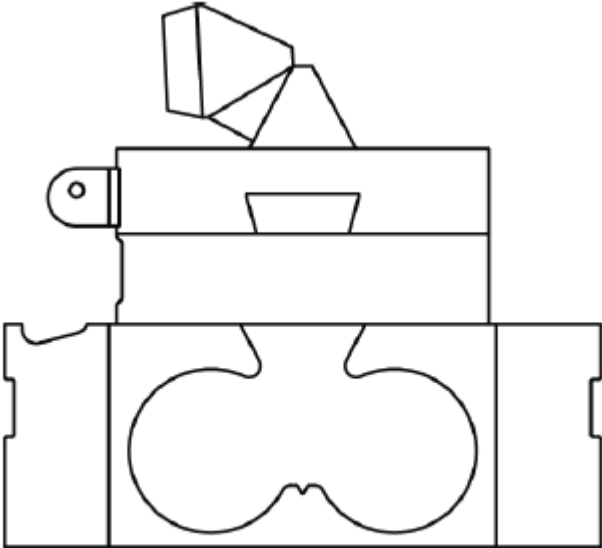
U.S. Patent No. 9,420,075 Claim 1	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")																		
	3.3.2. Conductive Pillow Specifications <table><tr><th>Parameters</th><th>Value</th><th>Unit</th></tr><tr><td>Surface material</td><td>Metallized fabric (polyester Ni/Cu)</td><td></td></tr><tr><td>Core 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
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U.S. Patent No. 9,420,075 Claim 3	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
The virtual reality viewer of claim 1, wherein an exterior wall of the housing is shaped to define a cut-out, and	<i>The Cardboard Viewers are virtual reality viewers as claimed in independent claim 1.</i> <i>The housing of the Cardboard Viewers has an exterior wall shaped to define a cut-out.</i>  GCV2 Physical Unit.

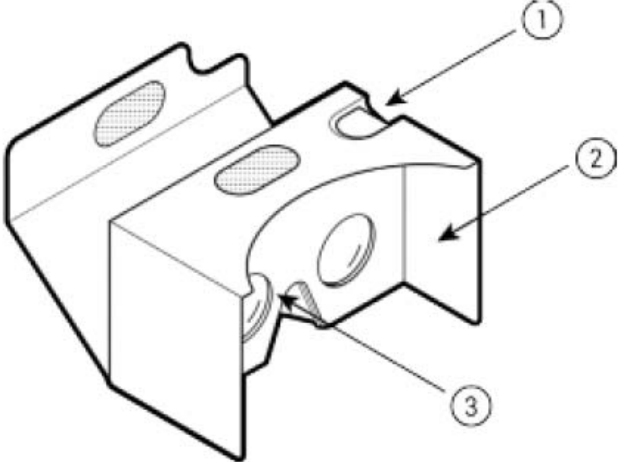
U.S. Patent No. 9,420,075 Claim 3	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 Figure 1. Typical components of a Google Cardboard viewer: (1) - input, (2) - enclosure, (3) - lenses. Google Cardboard Best Practices – Version 3.0 (2020). 3.2. Cardboard Mechanical Design Specifications 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.

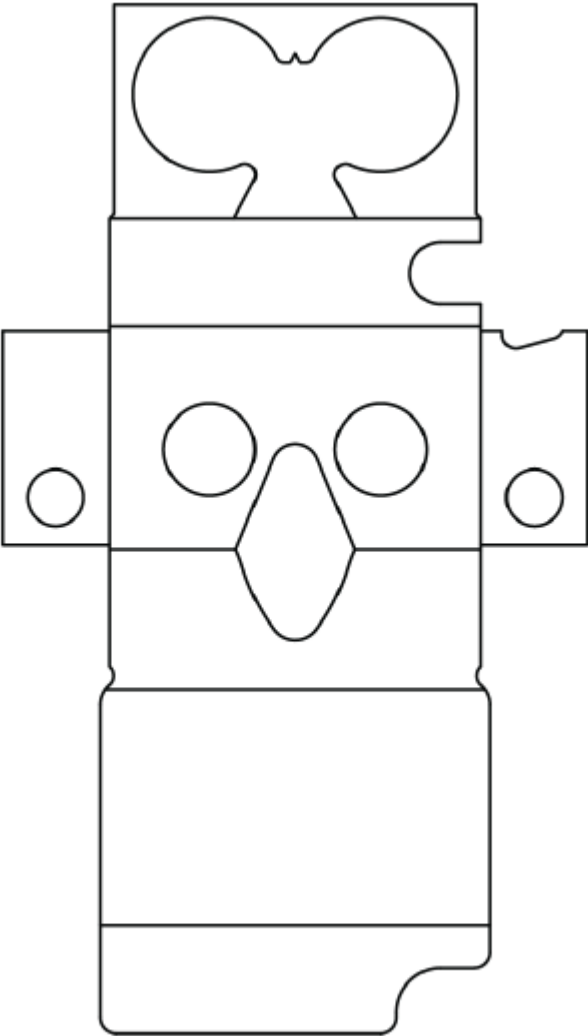
U.S. Patent No. 9,420,075 Claim 3	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

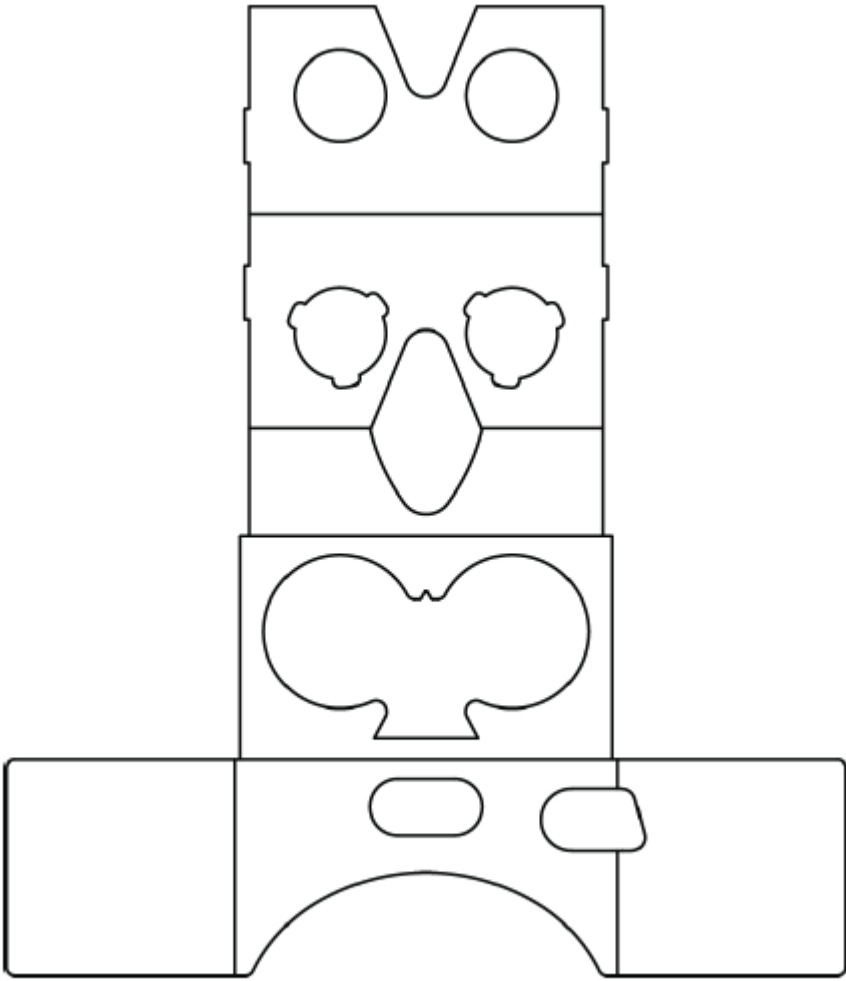
U.S. Patent No. 9,420,075 Claim 3	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i>

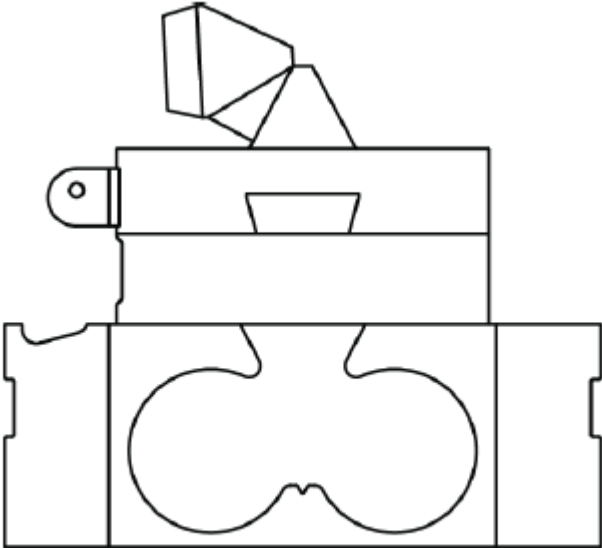
U.S. Patent No. 9,420,075 Claim 3	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

U.S. Patent No. 9,420,075 Claim 3	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
wherein at least a first portion of the input mechanism is accessible to the user through the cut-out.	<i>At least a first portion of the input mechanism of the Cardboard Viewers is accessible to the user through the cut-out.</i>  GCV2 Physical Unit.

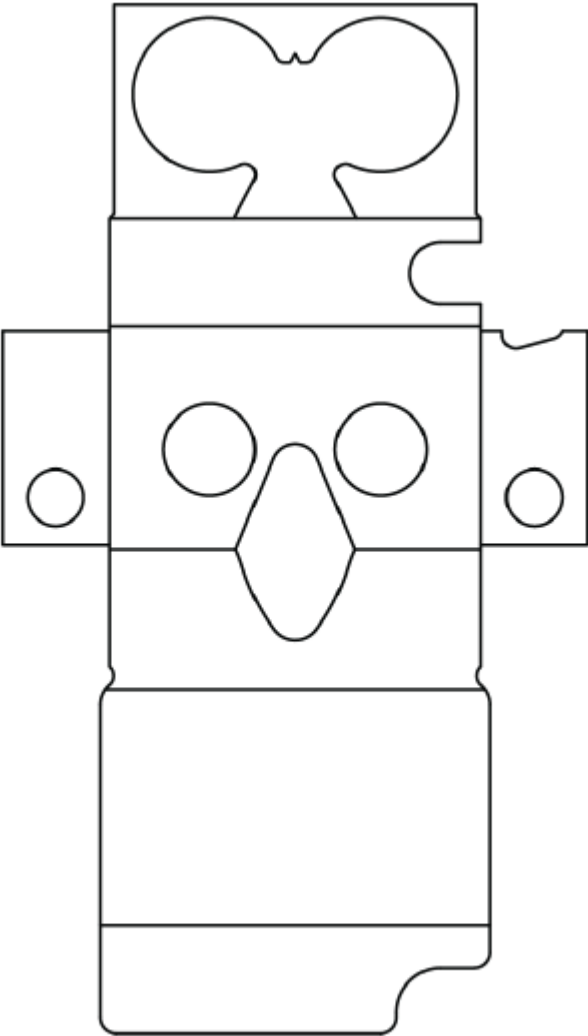
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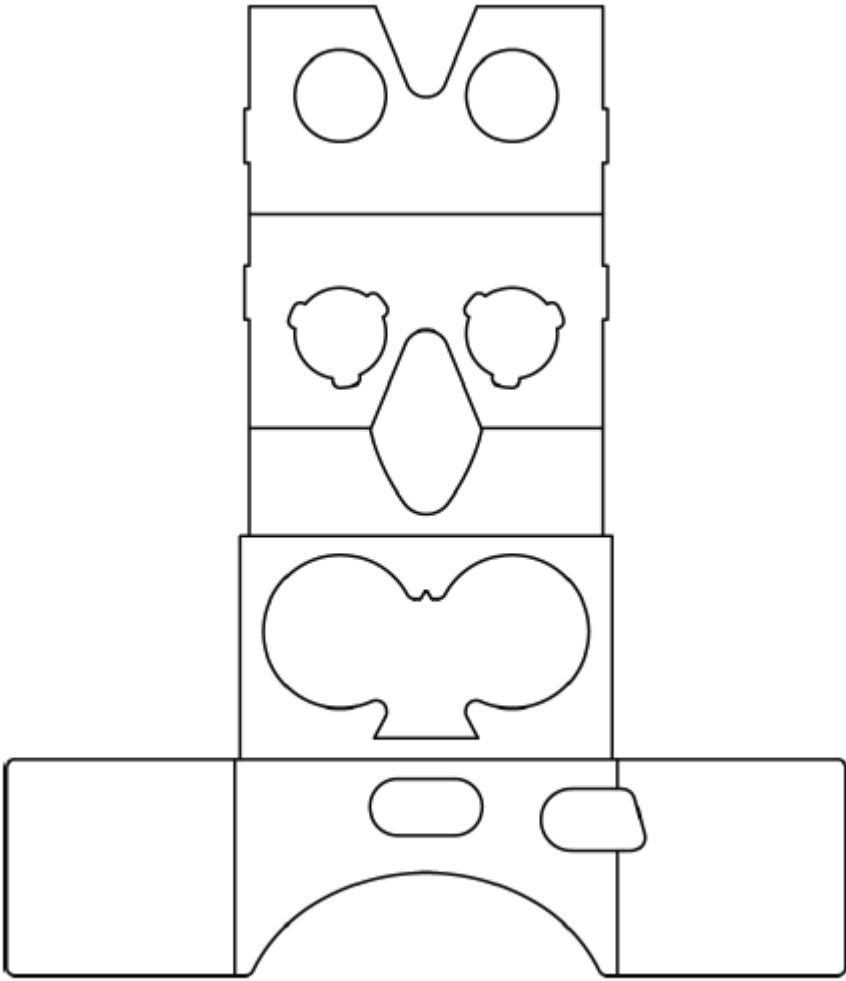
U.S. Patent No. 9,420,075 Claim 3	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

U.S. Patent No. 9,420,075 Claim 3	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i>

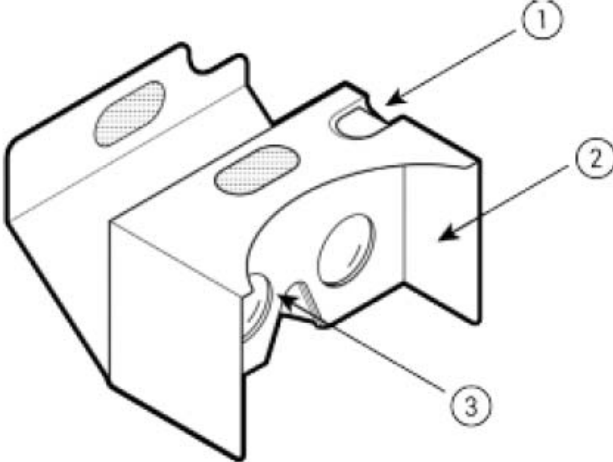
U.S. Patent No. 9,420,075 Claim 3	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

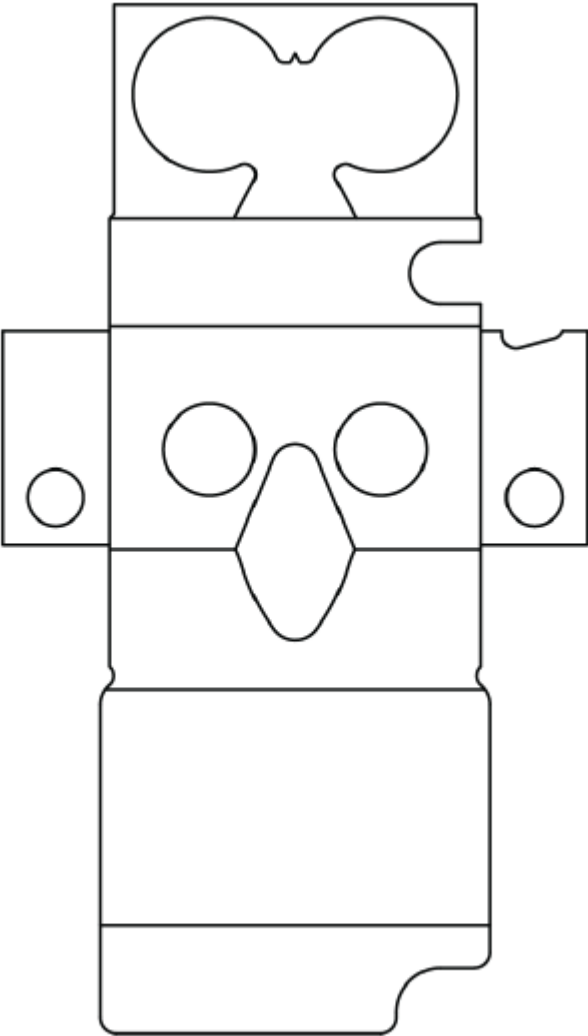
U.S. Patent No. 9,420,075 Claim 4	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
The virtual reality viewer of claim 3, wherein the housing substantially encloses the touch-screen within the interior, and further comprising:	<i>The Cardboard Viewers are virtual reality viewers as claimed in independent claim 1 and dependent claim 3.</i> <i>The housing of the Cardboard Viewers substantially encloses the touch-screen within the interior.</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.

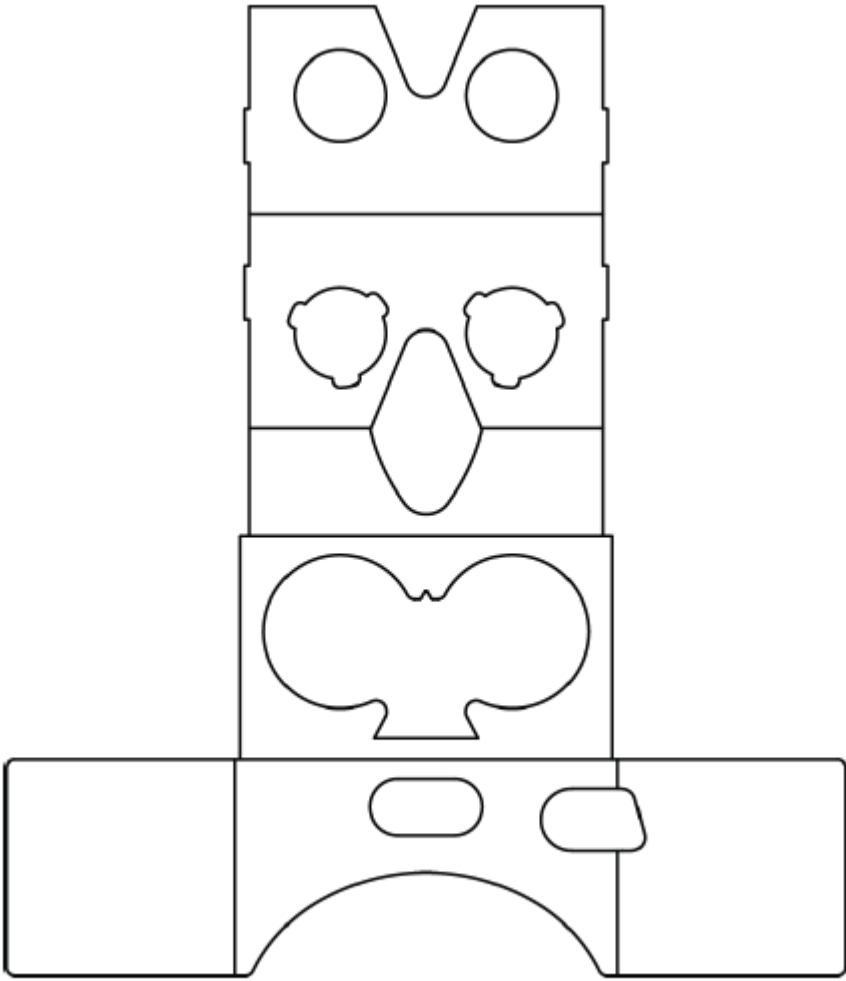
U.S. Patent No. 9,420,075 Claim 4	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
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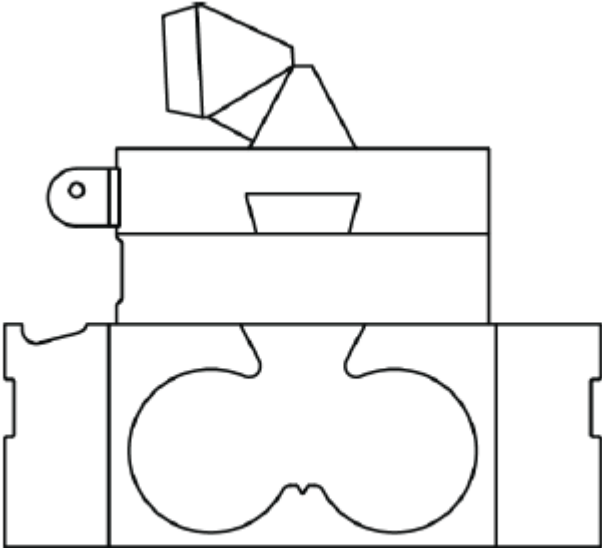
U.S. Patent No. 9,420,075 Claim 4	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

U.S. Patent No. 9,420,075 Claim 4	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
a back wall opposite the touch-screen, wherein the backwall includes a left and a right lens for viewing a left and a right region of the interior and the touch-screen within the housing;	<i>The Cardboard Viewers further comprise a back wall opposite the touch-screen, wherein the backwall includes a left and a right lens for viewing a left and a right region of the interior and the touch-screen within the housing.</i>  GCV2 Physical Unit.

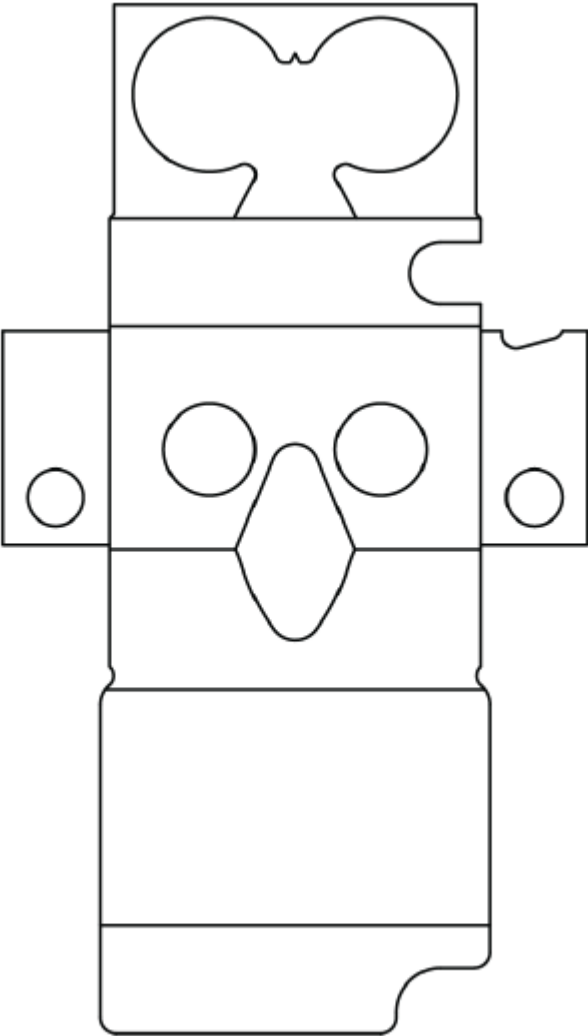
U.S. Patent No. 9,420,075 Claim 4	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 Figure 1. Typical components of a Google Cardboard viewer: (1) - input, (2) - enclosure, (3) - lenses. Google Cardboard Best Practices – Version 3.0 (2020). 3. Design Specifications This section provides the technical 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.

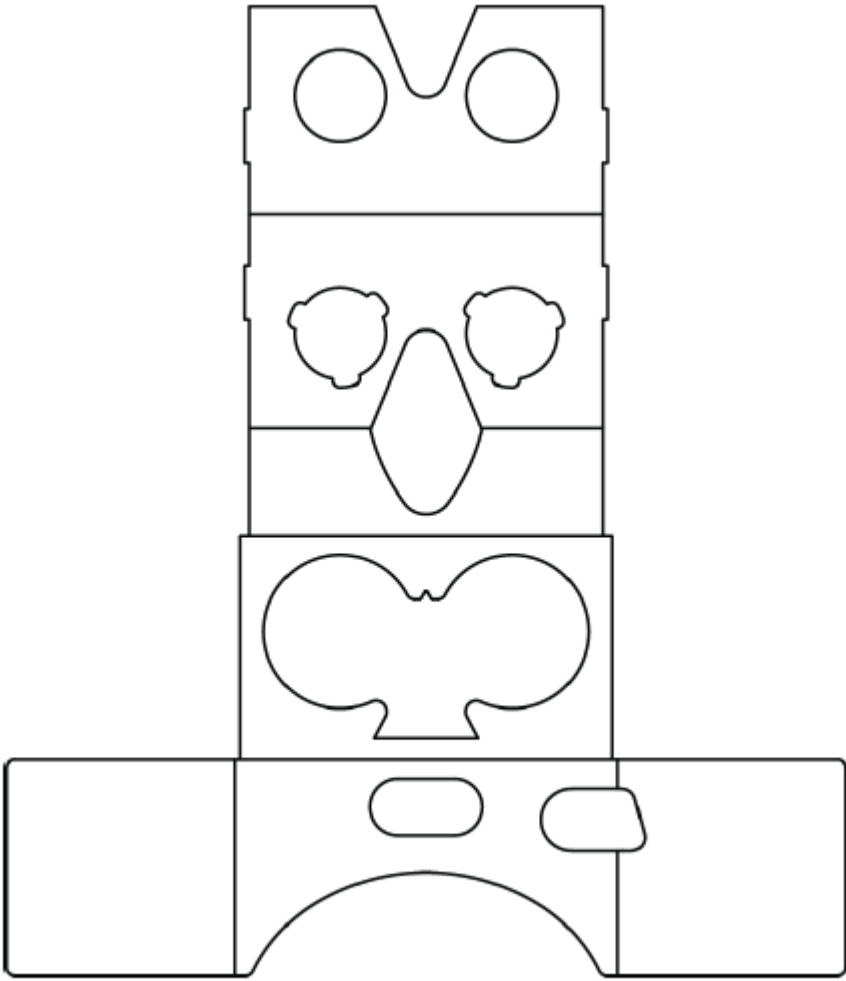
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	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

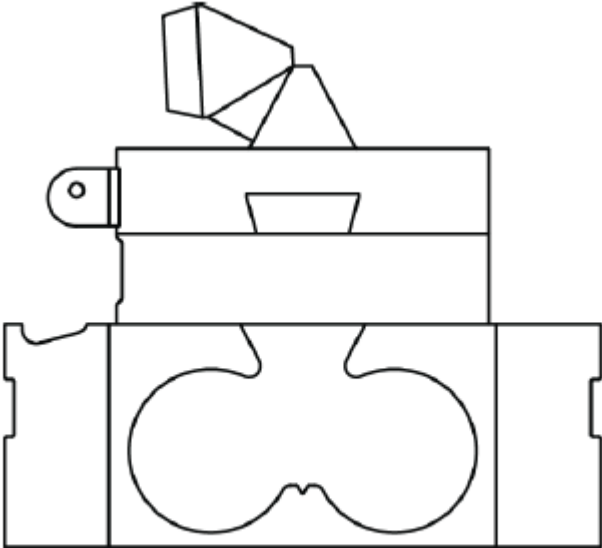
U.S. Patent No. 9,420,075 Claim 4	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
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U.S. Patent No. 9,420,075 Claim 4	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
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U.S. Patent No. 9,420,075 Claim 4	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
wherein at least a second portion of the input mechanism is generally centered in the horizontal direction within the interior and is configured to move in a direction toward the touch-screen when the first portion of the input mechanism is actuated; and	<i>At least a second portion of the input mechanism of the Cardboard Viewers is generally centered in the horizontal direction within the interior.</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. 9,420,075 Claim 4	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
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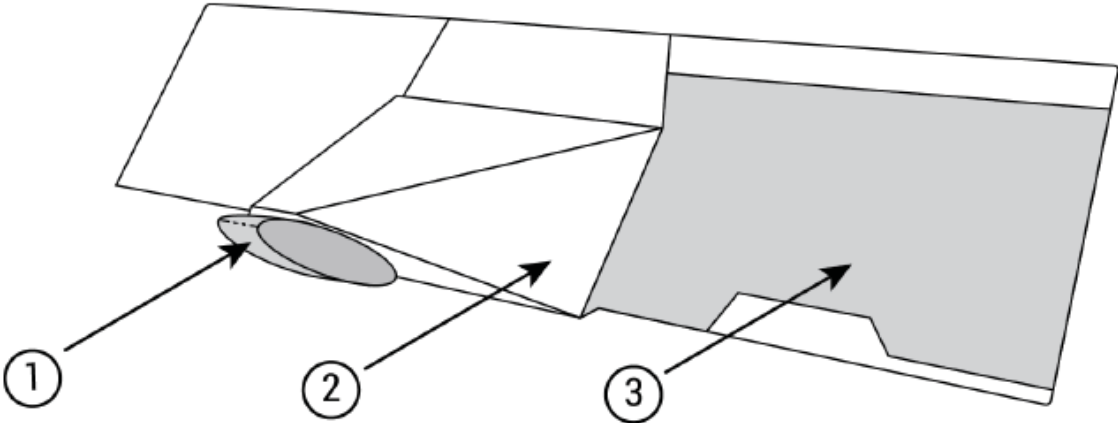
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U.S. Patent No. 9,420,075 Claim 4	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")												
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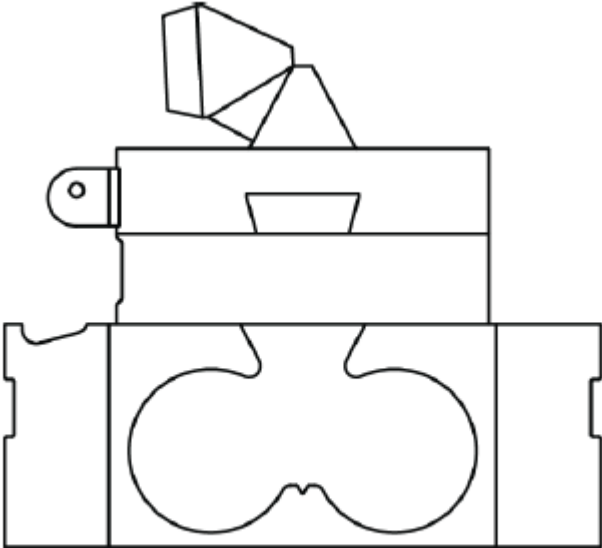
U.S. Patent No. 9,420,075 Claim 4	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")		
	<u>3.3.2. Conductive Pillow Specifications</u>		
	Parameters	Value	Unit
	Surface material	Metallized fabric (polyester Ni/Cu)	
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	Core surface resistivity	< 0.07	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).			
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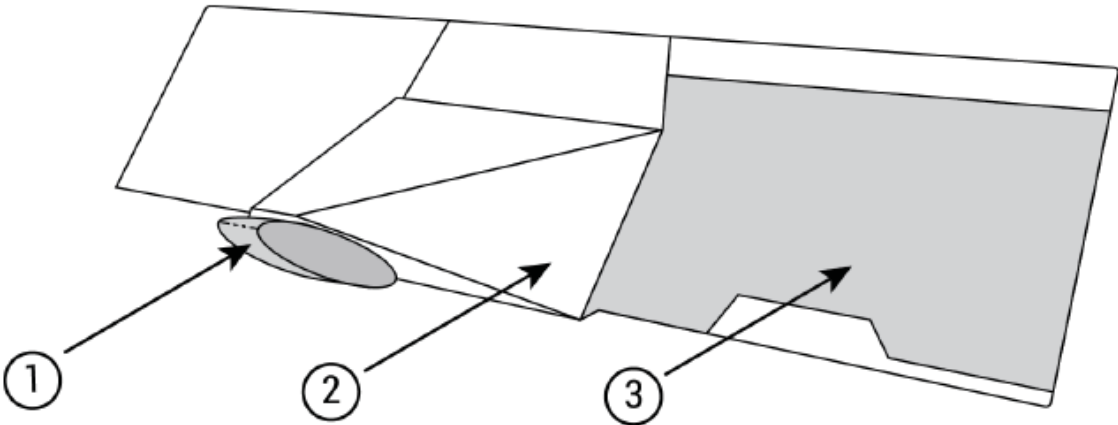
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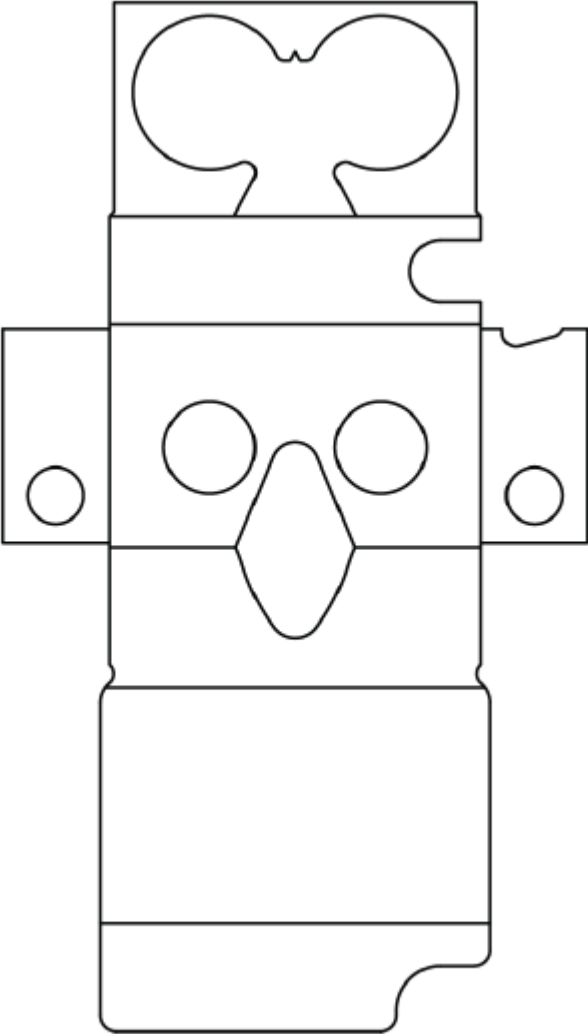
U.S. Patent No. 9,420,075 Claim 4	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
wherein the portion of the surface of the electrical shield is disposed on the second portion of the input mechanism and is generally centered within the interior in the horizontal direction whereby the portion is generally located between the left and right regions and is moveable between the first position and the extended position.	<i>The portion of the surface of the electrical shield of the Cardboard Viewers is disposed on the second portion of the input mechanism.</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.

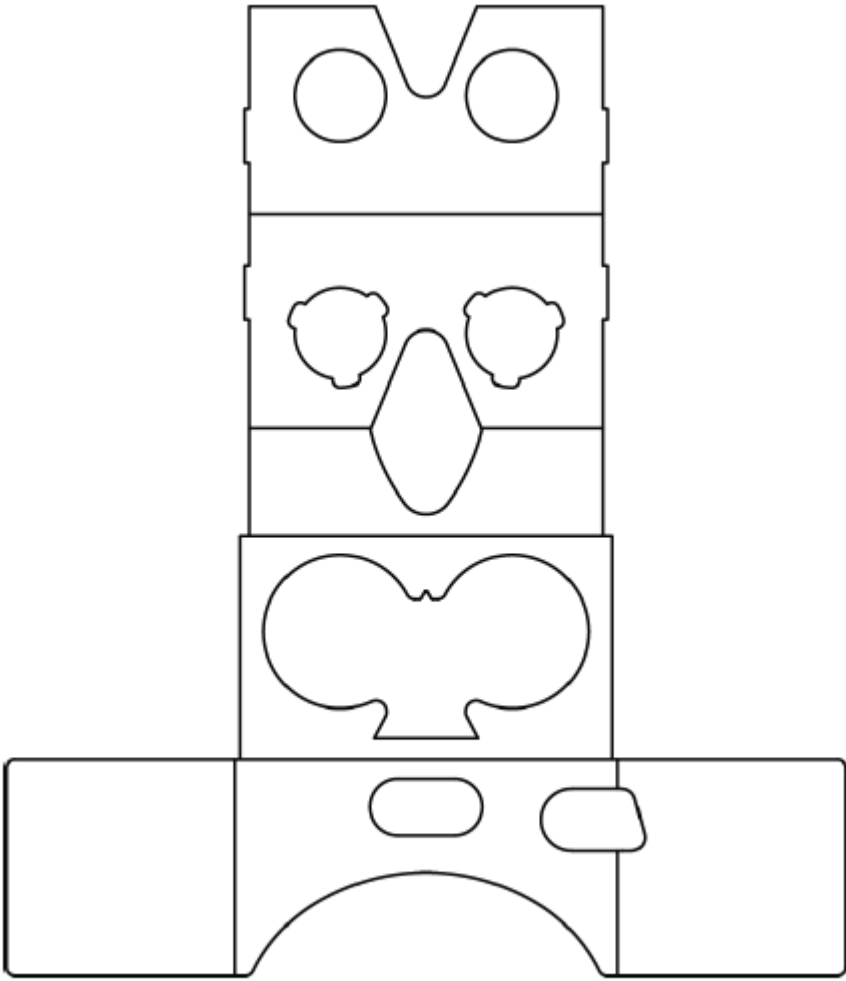
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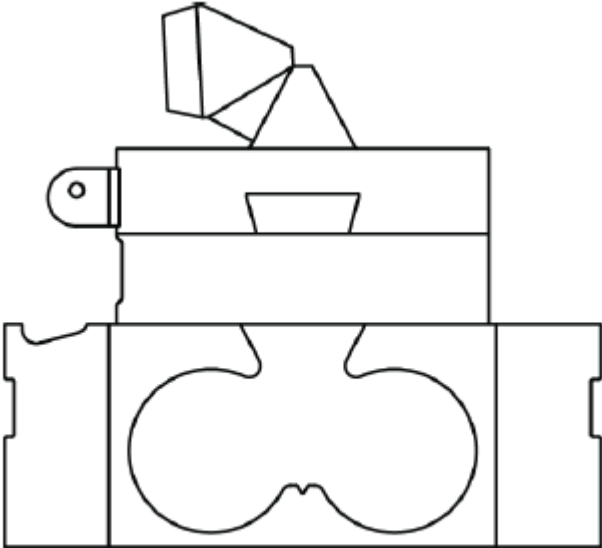
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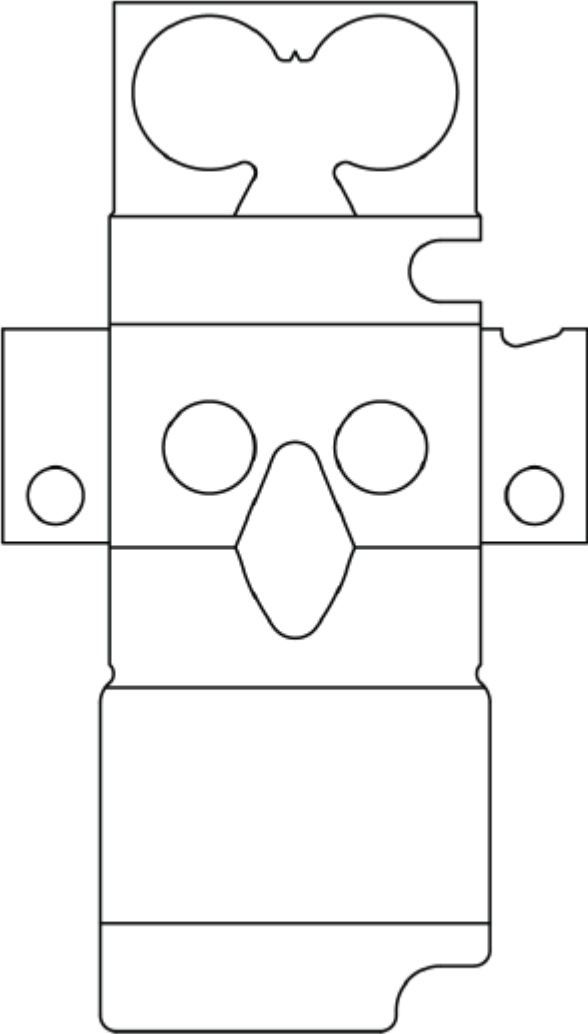
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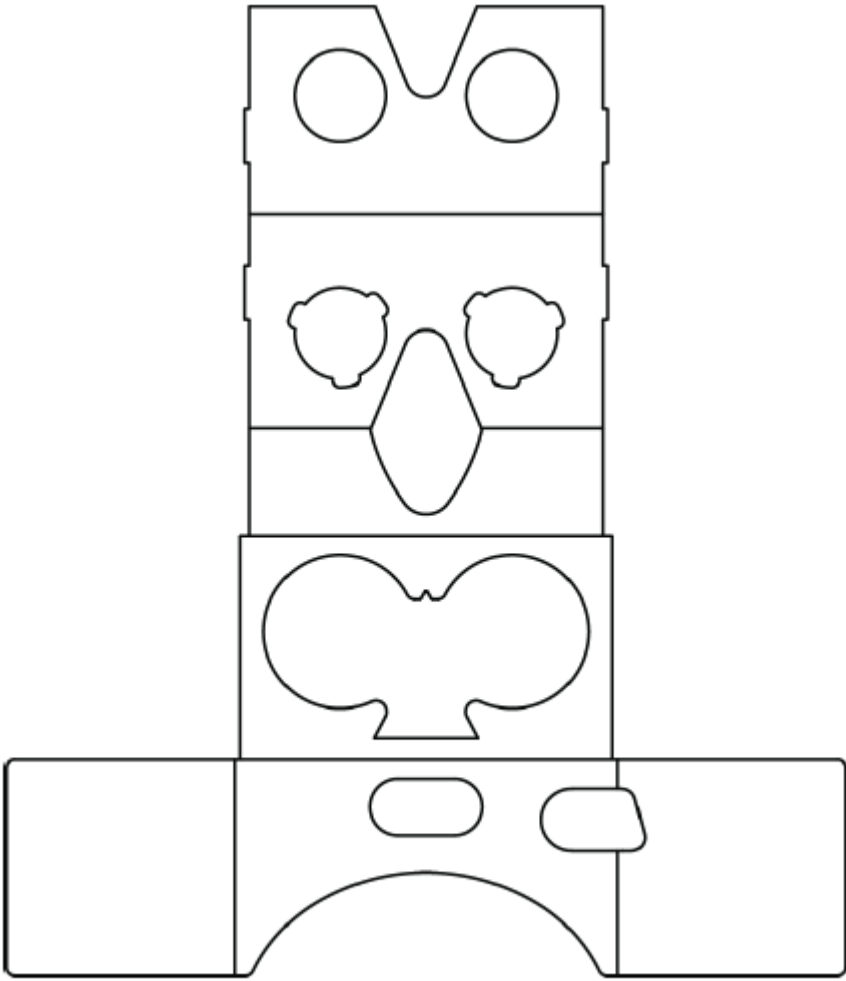
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	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

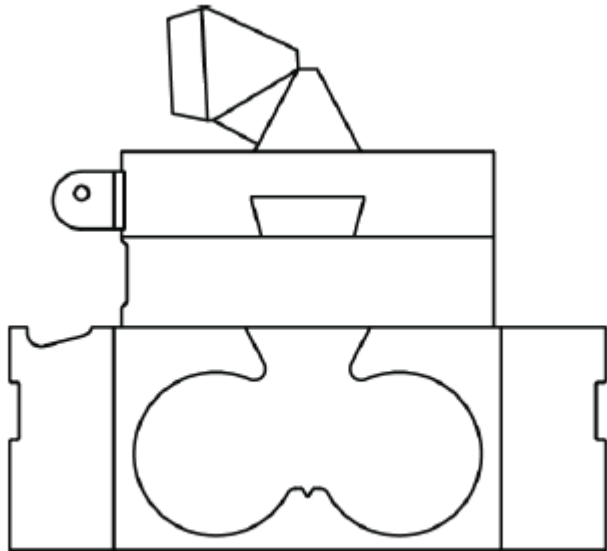
U.S. Patent No. 9,420,075 Claim 4	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i>

U.S. Patent No. 9,420,075 Claim 4	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).

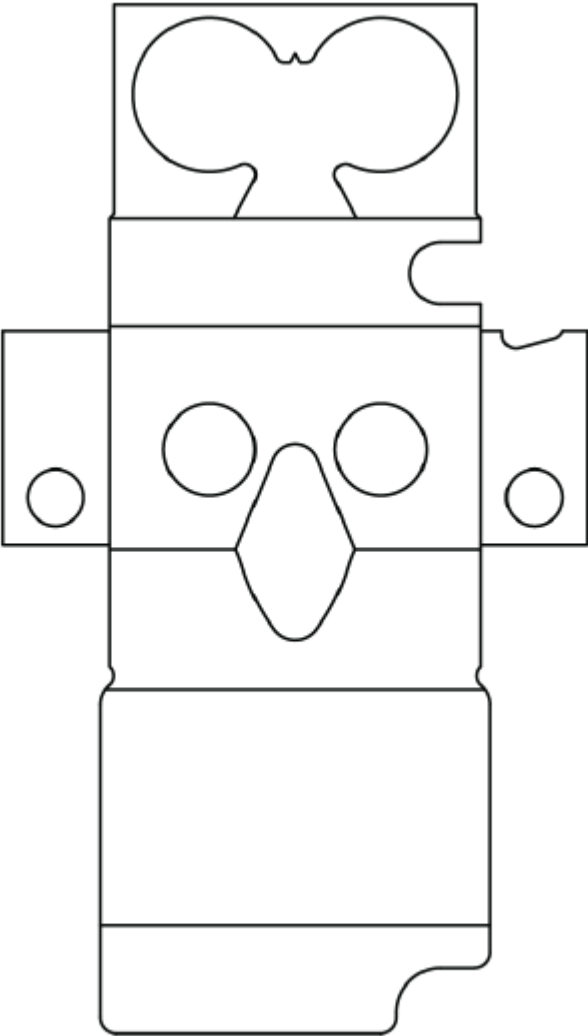
U.S. Patent No. 9,420,075 Claim 5	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
The virtual reality viewer of claim 1, wherein at least a portion of the input mechanism defines at least a portion of a view divider within the interior of the housing,	<i>The Cardboard Viewers are virtual reality viewers as claimed in independent claim 1.</i> <i>At least a portion of the input mechanism of the Cardboard Viewers defines at least a portion of a view divider within the interior of the housing.</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.

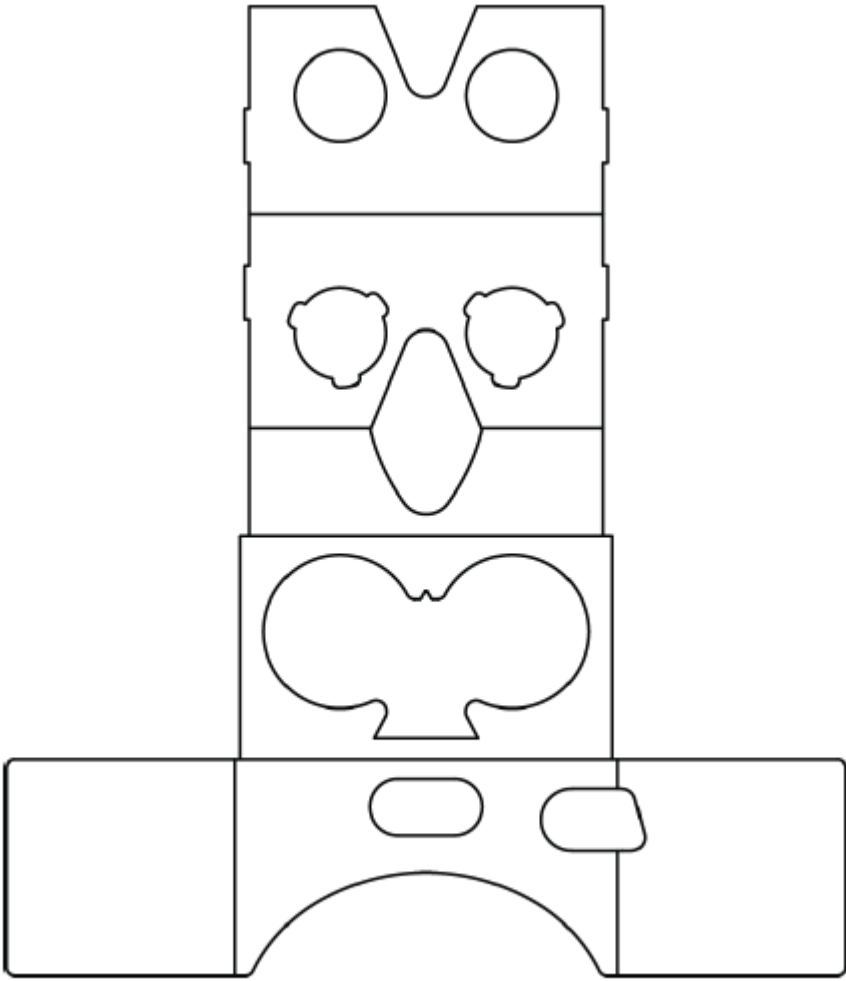
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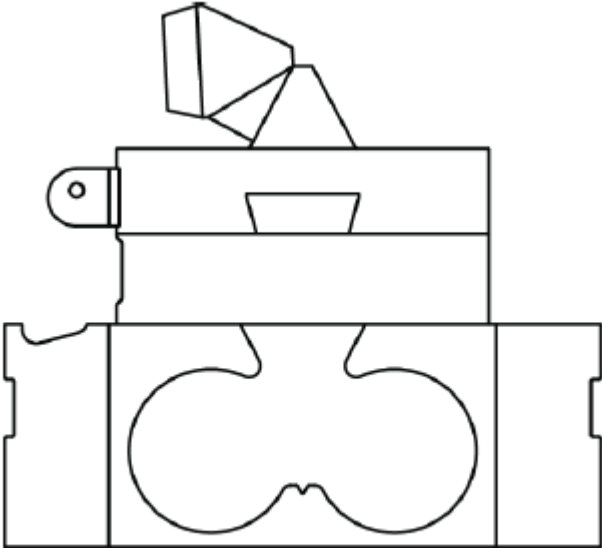
U.S. Patent No. 9,420,075 Claim 5	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
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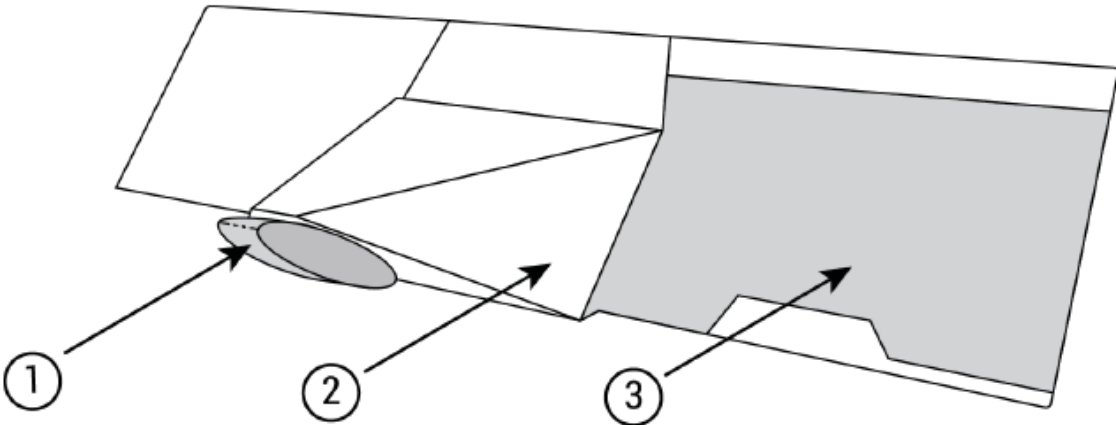
U.S. Patent No. 9,420,075 Claim 5	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
wherein the view divider is a structure that is generally centered within the interior and at least partially separates a left and a right region of the interior.	<i>The view divider of the Cardboard Viewers is a structure that is generally centered within the interior and at least partially separates a left and a right region of the interior.</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.

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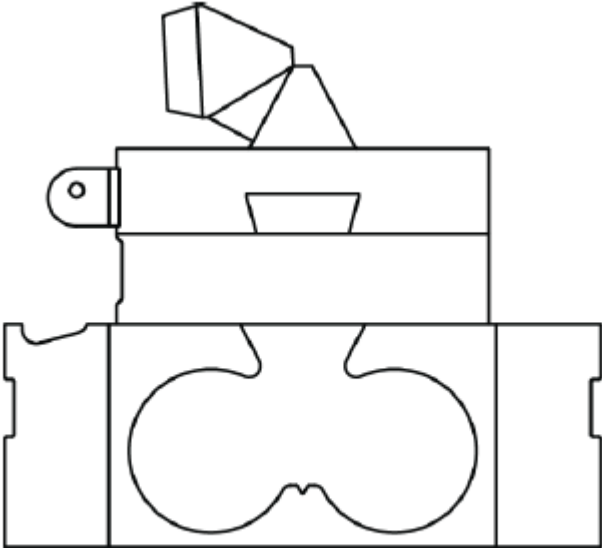
U.S. Patent No. 9,420,075 Claim 5	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015). 3. The conductive pillow should be centered within the phone-facing apertures, 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).

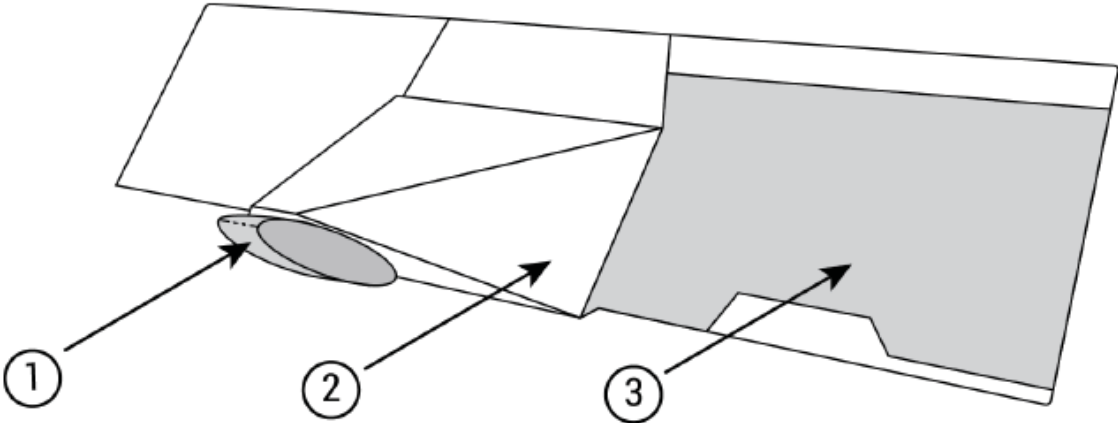
U.S. Patent No. 9,420,075 Claim 6	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
The virtual reality viewer of claim 1, wherein the electrical shield comprises one or more of: a metallized fabric, a metallized polymer, a conductive polymer, a conductive fabric, a rigid flex printed circuit board and a flexographic ink.	<i>The Cardboard Viewers are virtual reality viewers as claimed in independent claim 1.</i> <i>The electrical shield of the Cardboard Viewers comprises one or more of: a metallized fabric, a metallized polymer, a conductive polymer, a conductive fabric, a rigid flex printed circuit board and a flexographic ink.</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. 9,420,075 Claim 6	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. 9,420,075 Claim 6	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).		

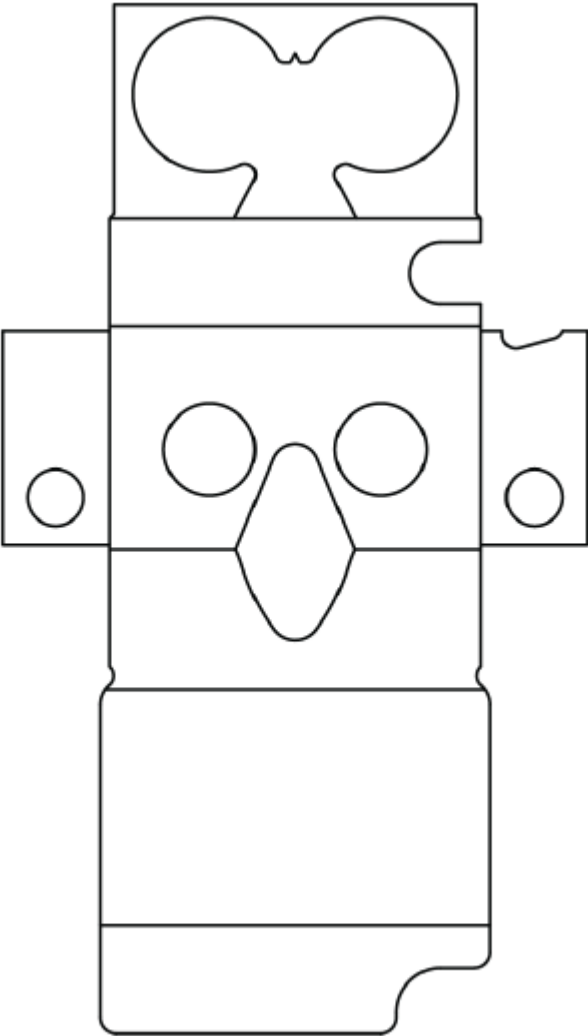
U.S. Patent No. 9,420,075 Claim 7	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
The virtual reality viewer of claim 6, wherein the surface of the electrical shield is sized to have electrical properties that are sufficient to be detected by the touch-screen based on capacitance when the input mechanism is in the extended position and only the portion of the surface is contacting the touch-screen.	<i>The Cardboard Viewers are virtual reality viewers as claimed in independent claim 1 and dependent claim 6.</i> <i>The surface of the electrical shield of the Cardboard Viewers is sized to have electrical properties that are sufficient to be detected by the touch-screen based on capacitance when the input mechanism is in the extended position and only the portion of the surface is contacting the touch-screen.</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.

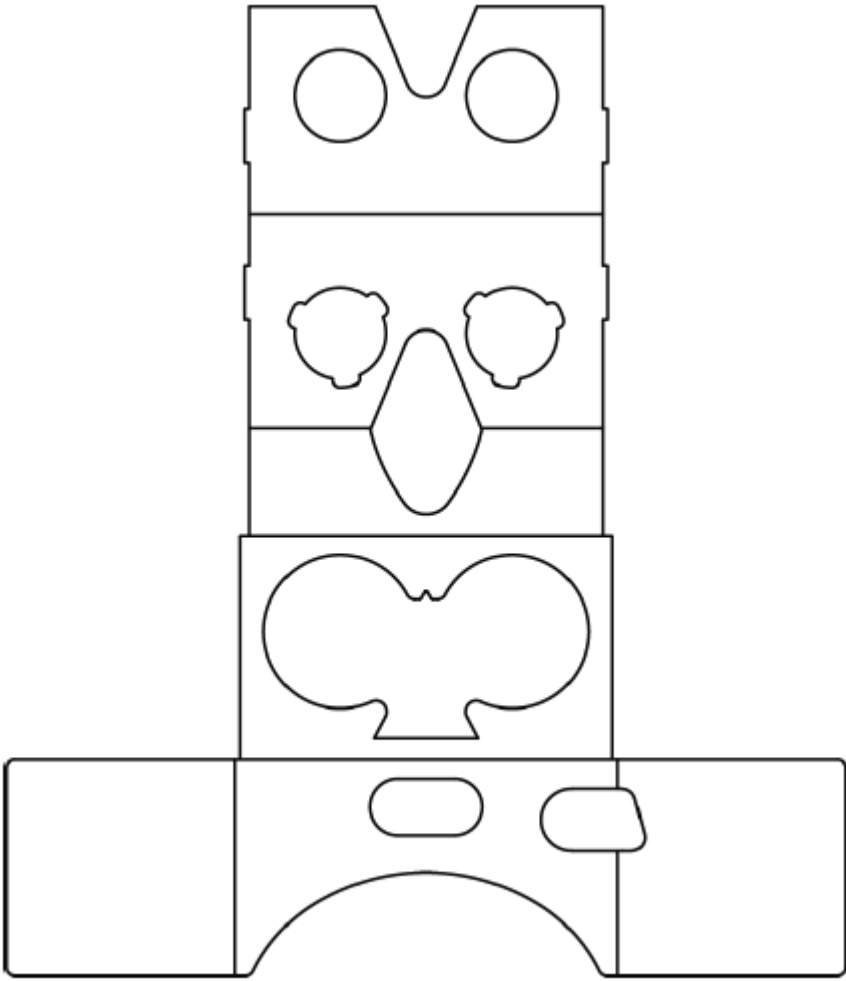
U.S. Patent No. 9,420,075 Claim 7	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015). 3.3. Button Specifications: Conductive Strip and Pillow Google Cardboard (I/O 2015) button consists of two conductive parts ("pillow" and "strip"), glued to a cardboard-based "hammer".

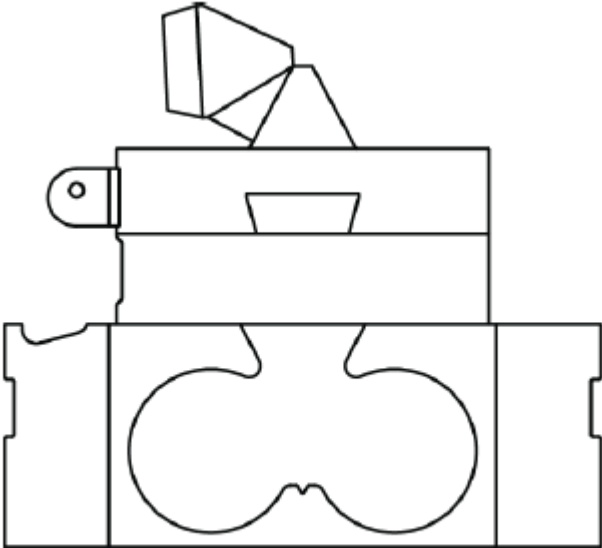
U.S. Patent No. 9,420,075 Claim 7	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")												
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Parameters	Value	Unit											
Material	Metallized fabric (polyester Ni/Cu)												
Surface resistivity	< 0.03	Ω/sq.											
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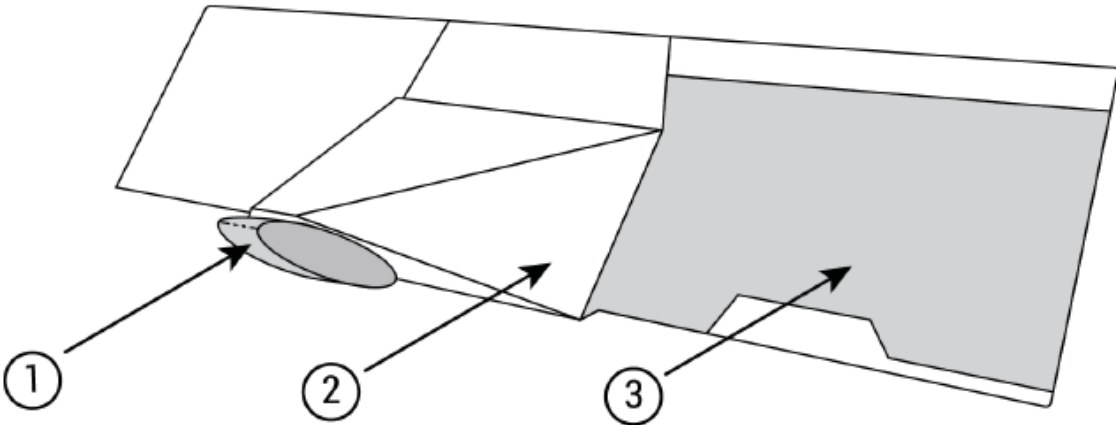
U.S. Patent No. 9,420,075 Claim 7	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")		
	<u>3.3.2. Conductive Pillow Specifications</u>		
	Parameters	Value	Unit
	Surface material	Metallized fabric (polyester Ni/Cu)	
	Core material	Soft urethane foam	
	Core surface resistivity	< 0.07	Ω /sq.
	PSA type	Conductive	
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	<i>Table 7. Conductive pillow specifications.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).		

U.S. Patent No. 9,420,075 Claim 8	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
The virtual reality viewer of claim 6, wherein the surface of the electric shield is sized to have sufficient capacitive properties such that the contact between only the portion of the surface and the touch-screen can be detected by a capacitive touch-screen when the input mechanism is in the extended position and in the absence of human contact with the electric shield.	<i>The Cardboard Viewers are virtual reality viewers as claimed in independent claim 1 and dependent claim 6.</i> <i>The surface of the electric shield of the Cardboard Viewer is sized to have sufficient capacitive properties such that the contact between only the portion of the surface and the touch-screen can be detected by a capacitive touch-screen when the input mechanism is in the extended position and in the absence of human contact with the electric shield.</i> THIS IS ESTABLISHED THROUGH AN EXPERIMENT WHEREBY THE INPUT MECHANISM WAS ACTIVATED WITH A PIECE OF CARDBOARD (NON-CONDUCTIVE) SEPARATING THE FINGER FROM THE ELECTRIC SHIELD AND OBSERVING THAT THE TOUCHSCREEN STILL DETECTED THE CONTACT. 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. 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. 9,420,075 Claim 8	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

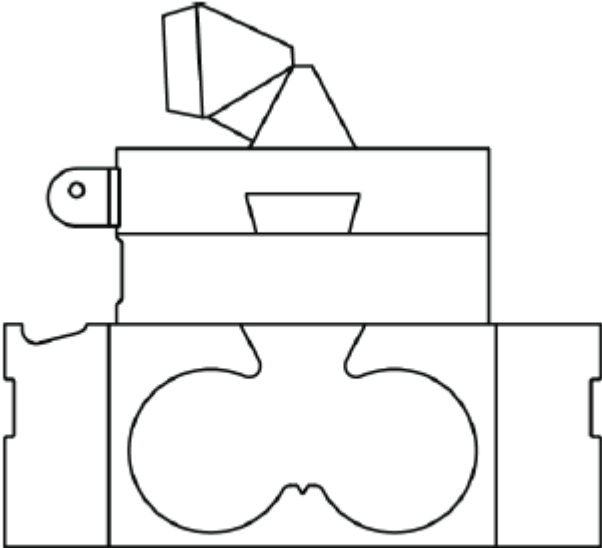
U.S. Patent No. 9,420,075 Claim 8	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i>

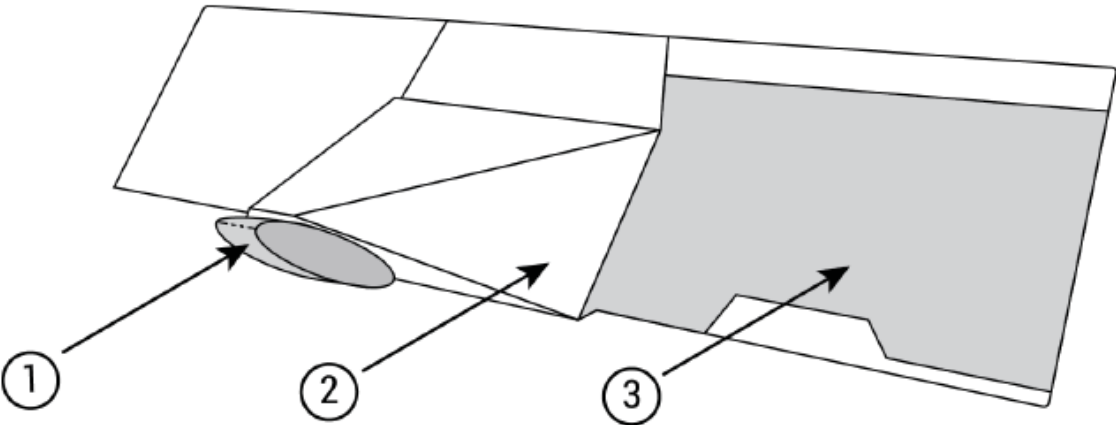
U.S. Patent No. 9,420,075 Claim 8	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015). 3.3. Button Specifications: Conductive Strip and Pillow Google Cardboard (I/O 2015) button consists of two conductive parts ("pillow" and "strip"), glued to a cardboard-based "hammer".

U.S. Patent No. 9,420,075 Claim 8	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")												
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Material	Metallized fabric (polyester Ni/Cu)												
Surface resistivity	< 0.03	Ω/sq.											
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U.S. Patent No. 9,420,075 Claim 8	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
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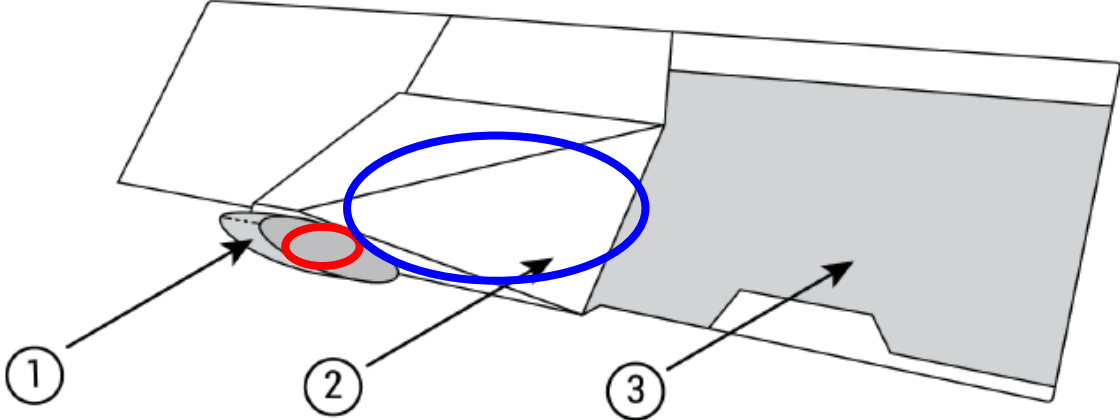
U.S. Patent No. 9,420,075 Claim 9	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
The virtual reality viewer of claim 8, wherein the only portion of the surface that is configured to contact the touch-screen when the input mechanism is in the extended position is substantially smaller in size than the remaining portion of the surface of electric shield that is not configured to contact the touch-screen.	<i>The Cardboard Viewers are virtual reality viewers as claimed in independent claim 1, dependent claim 6, and dependent claim 8.</i> <i>The only portion of the surface of the Cardboard Viewers that is configured to contact the touch-screen when the input mechanism is in the extended position is substantially smaller in size than the remaining portion of the surface of the electric shield that is not configured to contact the touch-screen.</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. 9,420,075 Claim 9	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <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. 9,420,075 Claim 9	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")												
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Parameters	Value	Unit											
Material	Metallized fabric (polyester Ni/Cu)												
Surface resistivity	< 0.03	Ω/sq.											
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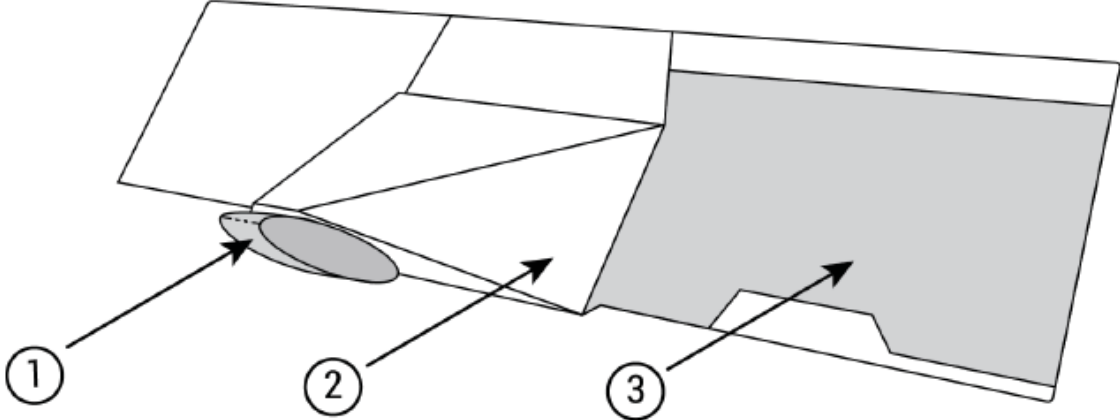
U.S. Patent No. 9,420,075 Claim 9	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")		
	<u>3.3.2. Conductive Pillow Specifications</u>		
	Parameters	Value	Unit
	Surface material	Metallized fabric (polyester Ni/Cu)	
	Core material	Soft urethane foam	
	Core surface resistivity	< 0.07	Ω /sq.
	PSA type	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. 9,420,075 Claim 10	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
The virtual reality viewer of claim 6, further comprising a compressible pad disposed between the second portion of the input mechanism and the portion of the surface of the electric shield,	<i>The Cardboard Viewers are virtual reality viewers as claimed in independent claim 1 and dependent claim 6.</i> <i>The Cardboard Viewers further comprise a compressible pad disposed between the second portion of the input mechanism and the portion of the surface of the electric shield.</i> The compressible pad of the Cardboard Viewers is the black "soft urethane foam" trapezoid-shaped "core material" (see red notation). See also annotated supplement. The second portion of the input mechanism of the Cardboard Viewers is the "hammer" (see blue notation). See also annotated supplement. GCV2 Physical Unit.

U.S. Patent No. 9,420,075 Claim 10	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".  Figure 7. Cardboard button parts: (1) - "pillow", (2) - "hammer", (3) - "conductive strip"

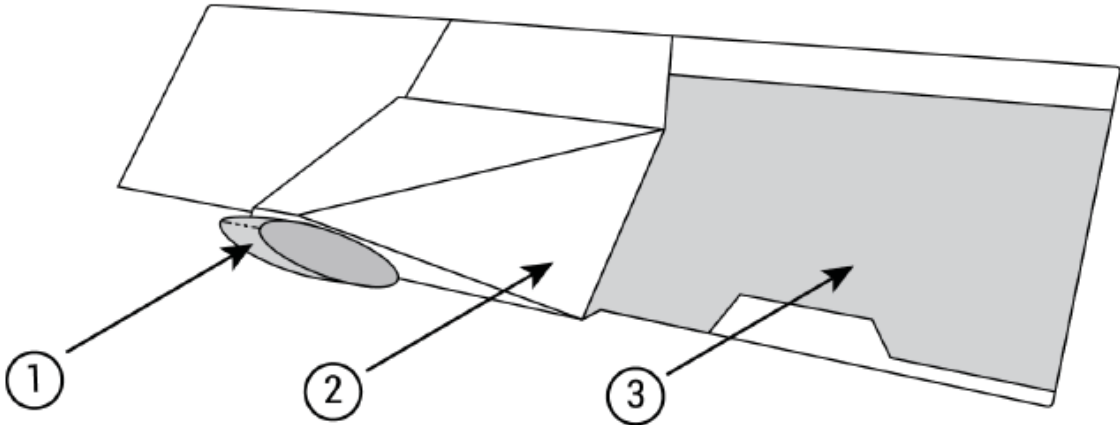
U.S. Patent No. 9,420,075 Claim 10	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")																		
	3.3.2. Conductive Pillow Specifications <table><tr><th>Parameters</th><th>Value</th><th>Unit</th></tr><tr><td>Surface material</td><td>Metallized fabric (polyester Ni/Cu)</td><td></td></tr><tr><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).	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. 9,420,075 Claim 10	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
wherein the pad is configured to create a sufficiently sized area of contact between the portion of the surface and the touch-screen when the input mechanism is in the extended position.	<i>The pad of the Cardboard Viewers is configured to create a sufficiently sized area of contact between the portion of the surface of the electric shield and the touch-screen when the input mechanism is in the extended position.</i> GCV2 Physical Unit. GCV2 Physical Unit.

U.S. Patent No. 9,420,075 Claim 10	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".  Figure 7. Cardboard button parts: (1) - "pillow", (2) - "hammer", (3) - "conductive strip"

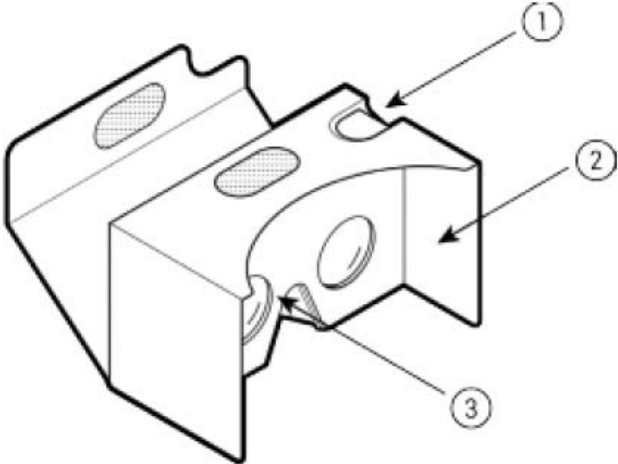
U.S. Patent No. 9,420,075 Claim 10	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")		
	<u>3.3.2. Conductive Pillow Specifications</u>		
	Parameters	Value	Unit
	Surface material	Metallized fabric (polyester Ni/Cu)	
	Core material	Soft urethane foam	
	Core surface resistivity	< 0.07	Ω /sq.
	PSA type	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).		

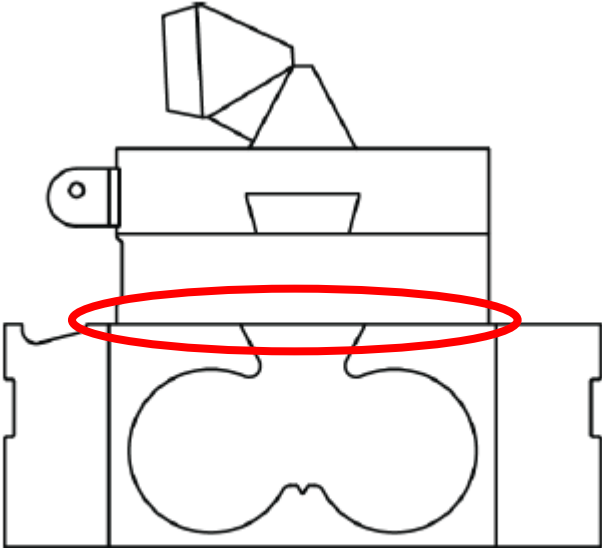
U.S. Patent No. 9,420,075 Claim 11	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
The virtual reality viewer of claim 10, wherein the pad is configured to vary the size of the area of contact between the portion of the surface of the electric shield and the touch-screen as a function of a force applied to the input mechanism from the exterior of the housing.	<i>The Cardboard Viewers are virtual reality viewers as claimed in independent claim 1, dependent claim 6, and dependent claim 10.</i> <i>The pad of the Cardboard Viewers is configured to vary the size of the area of contact between the portion of the surface of the electric shield and the touch-screen as a function of a force applied to the input mechanism from the exterior of the housing.</i> GCV2 Physical Unit. GCV2 Physical Unit.

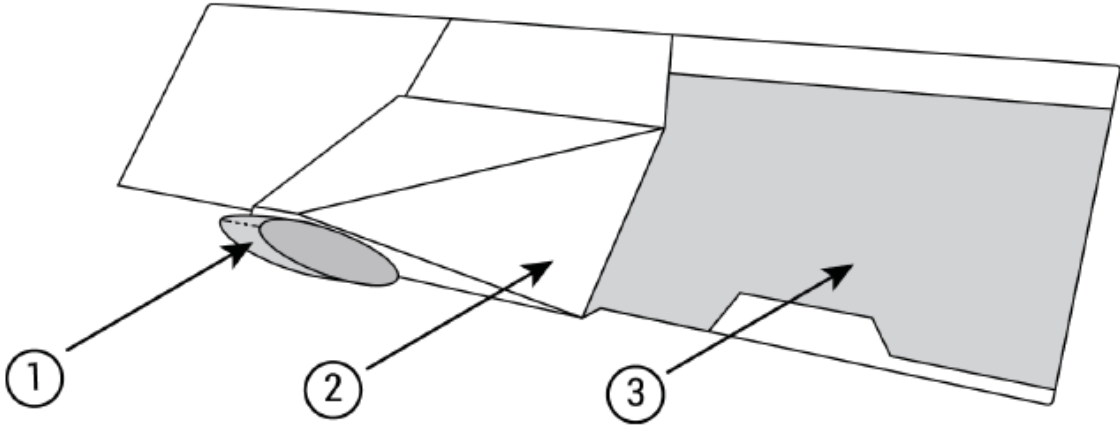
U.S. Patent No. 9,420,075 Claim 11	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	3.3. Button Specifications: Conductive Strip and Pillow Google Cardboard (I/O 2015) button consists of two conductive parts ("pillow" and "strip"), glued to a cardboard-based "hammer".  <i>Figure 7. Cardboard button parts: (1) - "pillow", (2) - "hammer", (3) - "conductive strip"</i>

U.S. Patent No. 9,420,075 Claim 11	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
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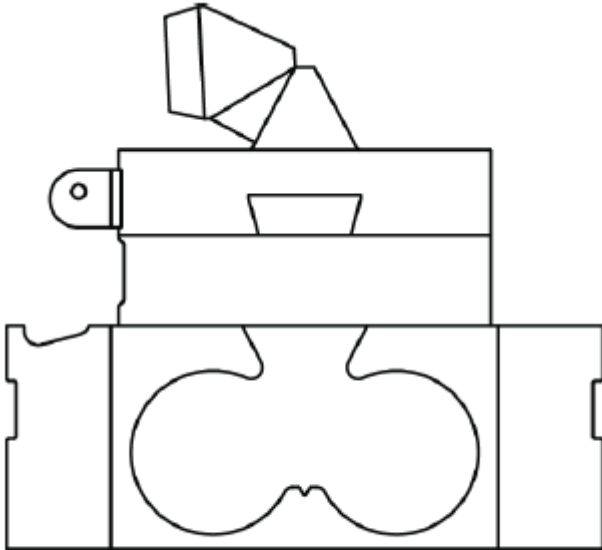
U.S. Patent No. 9,420,075 Claim 12	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
The virtual reality viewer of claim 1, wherein the input mechanism includes a lever and a flexible linkage coupled to the housing,	<i>The Cardboard Viewers are virtual reality viewers as claimed in independent claim 1.</i> <i>The input mechanism of the Cardboard Viewers includes a lever and a flexible linkage coupled to the housing.</i> The flexible linkage of the Cardboard Viewers is the cardboard portion of the input mechanism coupled to the housing and which deforms upon depression of the lever and returns to its original position upon cessation of depression. See also annotated supplement.

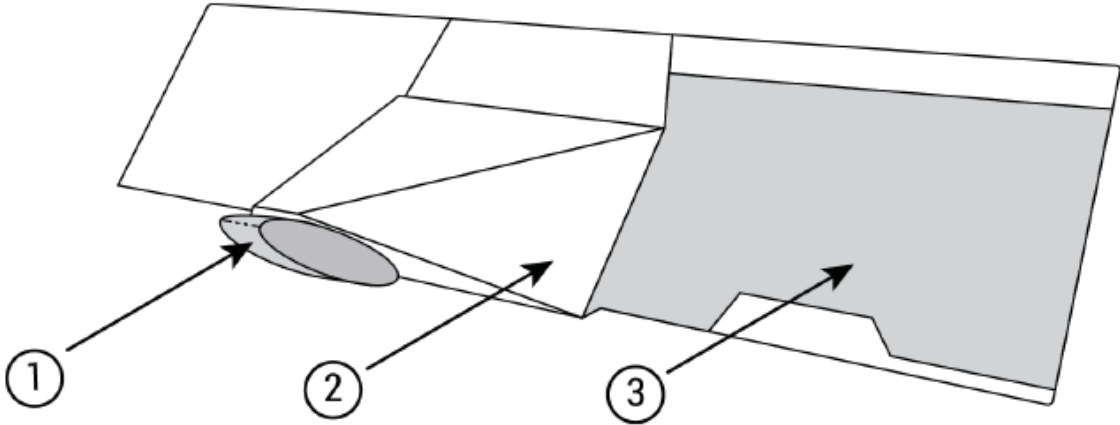
U.S. Patent No. 9,420,075 Claim 12	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 Figure 1. Typical components of a Google Cardboard viewer: (1) - input, (2) - enclosure, (3) - lenses. Google Cardboard Best Practices – Version 3.0 (2020). 3.2. Cardboard Mechanical Design Specifications 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. 9,420,075 Claim 12	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <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".

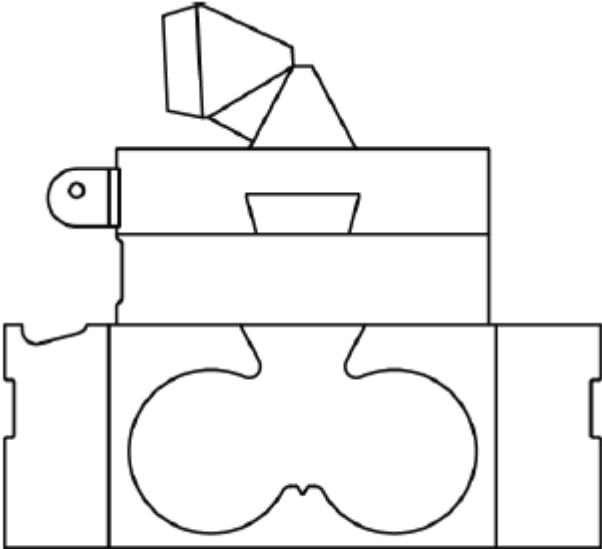
U.S. Patent No. 9,420,075 Claim 12	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 7. Cardboard button parts: (1) - "pillow", (2) - "hammer", (3) - "conductive strip"</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015). 2. The button should be easily pushable down. After releasing it should spring back. Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

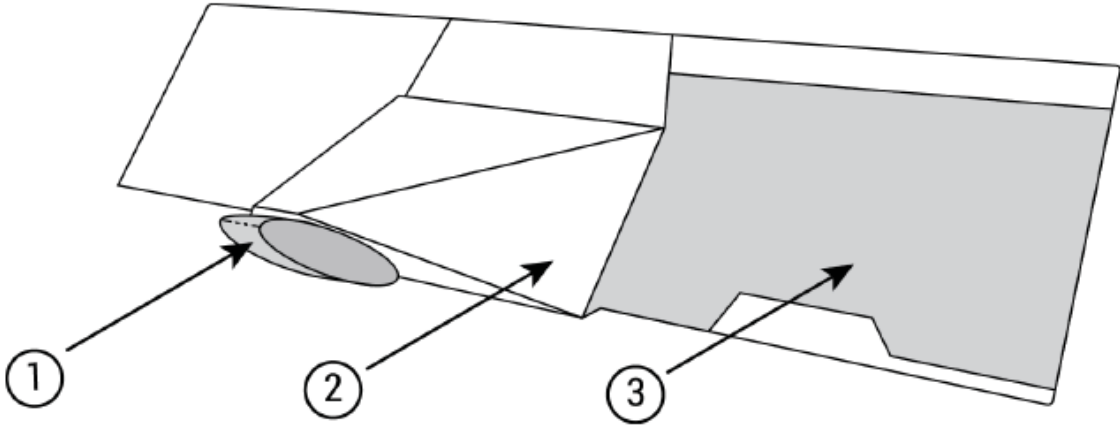
U.S. Patent No. 9,420,075 Claim 12	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
wherein the flexible linkage is configured to deform when the lever is actuated and thereby guide at least the portion of the surface between the first position and the extended position.	<i>The flexible linkage of the Cardboard Viewers is configured to deform when the lever is actuated and thereby guide at least the portion of the surface between the first position and the extended position.</i> A close-up photograph of the internal mechanism of the Google Cardboard GCV2 VR viewer. It shows a black plastic lever and a flexible, curved linkage that connects it to the front of the viewer. Two circular lenses are visible on the left side of the frame. GCV2 Physical Unit. A photograph of the Google Cardboard GCV2 VR viewer from a top-down perspective. The cardboard housing is open, revealing the internal black plastic lever and flexible linkage mechanism. The viewer is resting on a dark, reflective surface. GCV2 Physical Unit.

U.S. Patent No. 9,420,075 Claim 12	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".

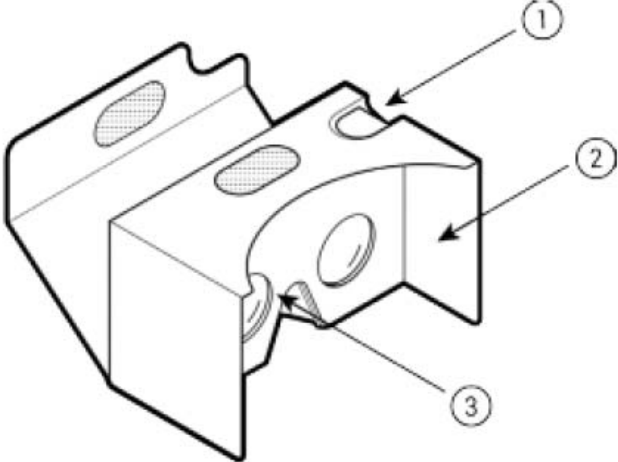
U.S. Patent No. 9,420,075 Claim 12	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 7. Cardboard button parts: (1) - "pillow", (2) - "hammer", (3) - "conductive strip"</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015). 2. The button should be easily pushable down. After releasing it should spring back. Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

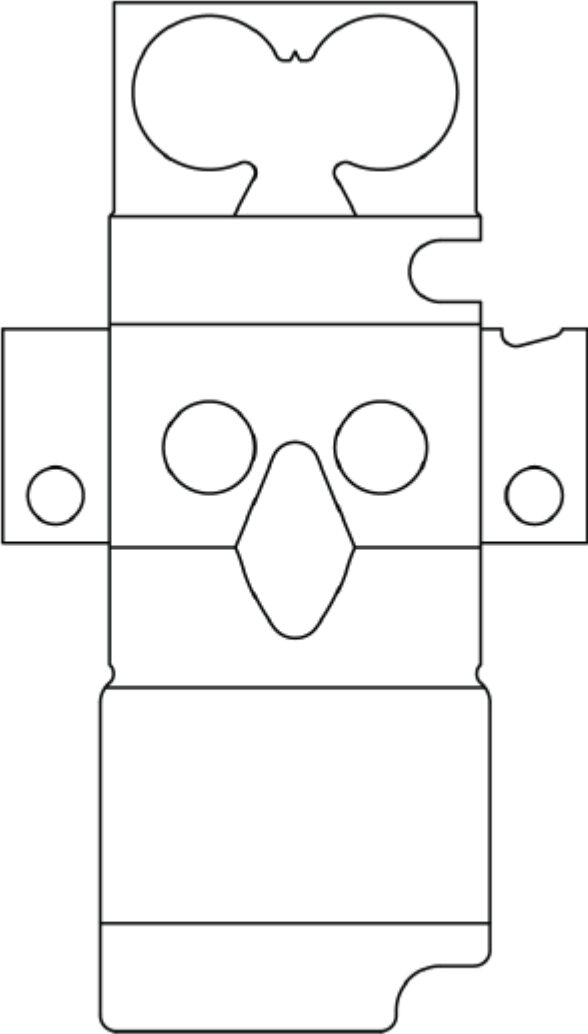
U.S. Patent No. 9,420,075 Claim 14	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
The virtual reality viewer of claim 12, wherein the flexible linkage is configured to return the portion of the surface from the extended position to the first position in the absence of user interaction with the input mechanism.	<i>The Cardboard Viewers are virtual reality viewers as claimed in independent claim 1 and dependent claim 12.</i> <i>The flexible linkage of the Cardboard Viewers is configured to return the portion of the surface from the extended position to the first position in the absence of user interaction with the input mechanism.</i> GCV2 Physical Unit. GCV2 Physical Unit.

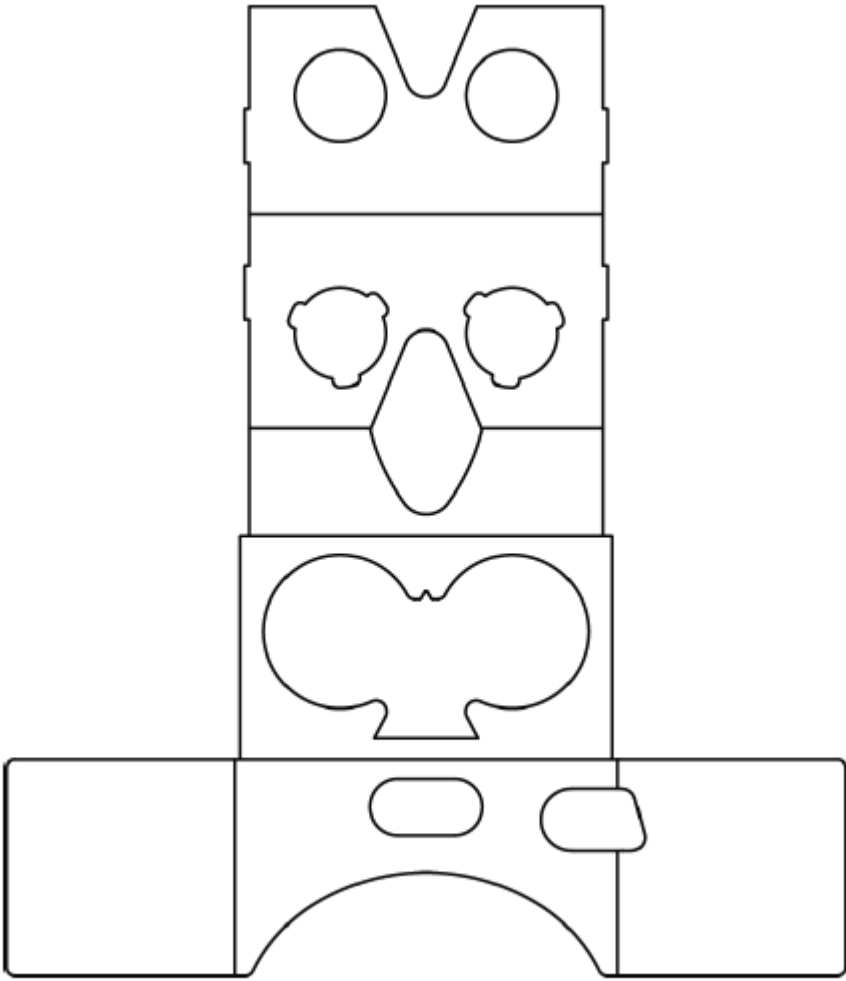
U.S. Patent No. 9,420,075 Claim 14	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	3.2. Cardboard Mechanical Design Specifications Google Cardboard (I/O 2015) mechanical body consists of three distinct parts: chassis, t-shirt and button. Each of these parts is made from the corrugated cardboard.  <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".

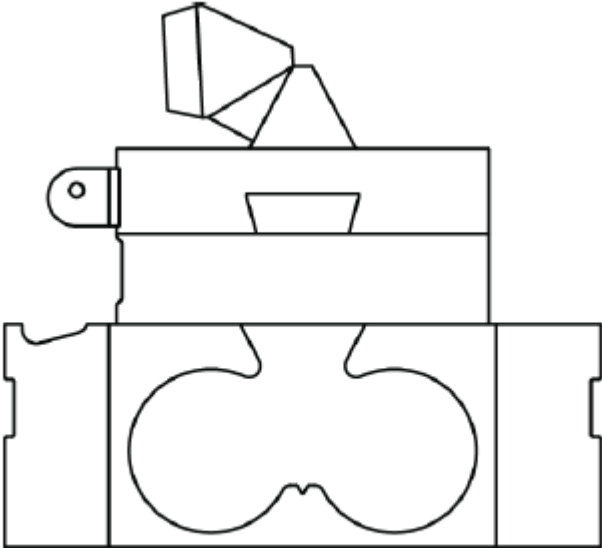
U.S. Patent No. 9,420,075 Claim 14	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 7. Cardboard button parts: (1) - "pillow", (2) - "hammer", (3) - "conductive strip"</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015). 2. The button should be easily pushable down. After releasing it should spring back. Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
A virtual reality viewer for use with a mobile electronic device having a capacitive touch-screen, the viewer comprising:	<i>The Cardboard Viewers are virtual reality viewers for use with a mobile electronic device having a capacitive touch screen (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.

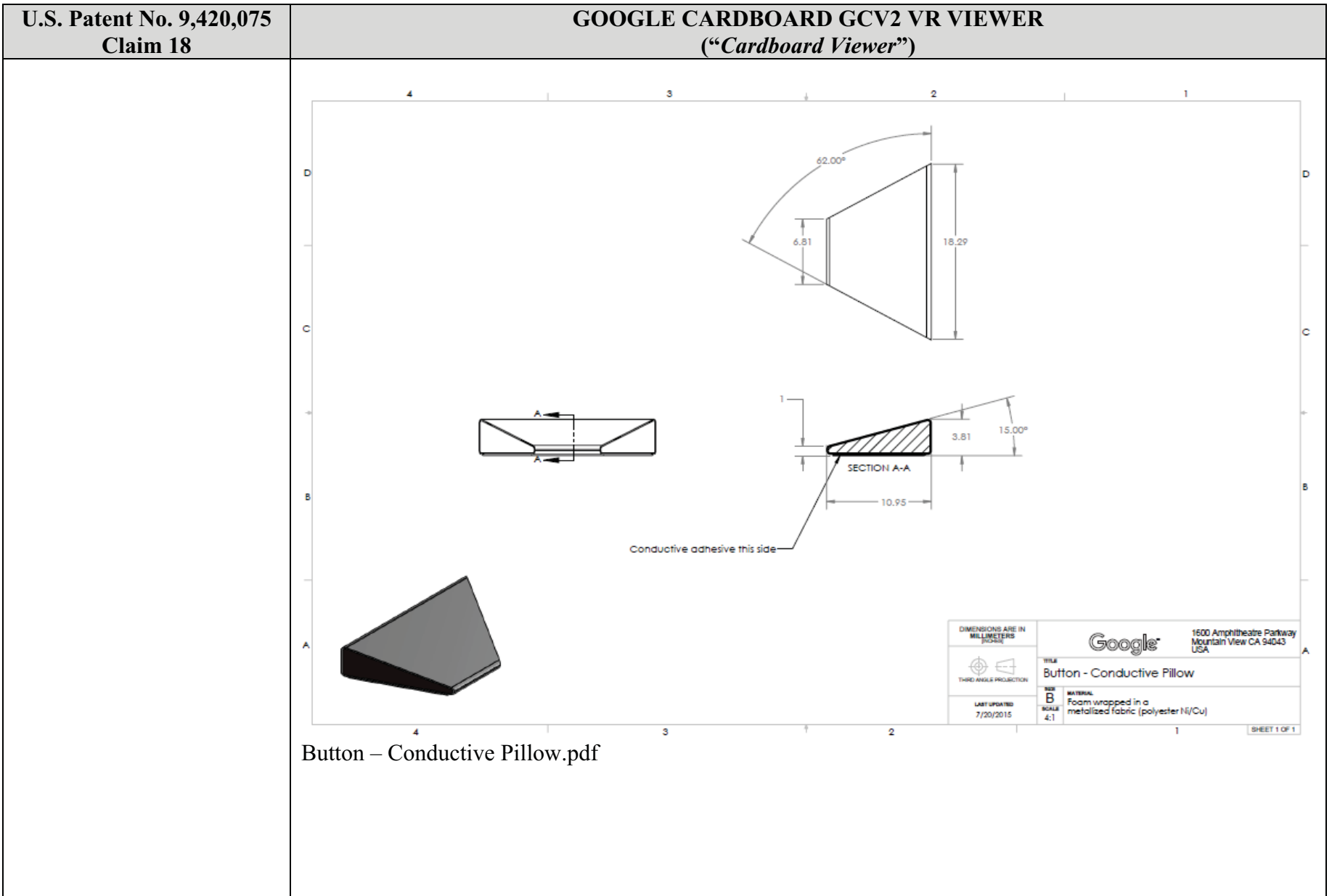
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 Figure 1. Typical components of a Google Cardboard viewer: (1) - input, (2) - enclosure, (3) - lenses. Google Cardboard Best Practices – Version 3.0 (2020). 3.2. Cardboard Mechanical Design Specifications Google 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. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

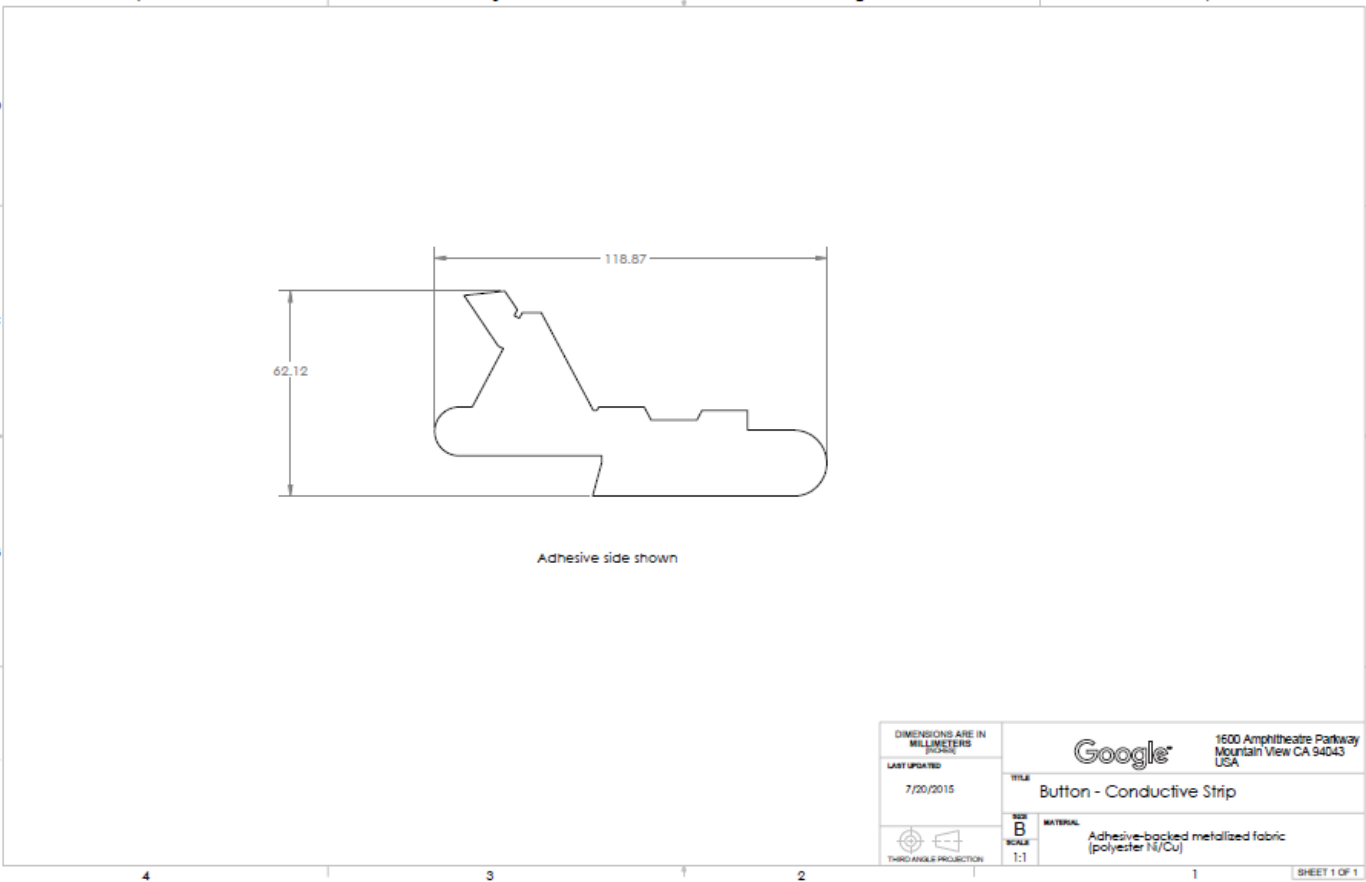
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i>

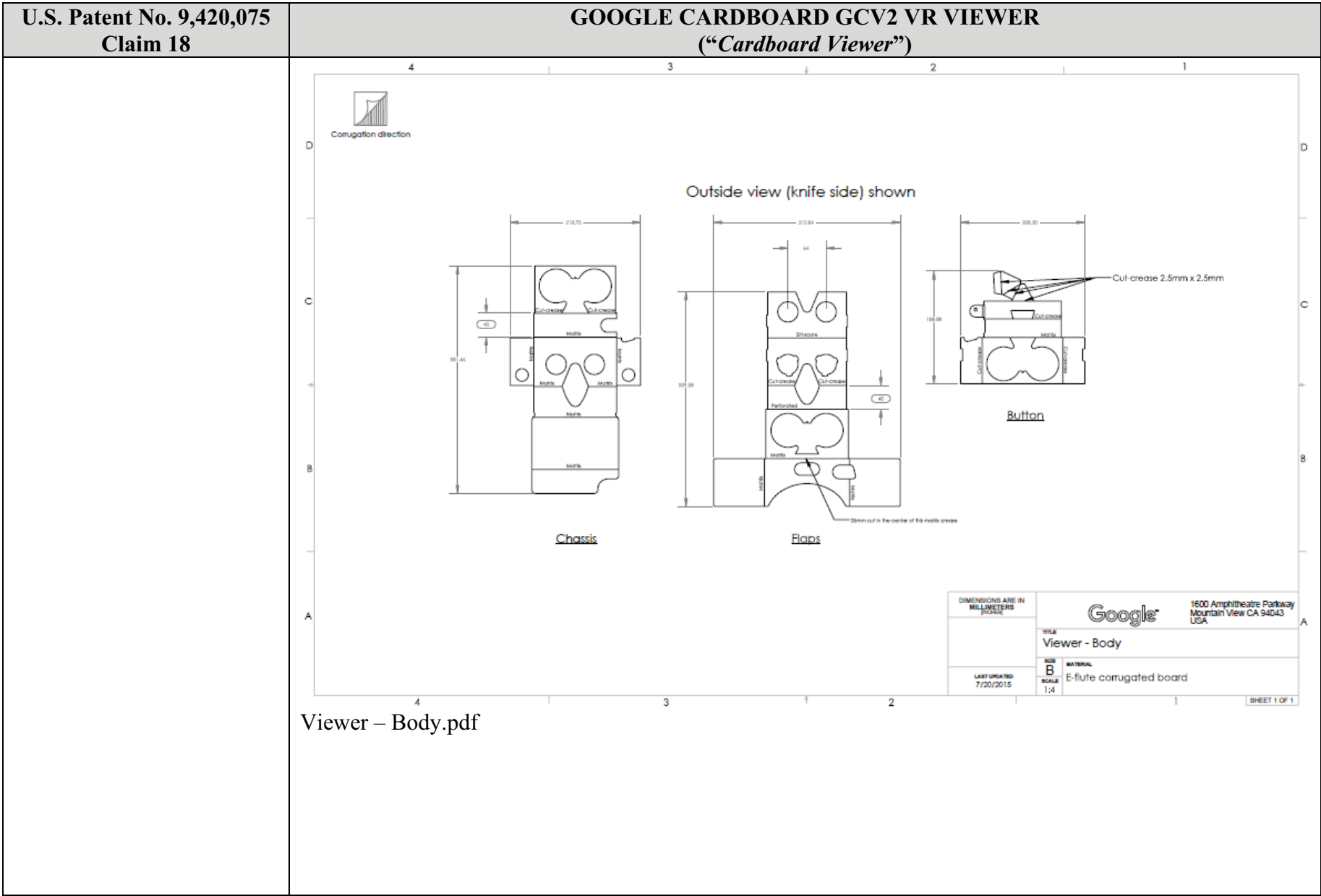
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")																											
	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> Table 13: Corrugate tooling verification specifications. 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	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	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	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	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																								



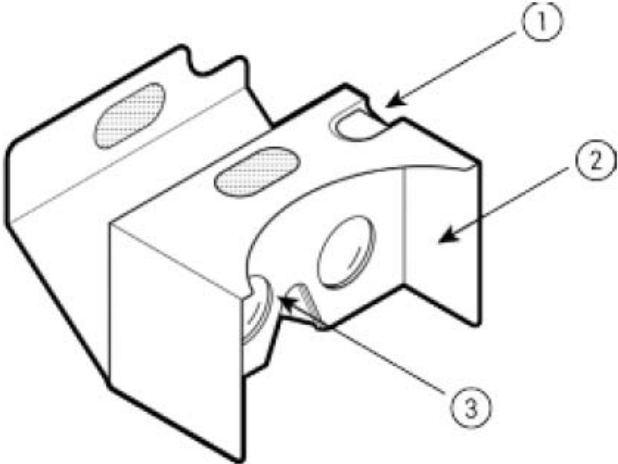
Button – Conductive Pillow.pdf

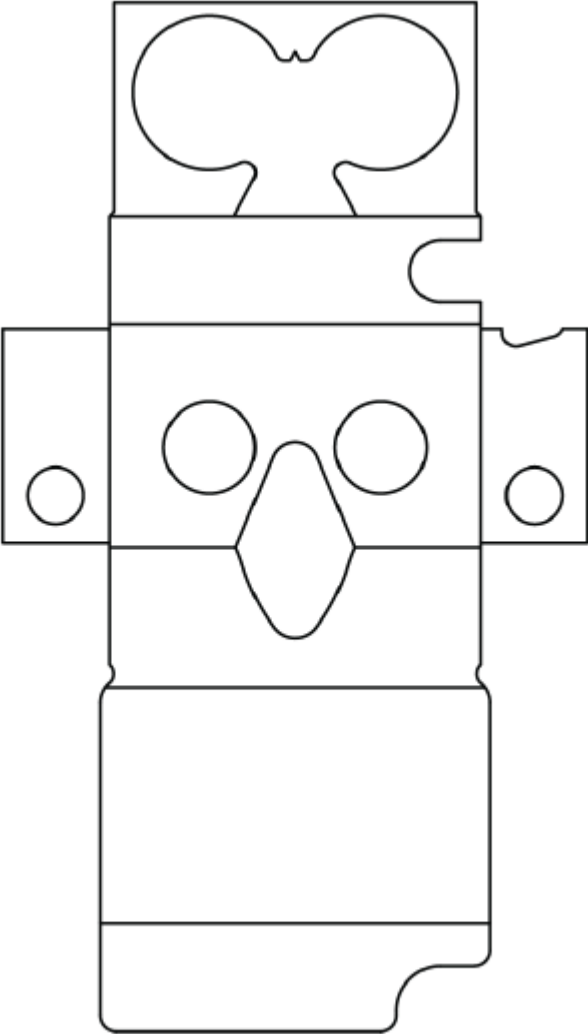
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 Technical drawing of a conductive strip, labeled "Button - Conductive Strip". The drawing shows the adhesive side of the strip. Dimensions are provided: a width of 118.87 and a height of 62.12. The drawing is oriented with a coordinate system (A, B, C, D) and a scale bar (1, 2, 3, 4). The title block includes the Google logo, address (1600 Amphitheatre Parkway, Mountain View, CA 94043, USA), and sheet information (SHEET 1 OF 1). Button - Conductive Strip.pdf

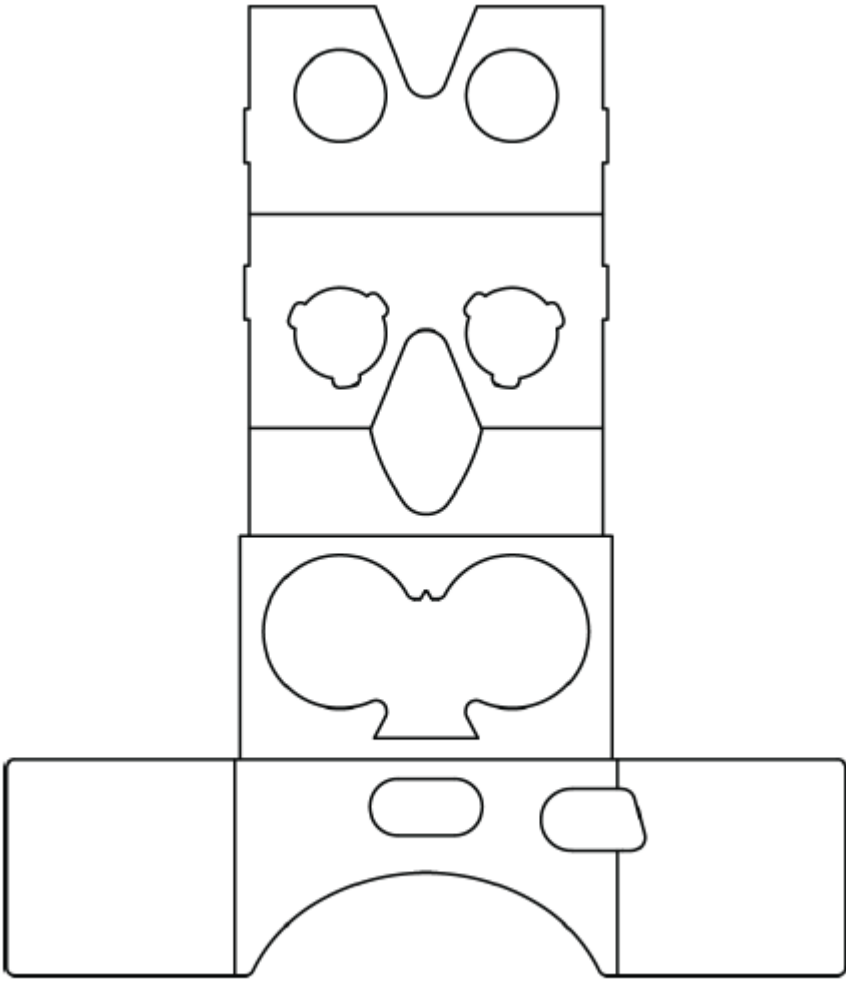


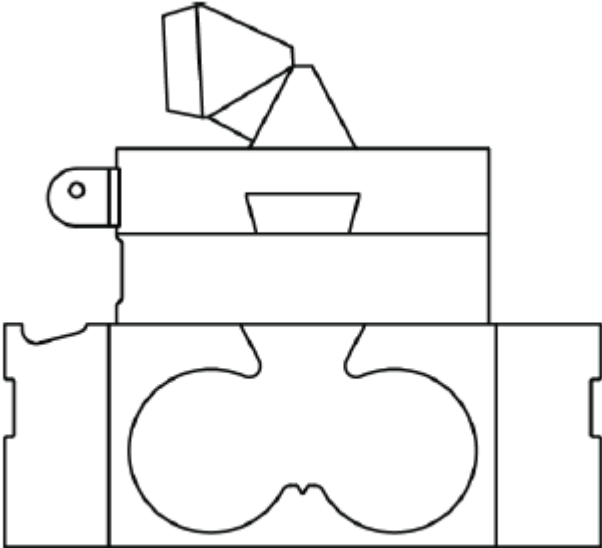
Viewer – Body.pdf

U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
a housing configured to receive the mobile electronic device and substantially enclose the touch-screen within a generally hollow interior of the housing, wherein the housing holds the touch-screen in a position that is generally centered in a horizontal direction and directly in a user’s field of view when viewing the touch-screen through a back wall of the housing, wherein the backwall is opposite the touch-screen and includes a left and a right lens for viewing a left region and a right region of the interior and the touch-screen;	<i>The Cardboard Viewers comprise a housing configured to receive the mobile electronic device and substantially enclose the touch-screen within a generally hollow interior of the housing.</i> GCV2 Physical Unit.

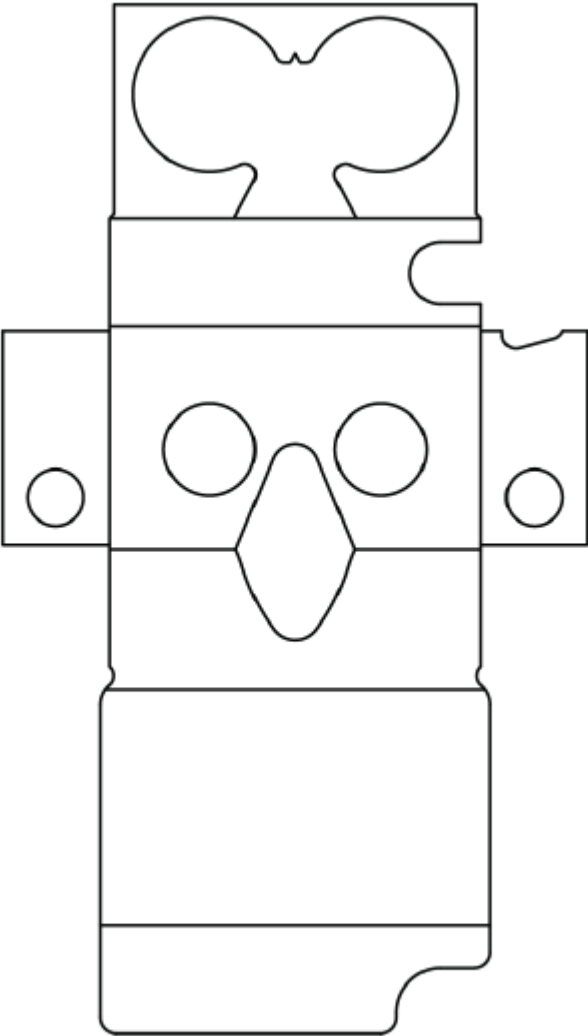
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 Figure 1. Typical components of a Google Cardboard viewer: (1) - input, (2) - enclosure, (3) - lenses. Google Cardboard Best Practices – Version 3.0 (2020). 3.2. Cardboard Mechanical Design Specifications Google 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.

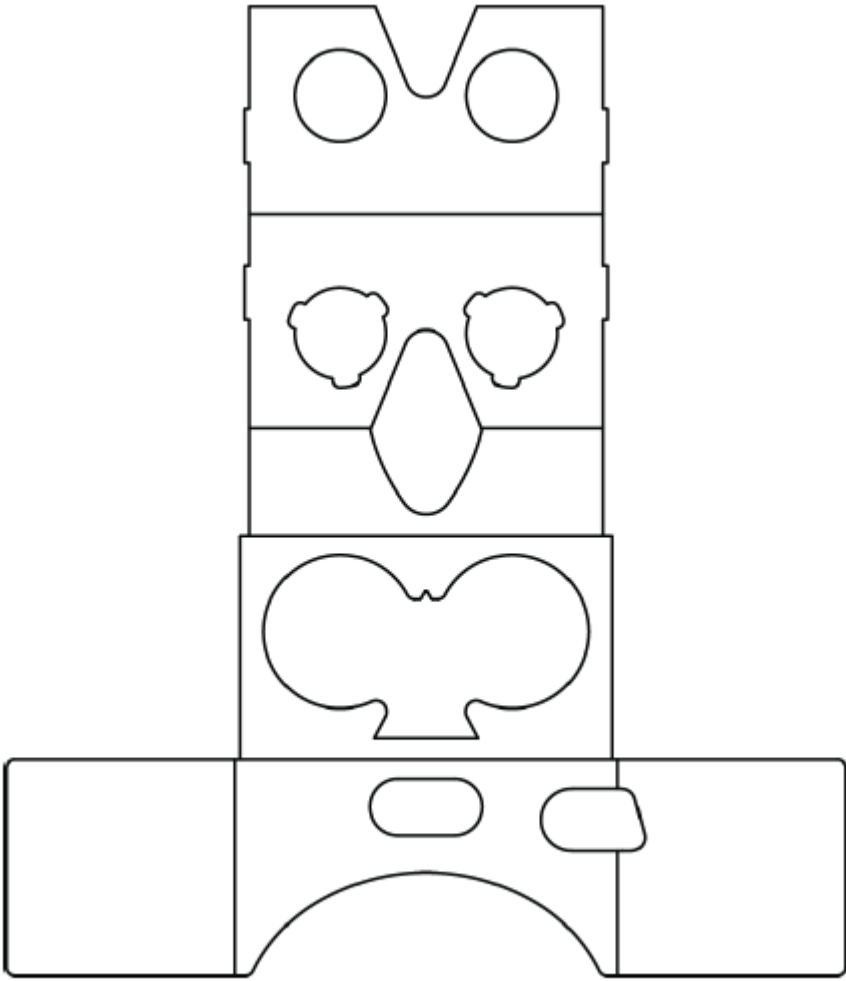
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

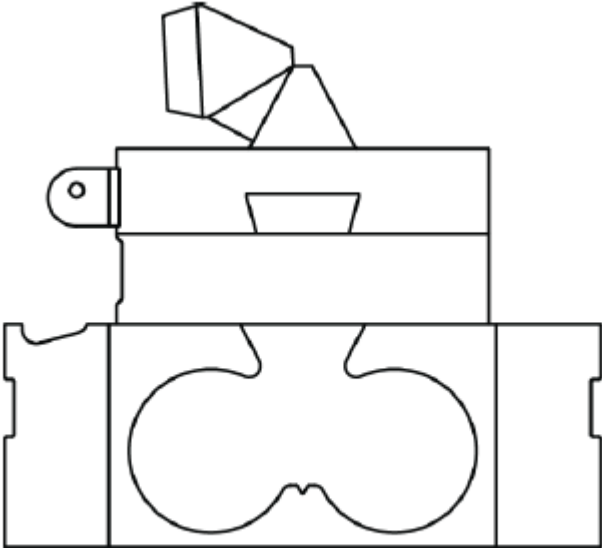
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i>

U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

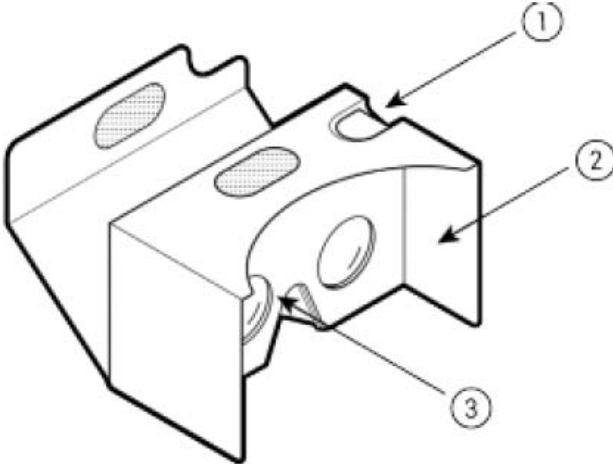
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
	<i>The housing of the Cardboard Viewers holds the touch-screen in a position that is generally centered in a horizontal direction and directly in a user’s field of view when viewing the touch-screen through a back wall of the housing.</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.

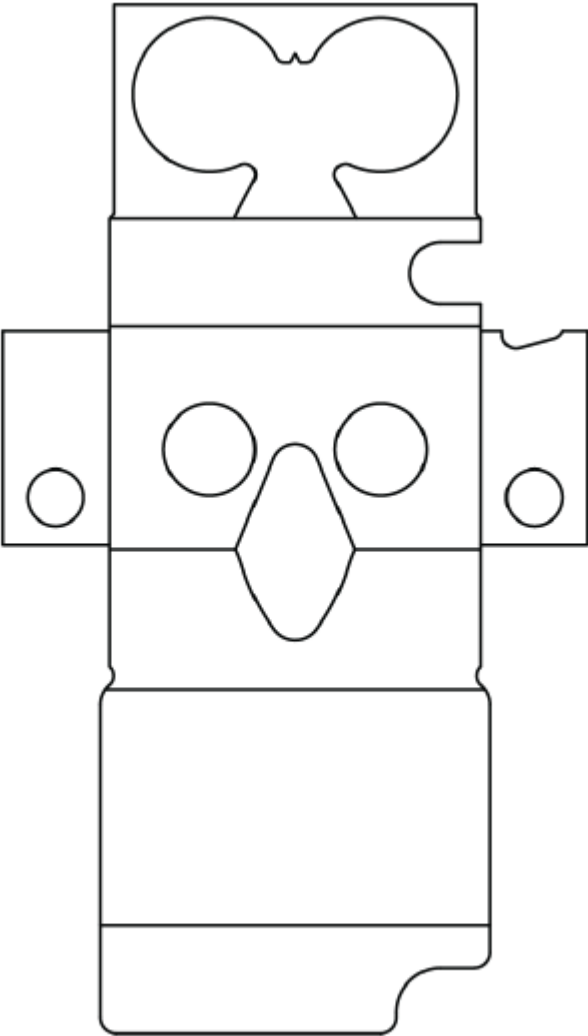
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

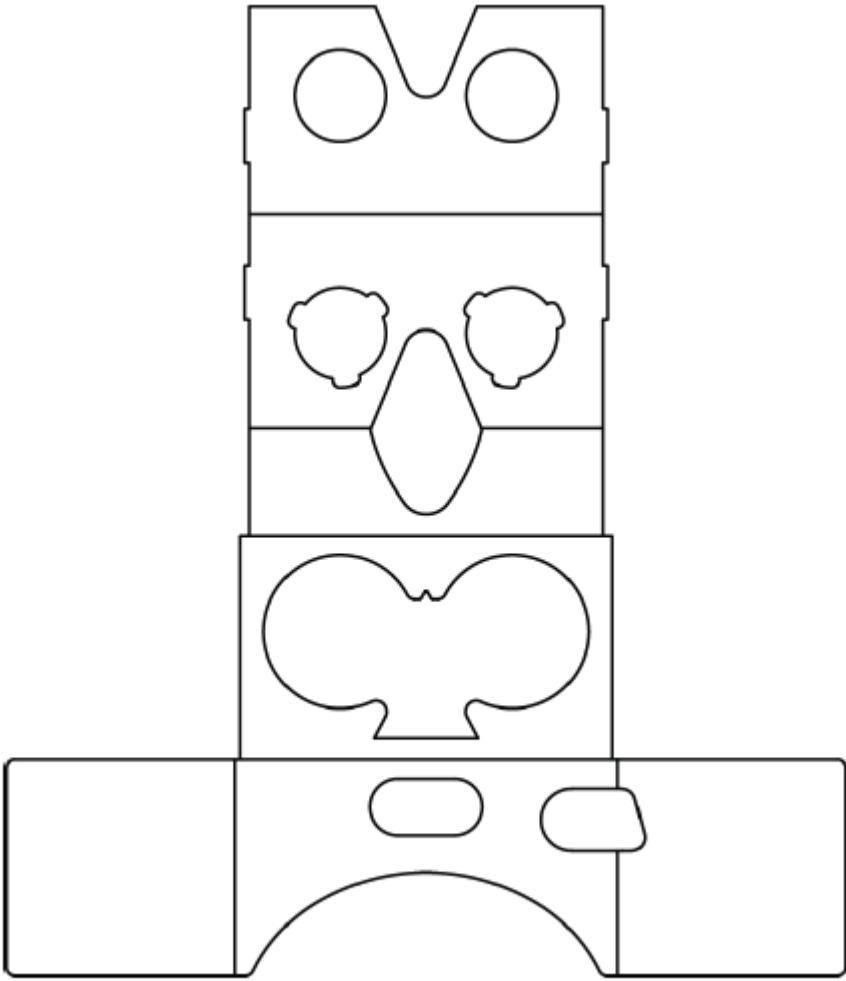
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i>

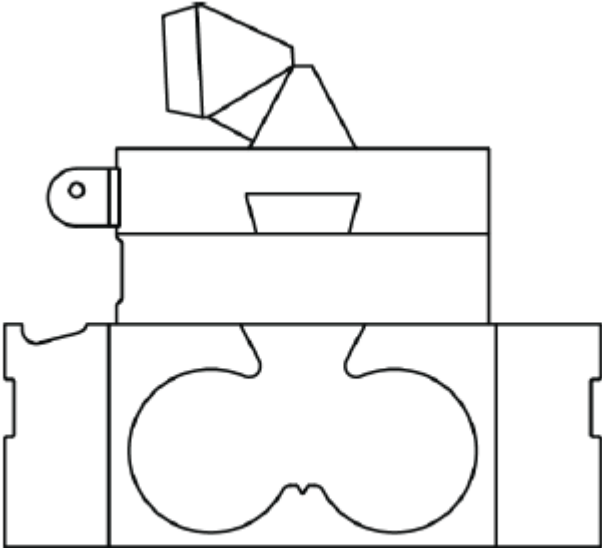
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015). 3. The conductive pillow should be centered within the phone-facing apertures, 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. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	<i>The backwall of the Cardboard Viewers is opposite the touch-screen and includes a left and a right lens for viewing a left region and a right region of the interior and the touch-screen.</i>  GCV2 Physical Unit.

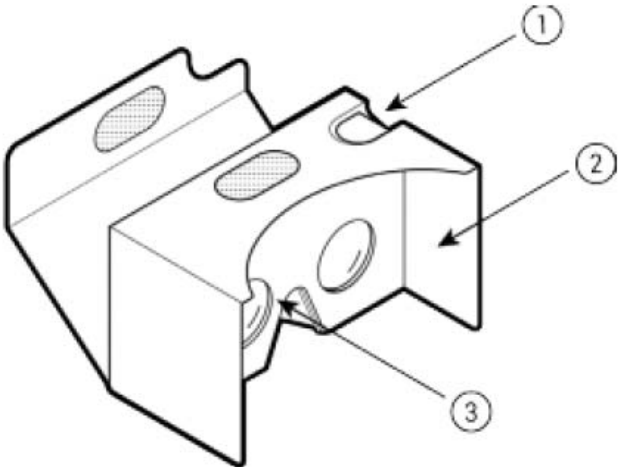
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 Figure 1. Typical components of a Google Cardboard viewer: (1) - input, (2) - enclosure, (3) - lenses. Google Cardboard Best Practices – Version 3.0 (2020). 3. Design Specifications This section provides the technical 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.

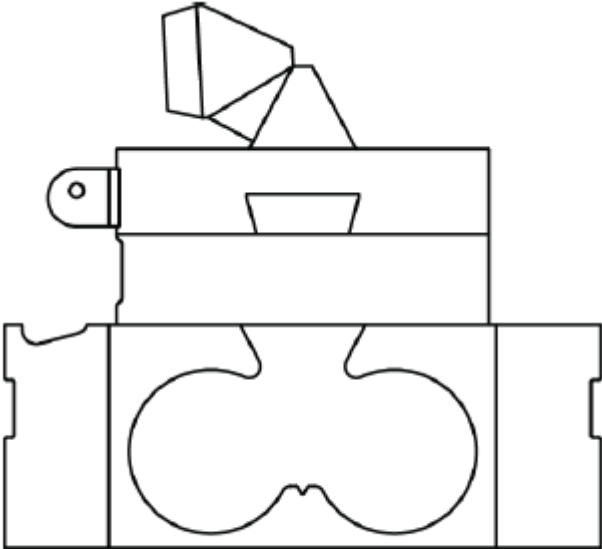
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

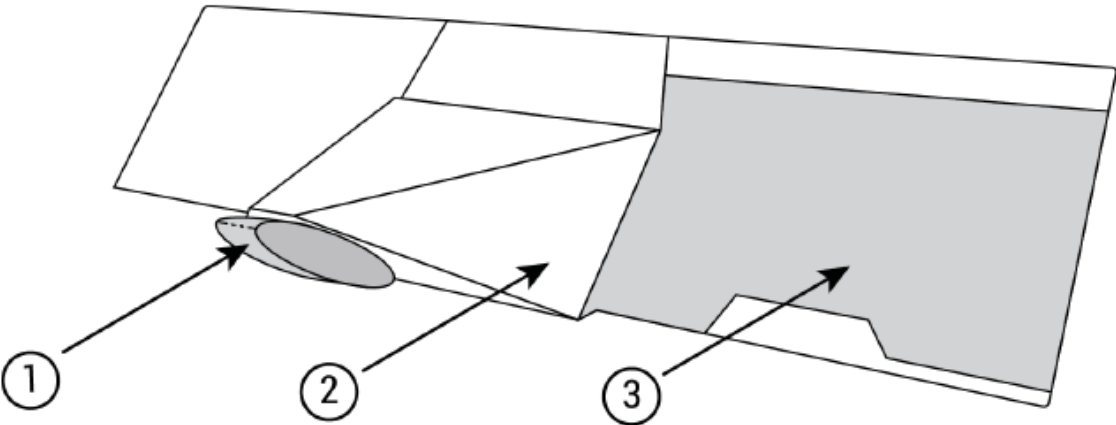
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i>

U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
an input device including,	<i>The Cardboard Viewers comprise an input device.</i>  GCV2 Physical Unit.

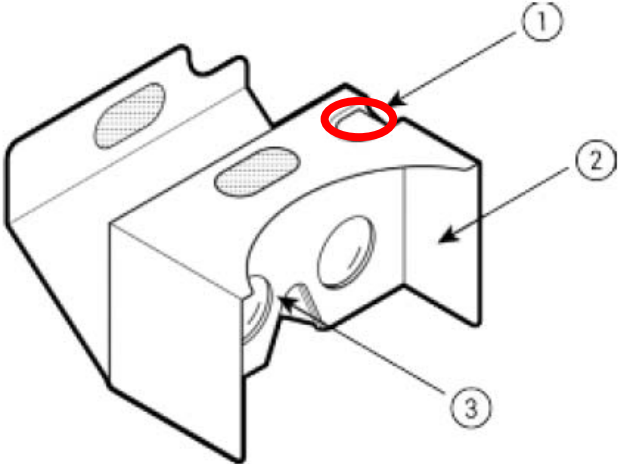
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 Figure 1. Typical components of a Google Cardboard viewer: (1) - input, (2) - enclosure, (3) - lenses. Google Cardboard Best Practices – Version 3.0 (2020). 3. Design Specifications This section provides the technical 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).

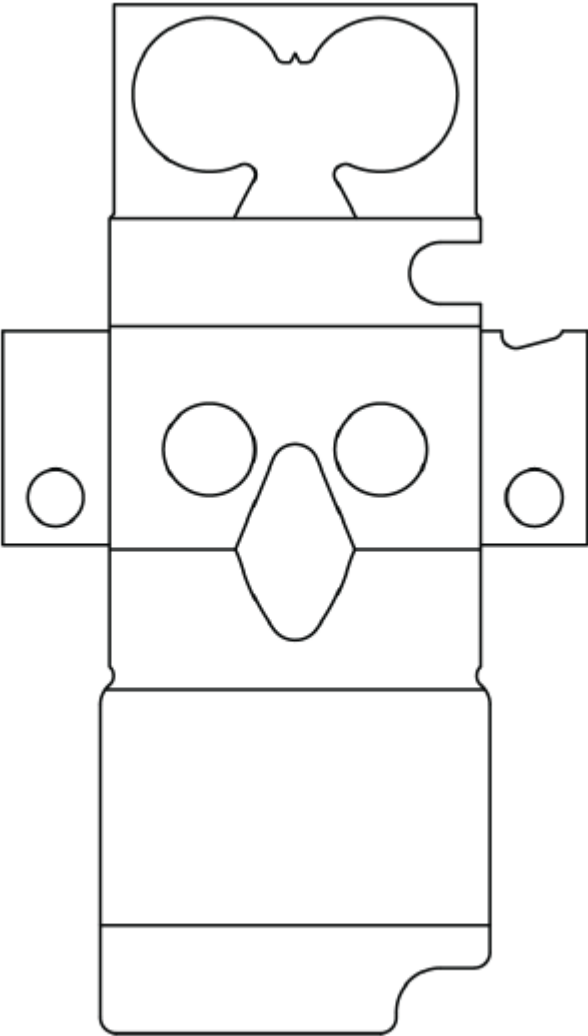
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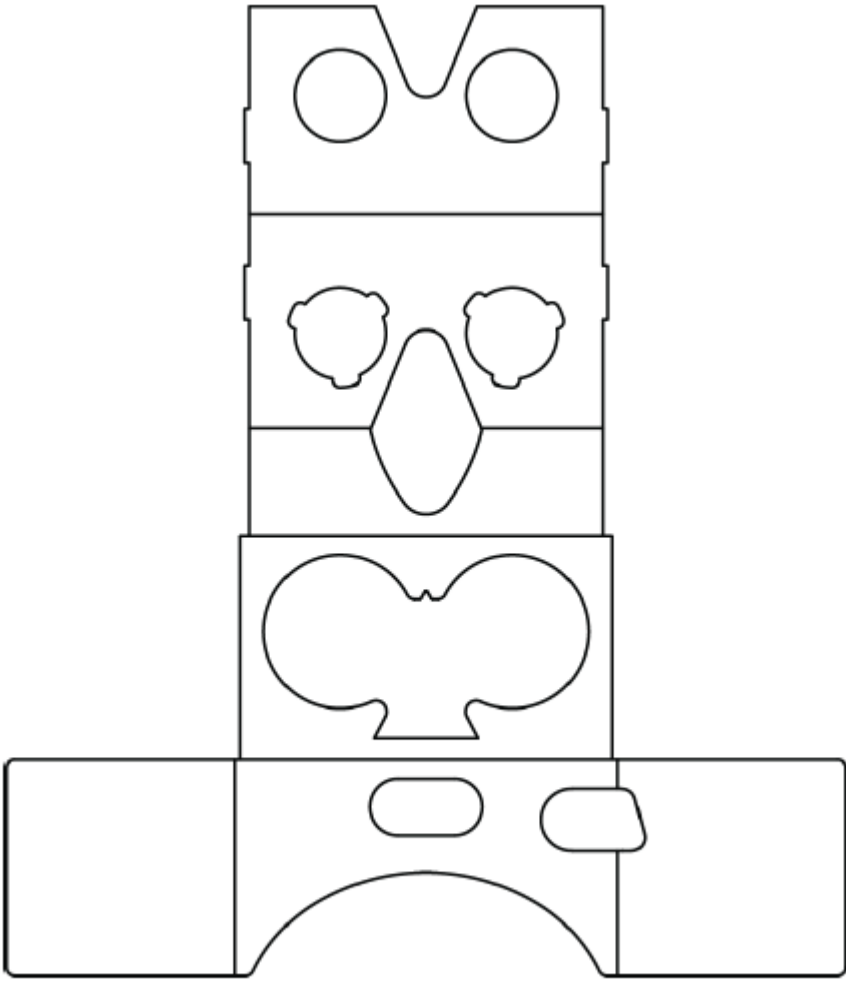
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")												
	 Figure 7. Cardboard button parts: (1) - "pillow", (2) - "hammer", (3) - "conductive strip" 3.3.1. <u>Conductive Strip Specifications</u> <table><tr><th>Parameters</th><th>Value</th><th>Unit</th></tr><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											

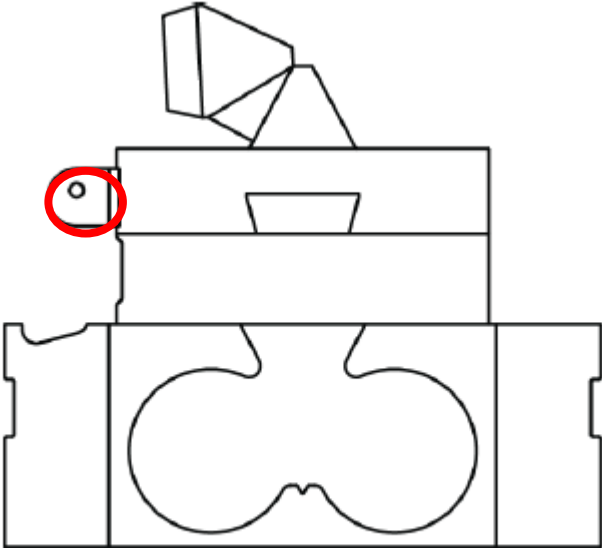
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")		
	<u>3.3.2. Conductive Pillow Specifications</u>		
	Parameters	Value	Unit
	Surface material	Metallized fabric (polyester Ni/Cu)	
	Core material	Soft urethane foam	
	Core surface resistivity	< 0.07	Ω/sq.
	PSA type	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. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
a first portion that is accessible from an exterior of the housing, and	<i>The input device of the Cardboard Viewers includes a first portion that is accessible from an exterior of the housing.</i> GCV2 Physical Unit. The first portion of the Cardboard Viewers is the cardboard portion that a user actuates (referred to as the "input" by Google) (in red). See also annotated supplement.

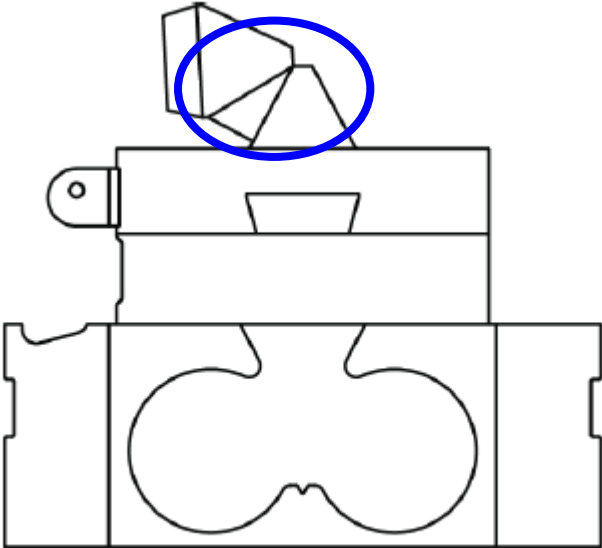
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 Figure 1. Typical components of a Google Cardboard viewer: (1) - input, (2) - enclosure, (3) - lenses. Google Cardboard Best Practices – Version 3.0 (2020). 3.2. Cardboard Mechanical Design Specifications Google 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.

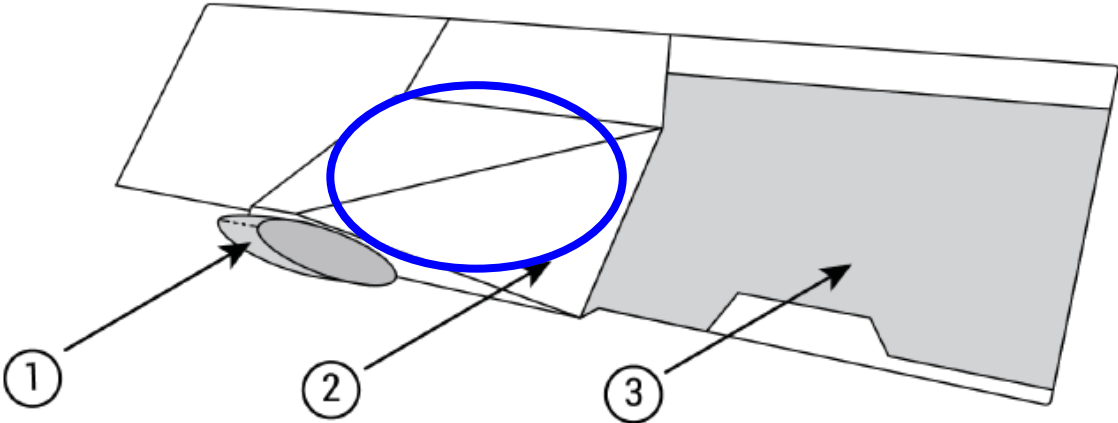
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i>

U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

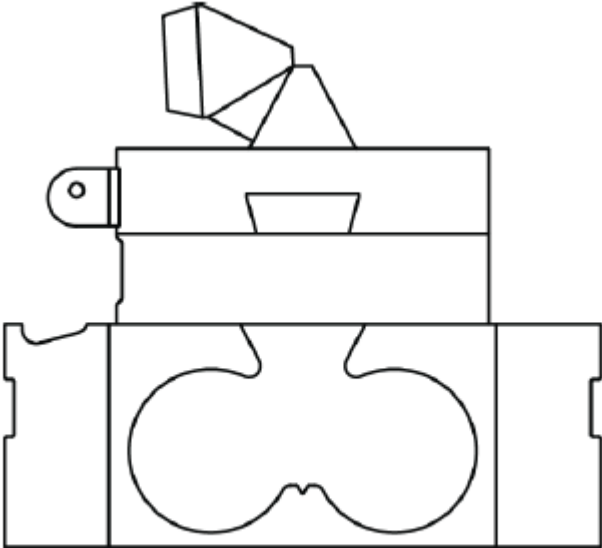
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
an elongate[d] second portion disposed within the interior of the housing between the left and right regions wherein the second portion is generally oriented in a vertical direction that is perpendicular to the horizontal direction;	<i>The input device of the Cardboard Viewers includes an elongated second portion disposed within the interior of the housing between the left and right regions wherein the second portion is generally oriented in a vertical direction that is perpendicular to the horizontal direction.</i> The second portion of the Cardboard Viewers is the cardboard component in the interior (referred to as the "hammer" by Google) (in blue). See also annotated supplement. 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.

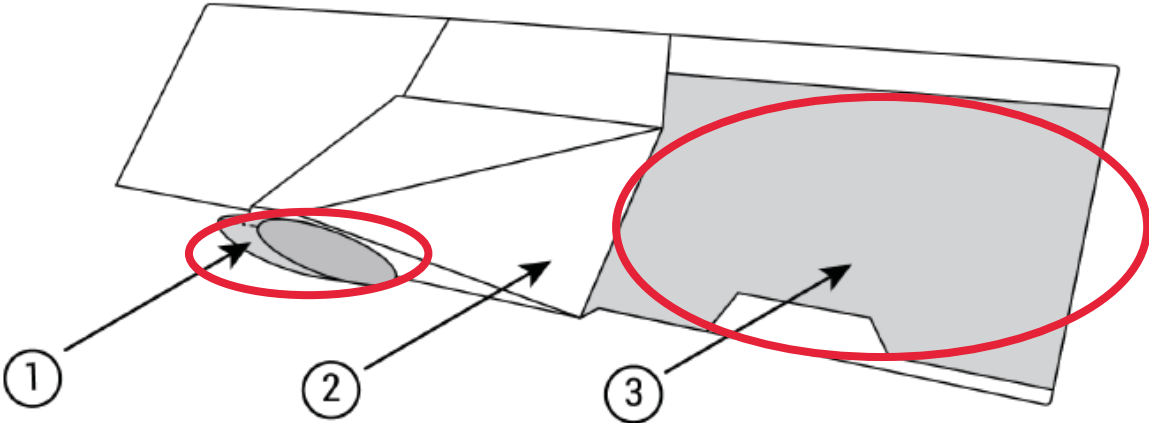
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015). 3.3. Button Specifications: Conductive Strip and Pillow Google Cardboard (I/O 2015) button consists of two conductive parts ("pillow" and "strip"), glued to a cardboard-based "hammer".

U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")												
	 Figure 7. Cardboard button parts: (1) - "pillow", (2) - "hammer", (3) - "conductive strip" 3.3.1. <u>Conductive Strip Specifications</u> <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. 9,420,075 Claim 18	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).		

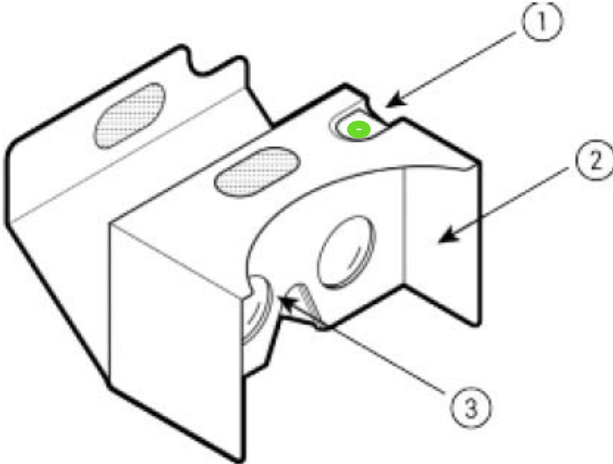
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
an electric shield,	<i>The Cardboard Viewers include an electric shield.</i> GCV2 Physical Unit. The electric shield of the Cardboard Viewers is the portion of the Cardboard Viewers comprising the metalized fabric (polyester nickle/copper) that encases the "pillow" and the "conductive strip." 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.

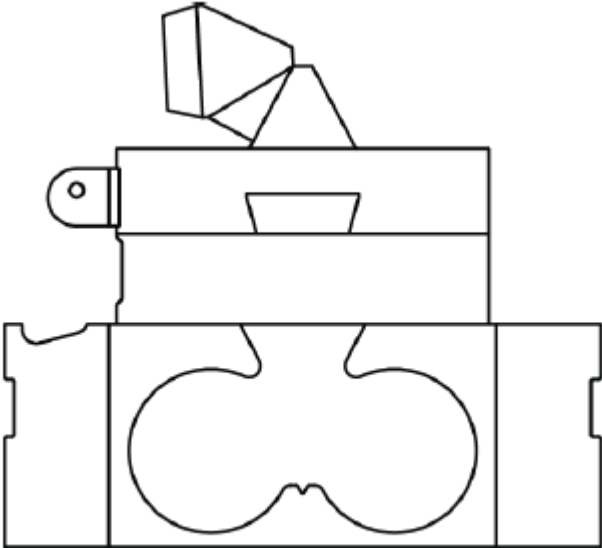
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
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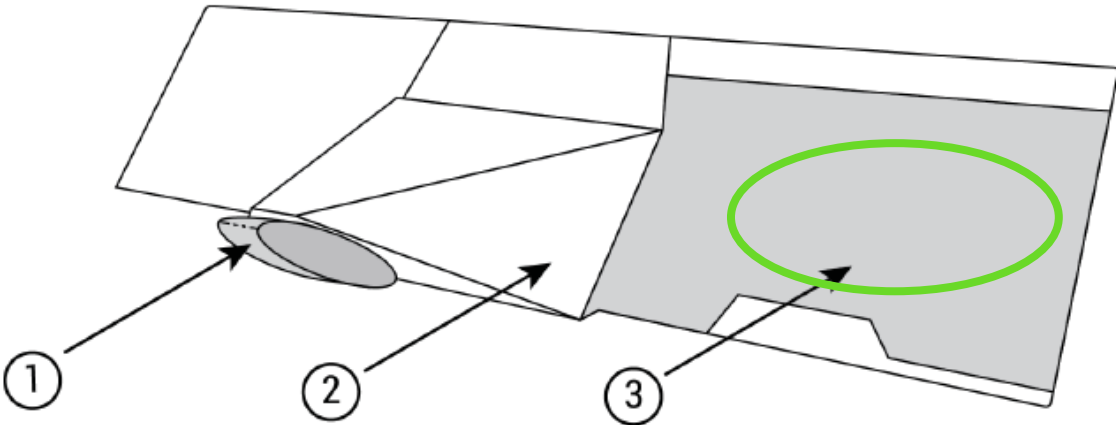
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")												
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U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")		
	<u>3.3.2. Conductive Pillow Specifications</u>		
	Parameters	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. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
wherein a first surface of the electric shield is disposed on the first portion and is electrically coupled to a second surface of the electric shield,	<i>The first surface of the electric shield of the Cardboard Viewers is disposed on the first portion and is electrically coupled to a second surface of the electric shield.</i> GCV2 Physical Unit. The first surface of the electric shield of the Cardboard Viewers is the "conductive strip" "metallized fabric" (polyester nickel/copper) disposed on the first portion (i.e. "input") described above (in green). See also annotated supplement.

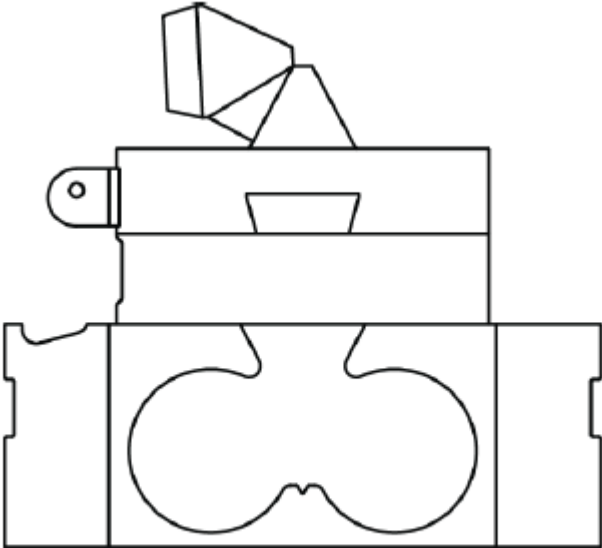
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
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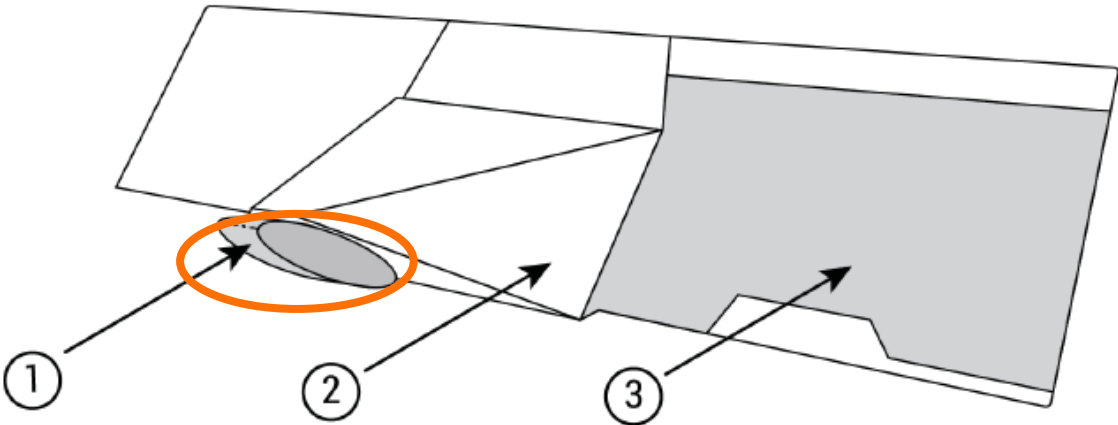
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
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U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")		
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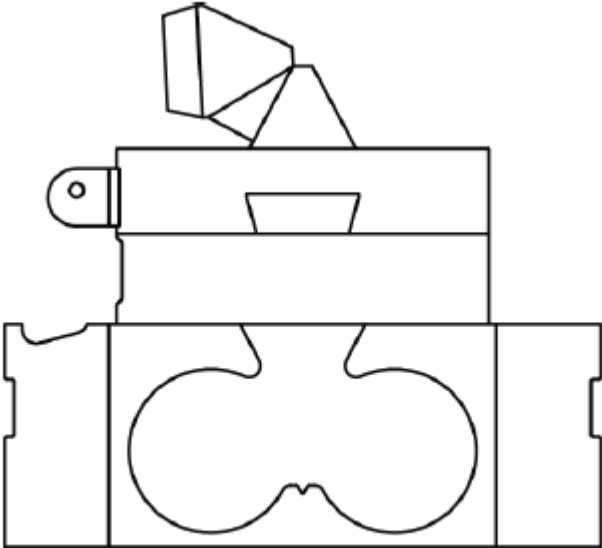
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
wherein the second surface is disposed on the second portion within the interior and is generally centered in the horizontal direction between the left and right regions, and wherein only the second surface of the electric shield is configured to contact a central portion of the touch-screen of the mobile electronic device and selectively transfer a capacitive touch input to the touch-screen in response to a user interaction with the first portion of the input mechanism.	<i>The second surface of the electric shield of the Cardboard Viewers is disposed on the second portion within the interior and is generally centered in the horizontal direction between the left and right regions.</i> GCV2 Physical Unit. The second surface of the electric shield of the Cardboard Viewers is the "pillow" "metallized fabric" (polyester nickel/copper) disposed on the second portion (i.e. "hammer") described above (in orange). 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.

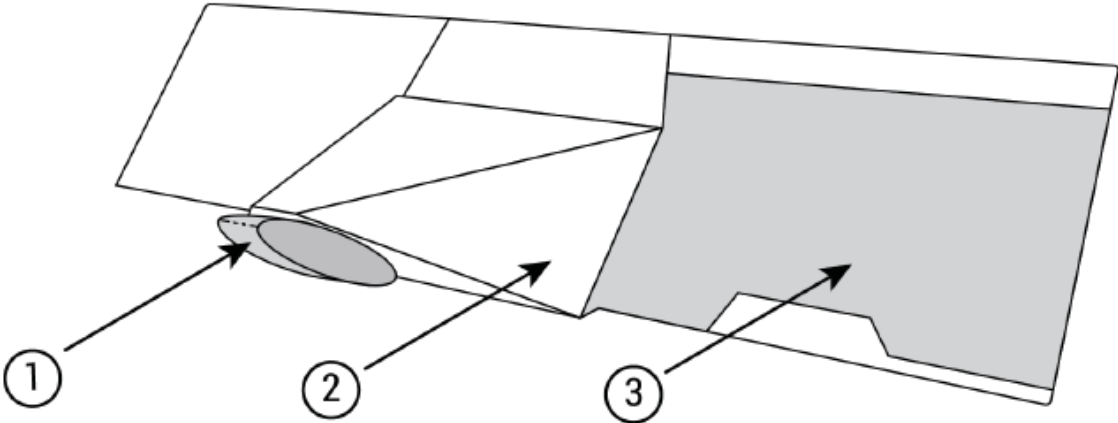
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U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")																		
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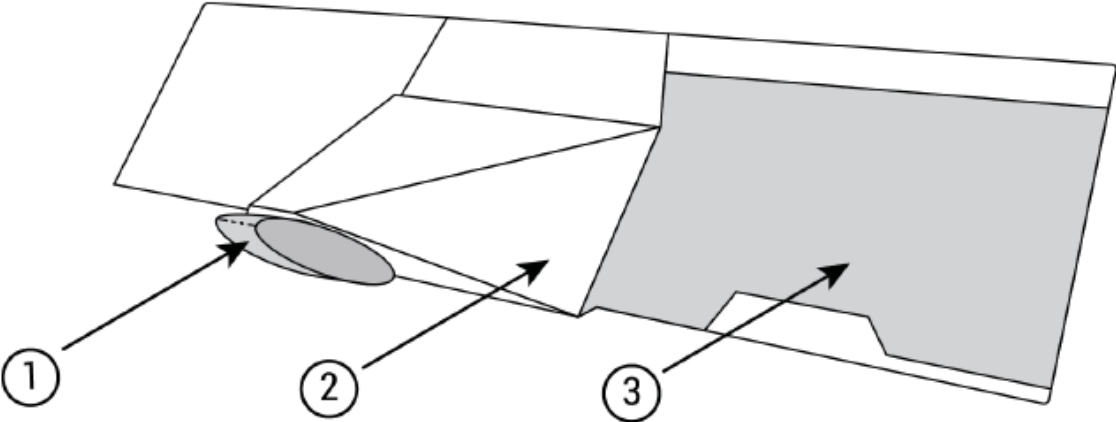
U.S. Patent No. 9,420,075 Claim 18	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	<i>Only the second surface of the electric shield of the Cardboard Viewers is configured to contact a central portion of the touch-screen of the mobile electronic device and selectively transfer a capacitive touch input to the touch-screen in response to a user interaction with the first portion of the input mechanism.</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.

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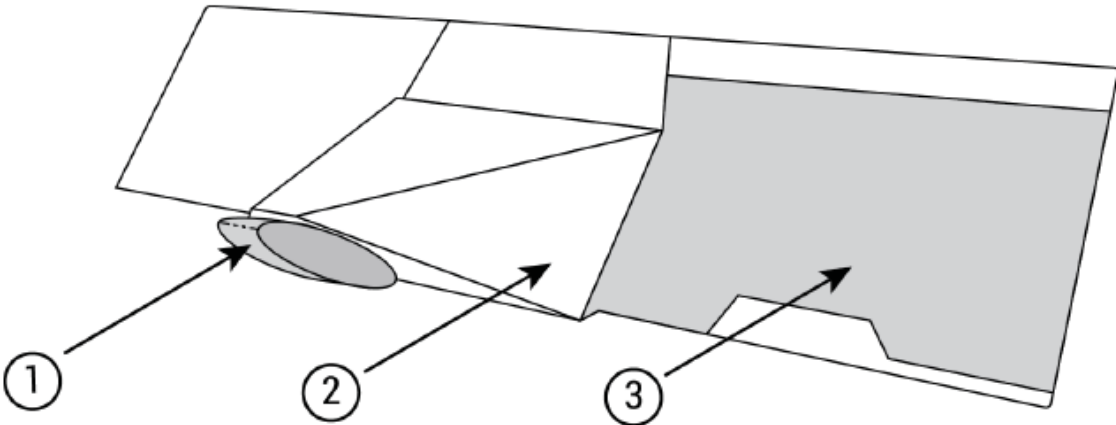
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U.S. Patent No. 9,420,075 Claim 19	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
The virtual reality viewer of claim 18, further comprising: a compressible pad disposed between the second portion and the second surface to provide an area of contact between the second surface and the touch-screen that is sufficient to transfer the capacitive touch input;	<i>The Cardboard Viewers are virtual reality viewers as claimed in independent claim 18.</i> <i>The Cardboard Viewers further comprise a compressible pad disposed between the second portion and the second surface to provide an area of contact between the second surface and the touch-screen that is sufficient to transfer the capacitive touch input.</i>  GCV2 Physical Unit. 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".

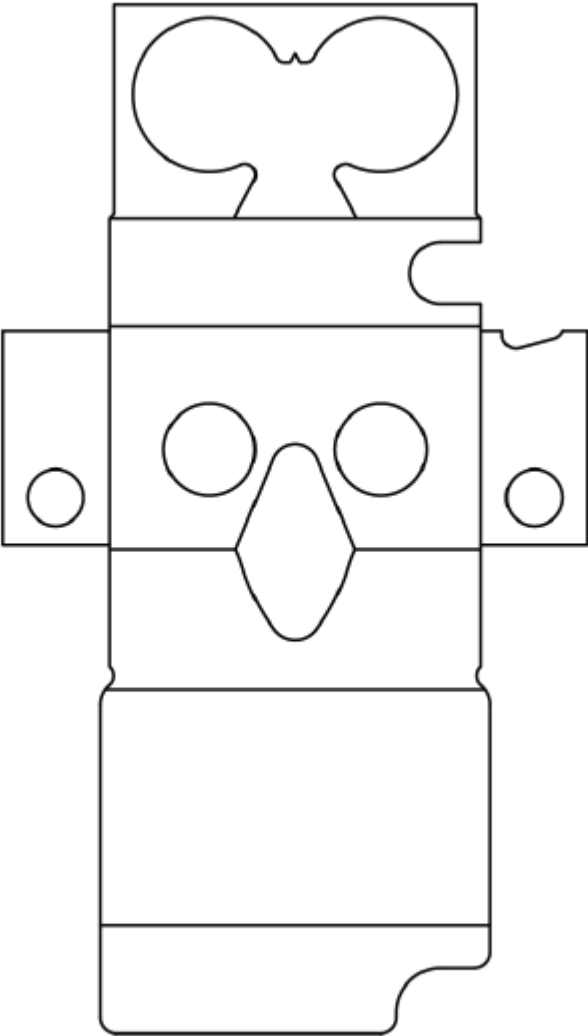
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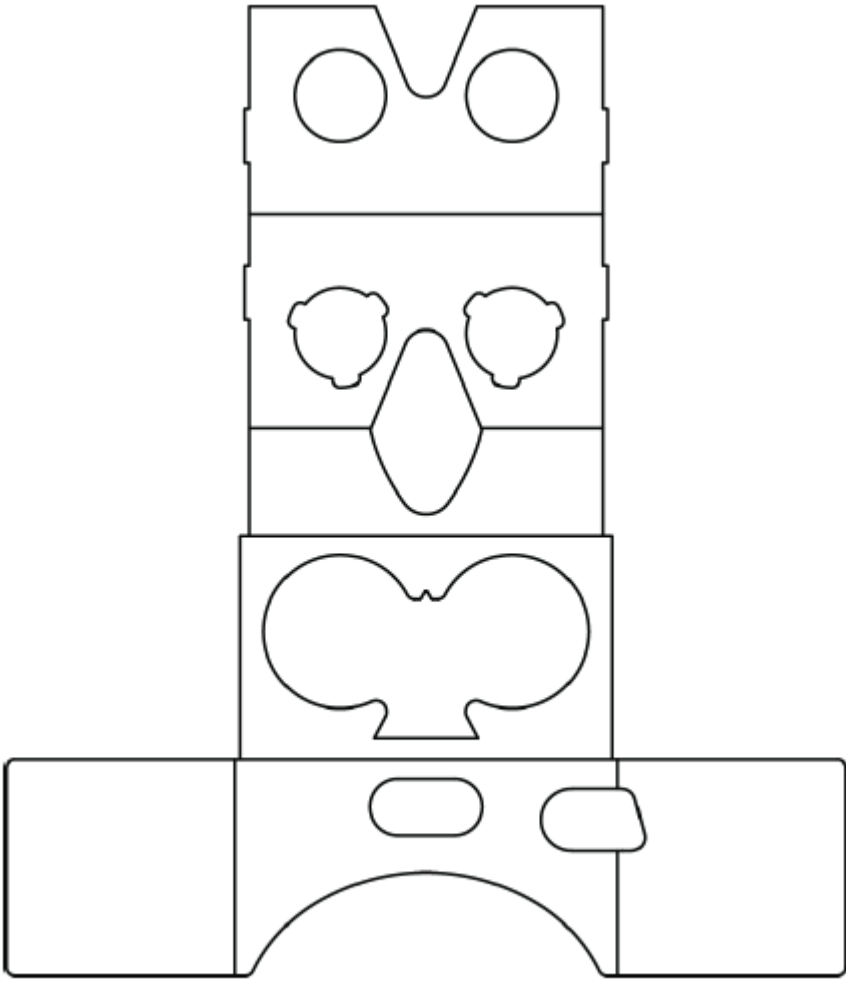
U.S. Patent No. 9,420,075 Claim 19	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
wherein at least the electric shield includes a conductive material configured to transfer electrical capacitance between the first surface and the touch-screen via the second surface in response to a user interaction with the first surface; and	<i>At least the electric shield of the Cardboard Viewers includes a conductive material configured to transfer electrical capacitance between the first surface and the touch-screen via the second surface in response to a user interaction with the first surface.</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).

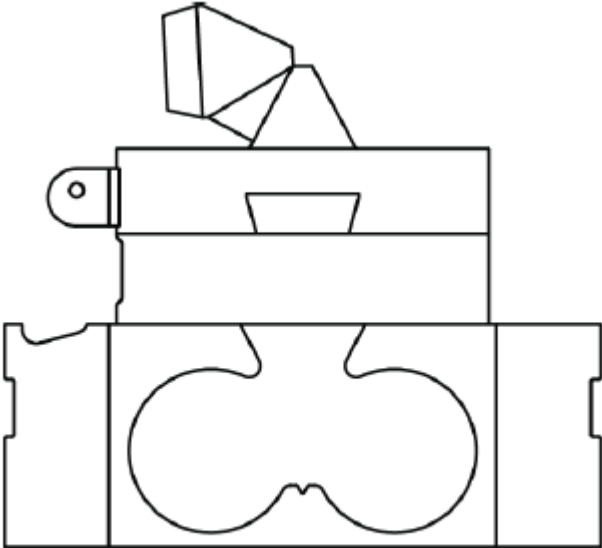
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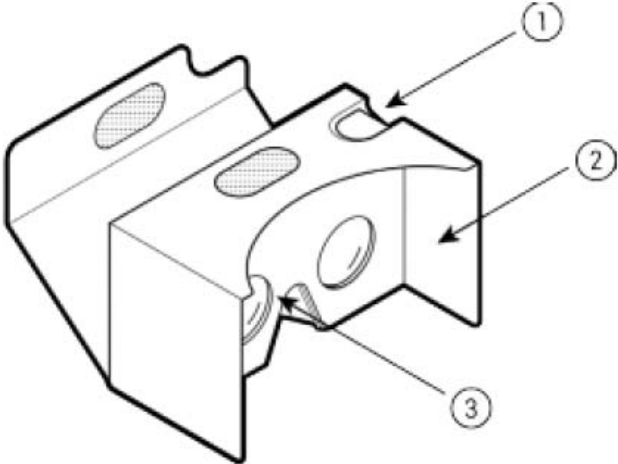
U.S. Patent No. 9,420,075 Claim 19	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
wherein the second portion of the input mechanism at least partially divides the left and right regions.	<i>The second portion of the input mechanism of the Cardboard Viewers at least partially divides the left and right regions.</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.

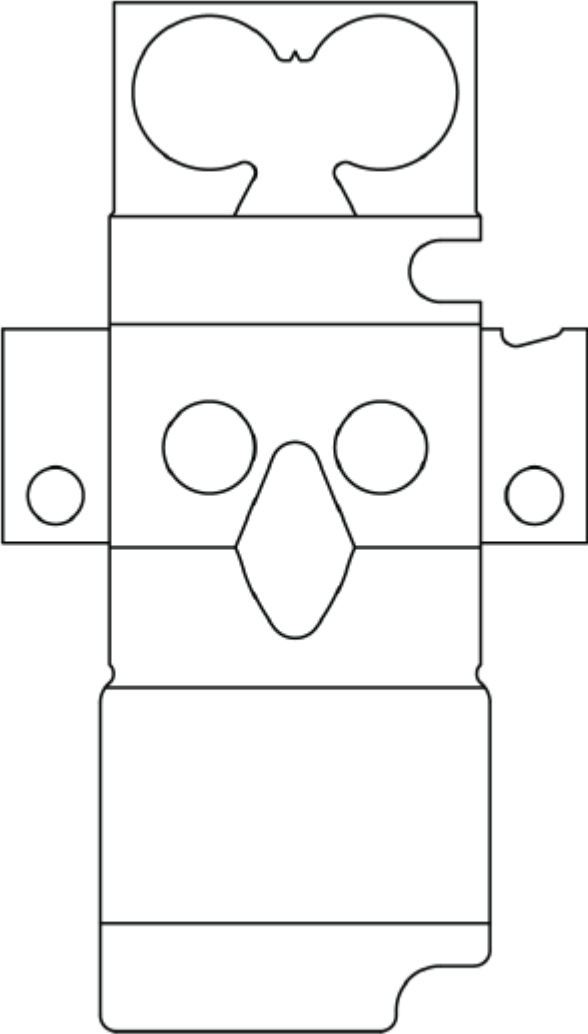
U.S. Patent No. 9,420,075 Claim 19	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

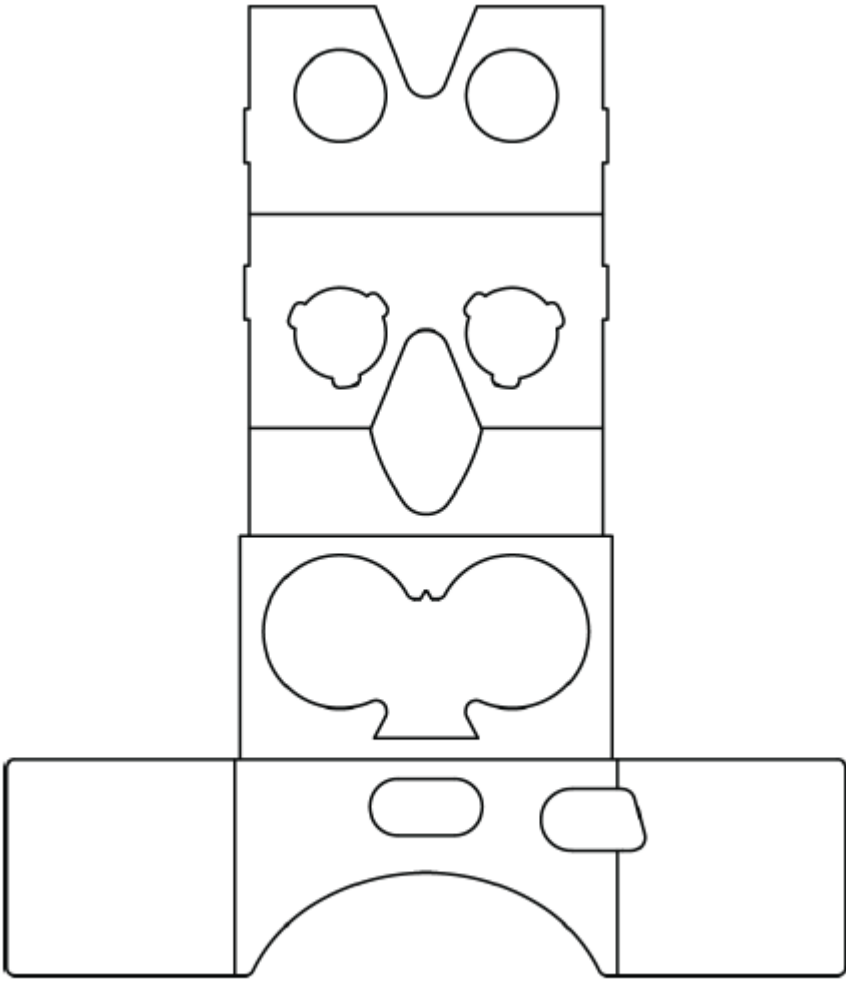
U.S. Patent No. 9,420,075 Claim 19	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i>

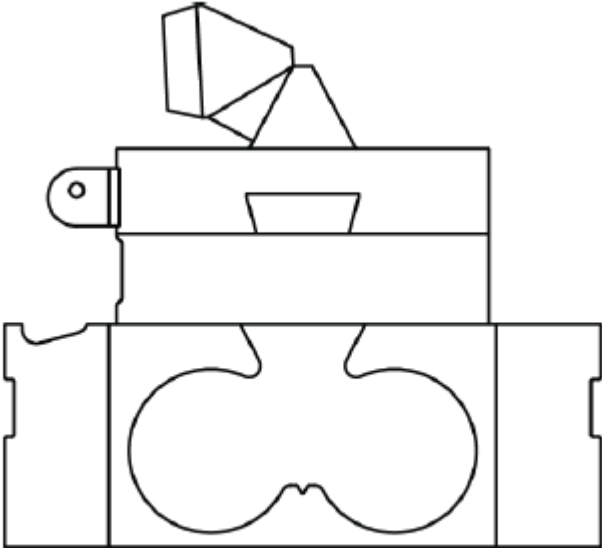
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	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

U.S. Patent No. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
A virtual reality viewer for use with a mobile electronic device having a touch-screen, the viewer comprising:	<i>The Cardboard Viewers are virtual reality viewers for use with a mobile electronic device having a touch-screen (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.

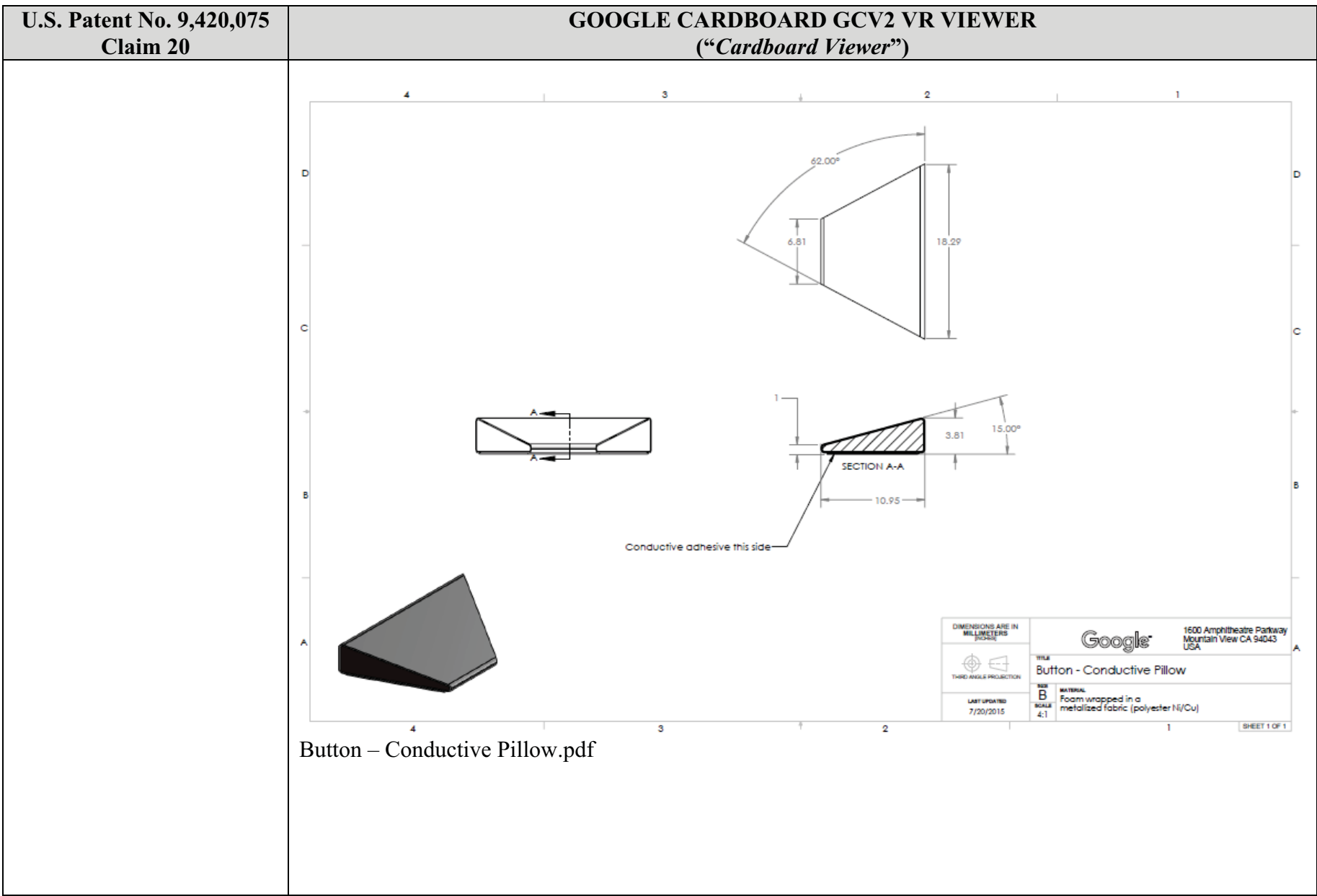
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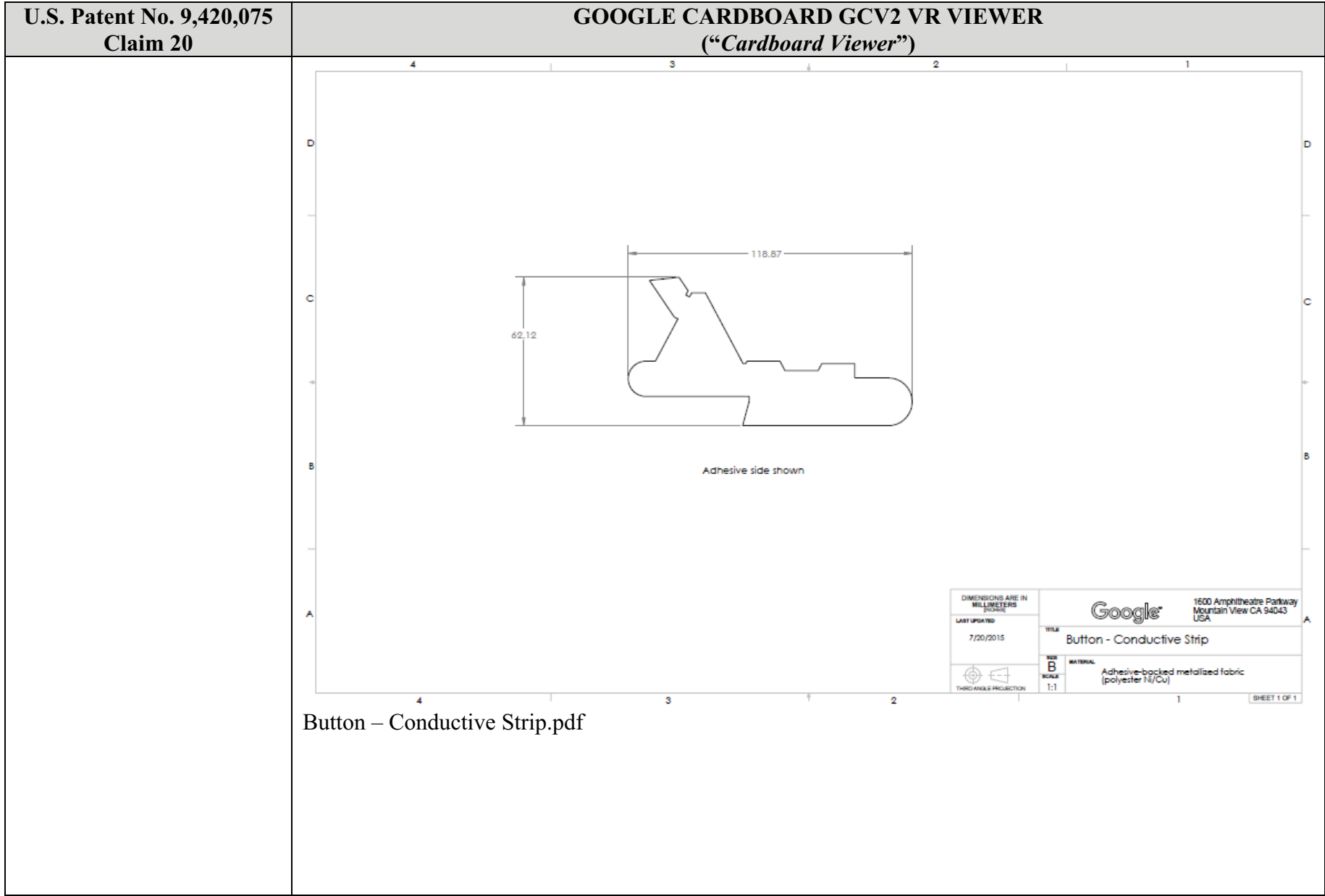
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	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i>

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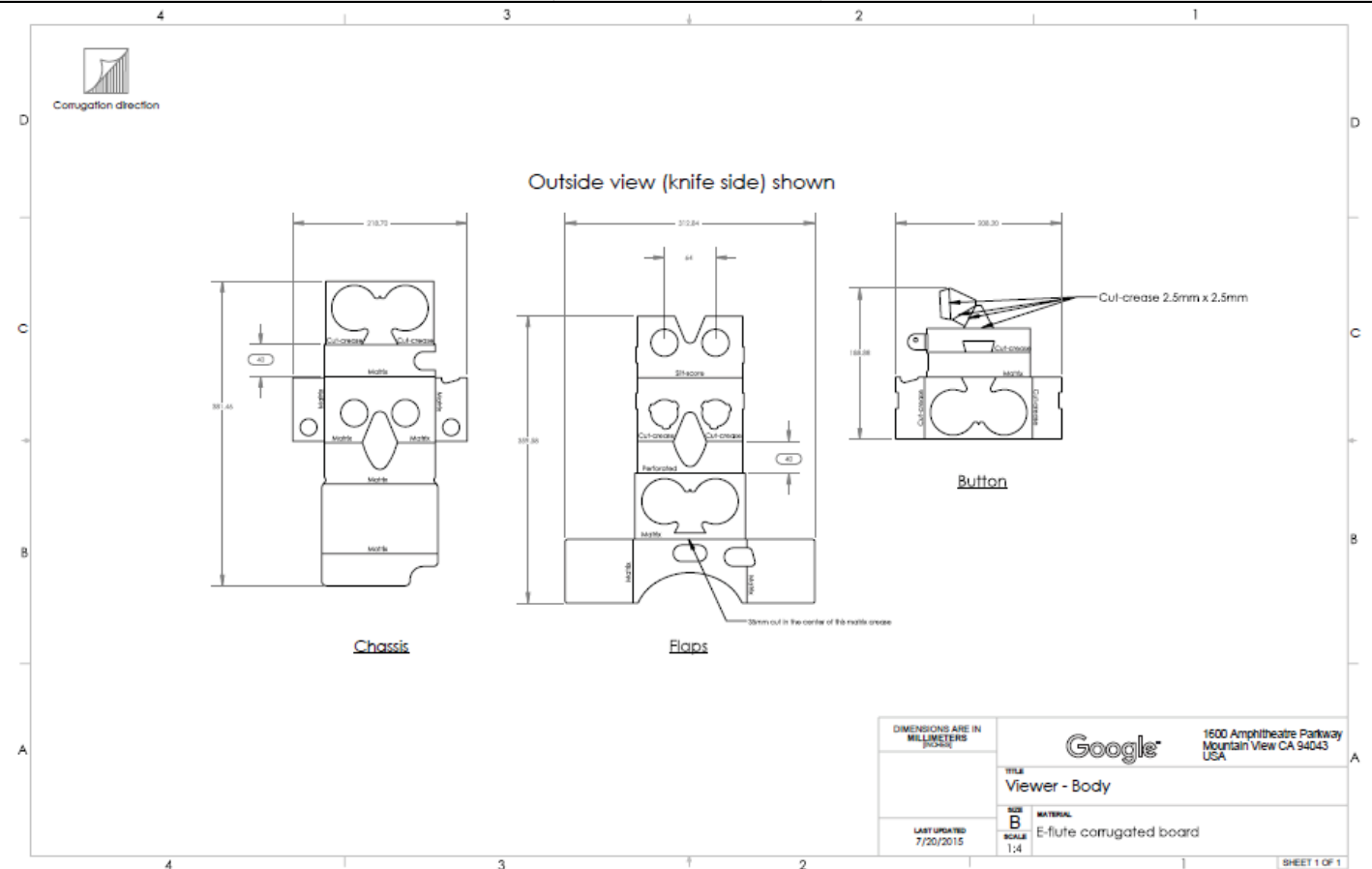
U.S. Patent No. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")																											
	4.1. Corrugate Tooling Verification The following critical dimensions should be verified for the corrugate tooling (e.g. die-cuts) before proceeding to production. For critical dimension 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> Table 13: Corrugate tooling verification specifications. 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	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	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
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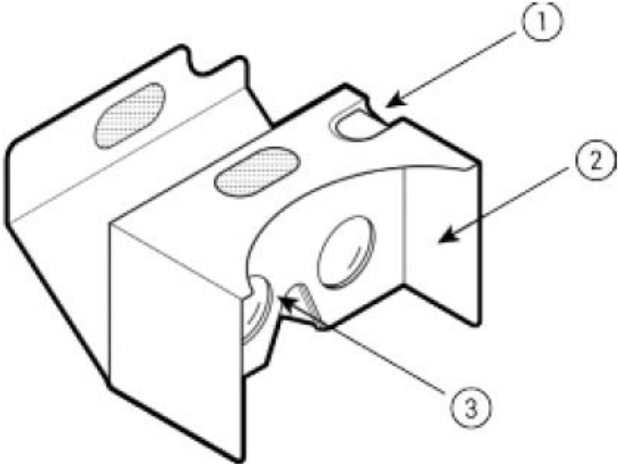
Button – Conductive Pillow.pdf

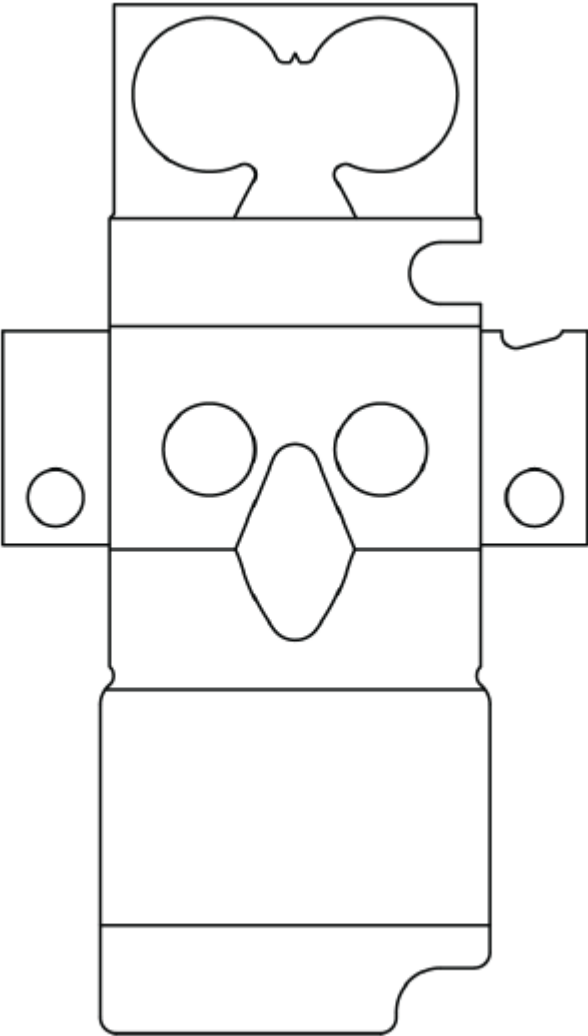


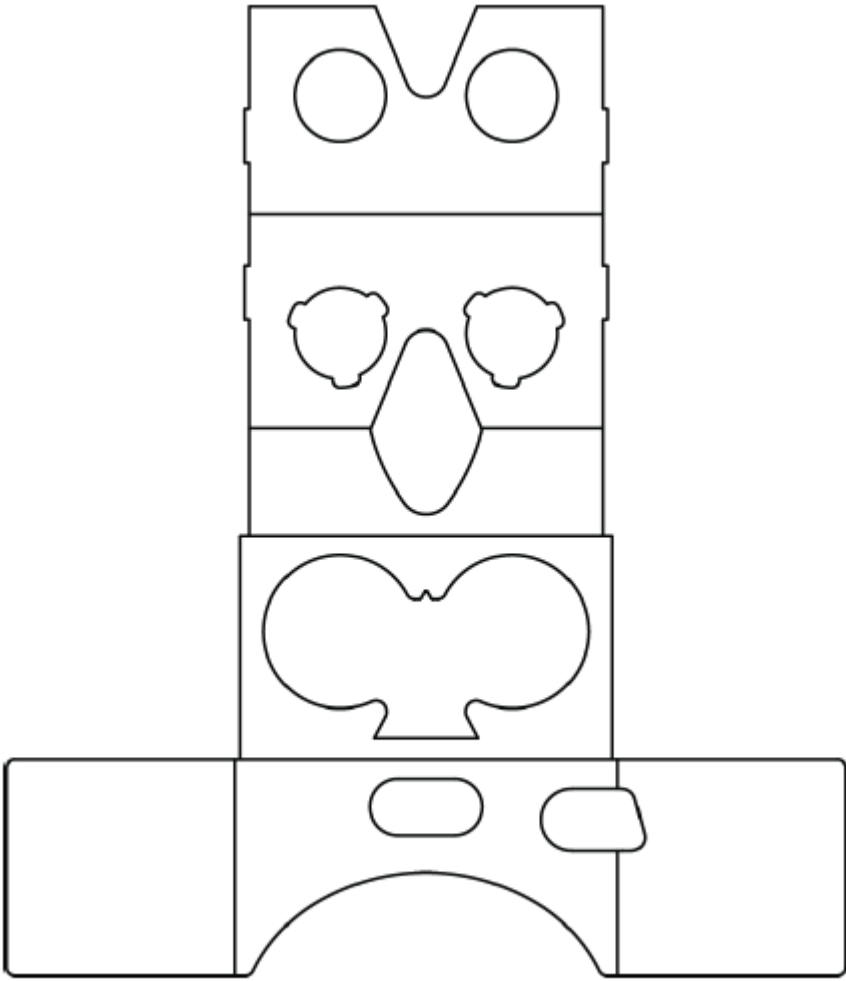
Button – Conductive Strip.pdf

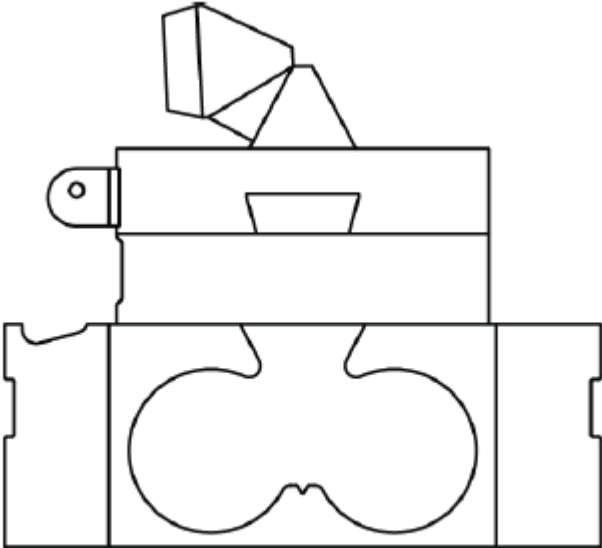


U.S. Patent No. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
a housing configured to receive a mobile electronic device within an interior of the housing, wherein the housing is formed to define a cut-out through an exterior side of the housing;	<i>The Cardboard Viewers comprise a housing configured to receive a mobile electronic device within an interior of the housing.</i> GCV2 Physical Unit. GCV2 Physical Unit.

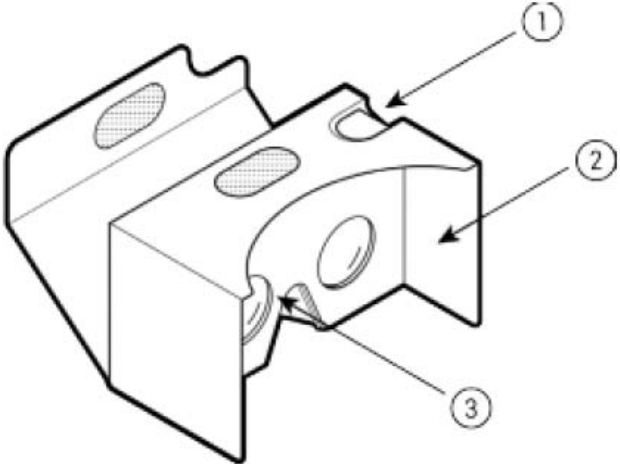
U.S. Patent No. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 Figure 1. Typical components of a Google Cardboard viewer: (1) - input, (2) - enclosure, (3) - lenses. Google Cardboard Best Practices – Version 3.0 (2020). 3.2. Cardboard Mechanical Design Specifications 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.

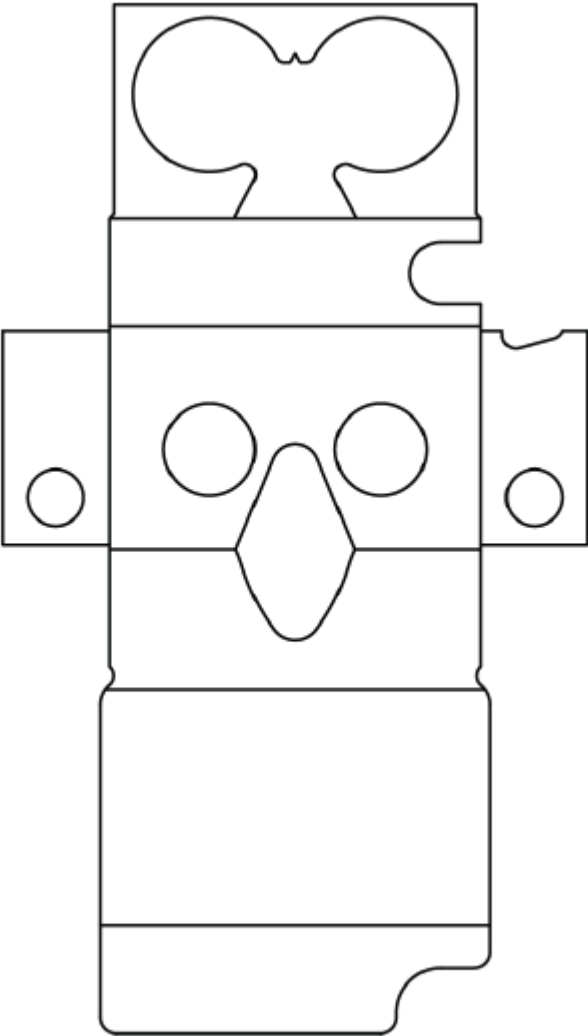
U.S. Patent No. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

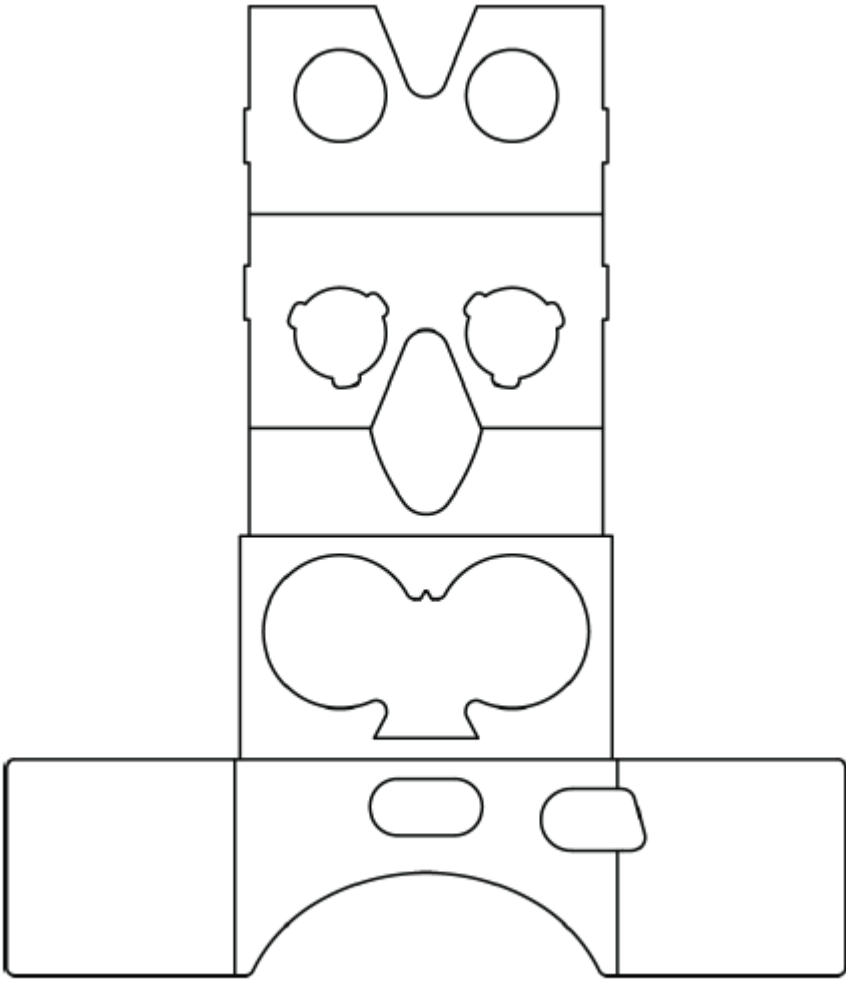
U.S. Patent No. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i>

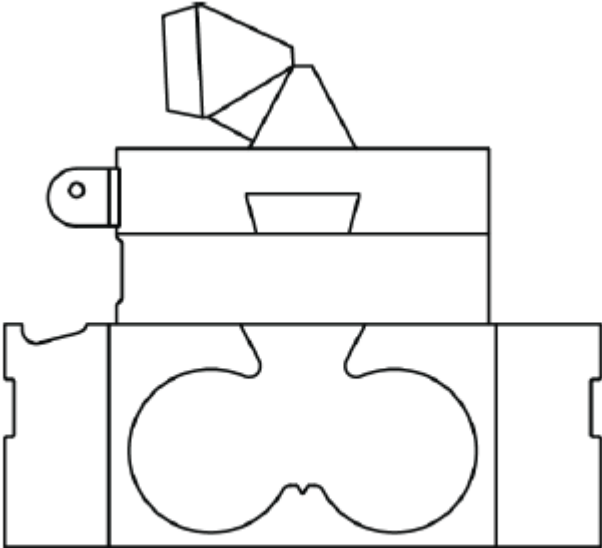
U.S. Patent No. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

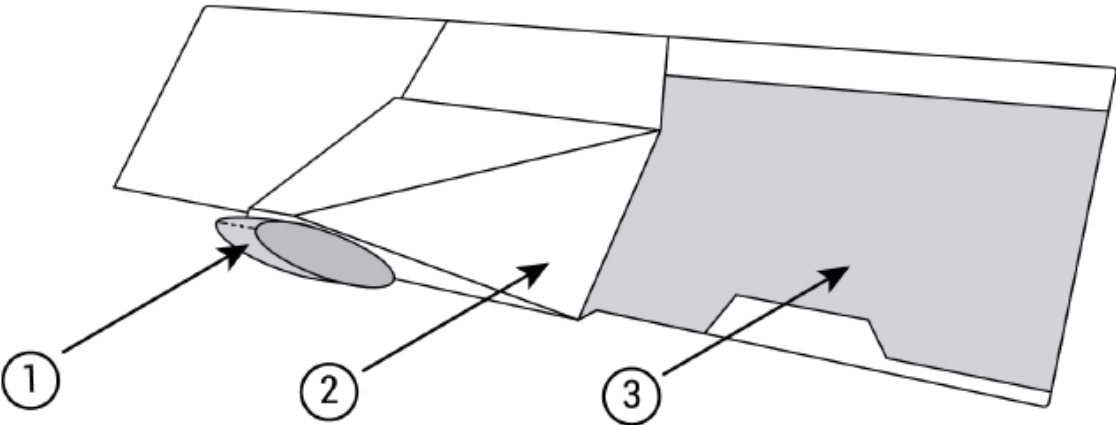
U.S. Patent No. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
an input mechanism that is accessible from an exterior of the housing and is moveable within the interior between at least a first position and an extended position, the input mechanism comprising:	<i>The Cardboard Viewers comprise an input mechanism that is accessible from an exterior of the housing.</i> GCV2 Physical Unit.

U.S. Patent No. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 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. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

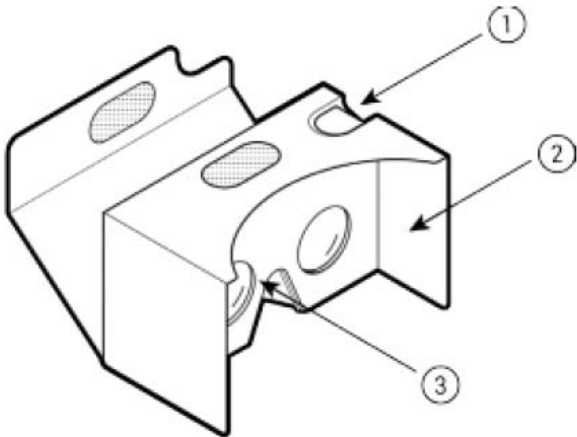
U.S. Patent No. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i>

U.S. Patent No. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <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".

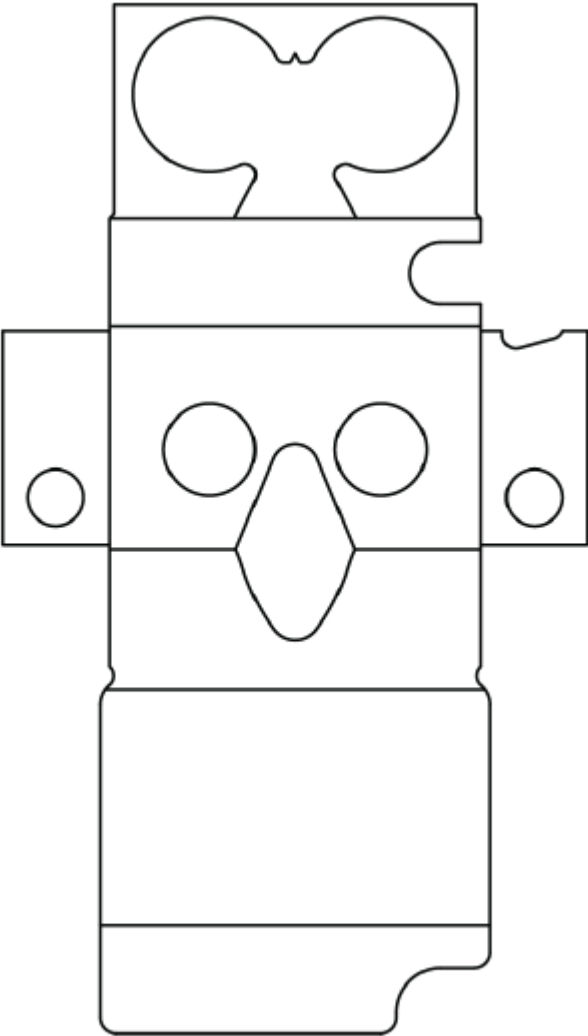
U.S. Patent No. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")												
	 Figure 7. Cardboard button parts: (1) - "pillow", (2) - "hammer", (3) - "conductive strip" 3.3.1. <u>Conductive Strip Specifications</u> <table><tr><th>Parameters</th><th>Value</th><th>Unit</th></tr><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
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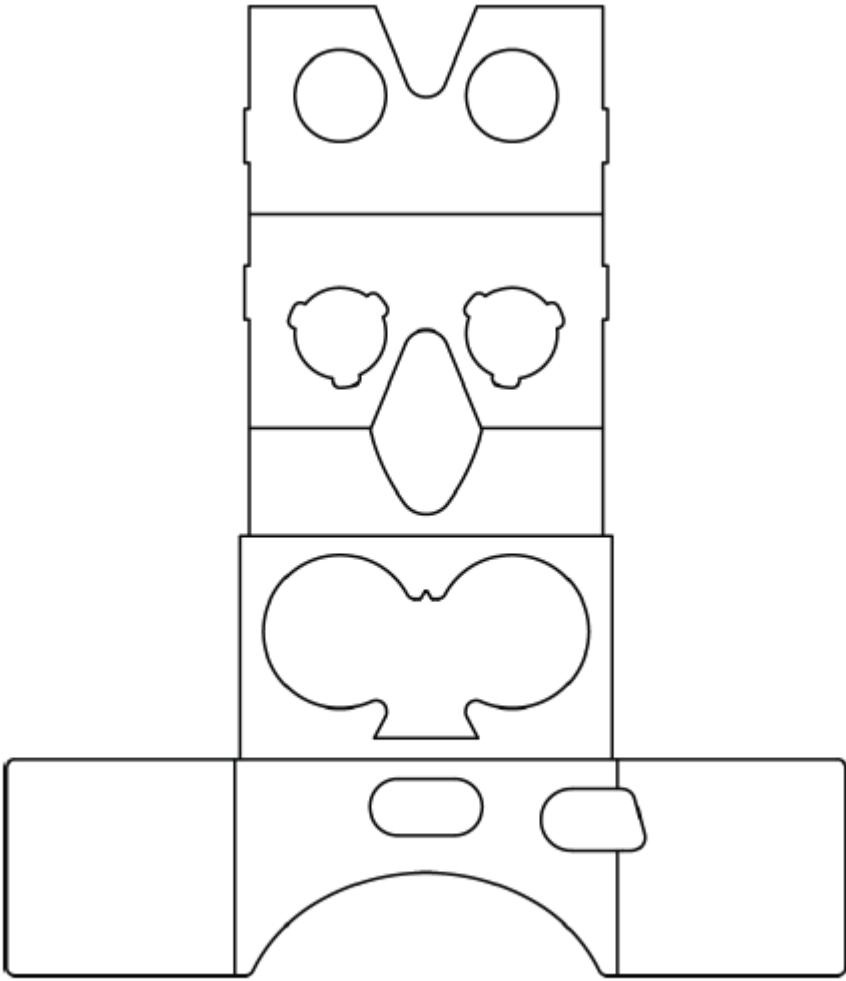
U.S. Patent No. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")		
	<u>3.3.2. Conductive Pillow Specifications</u>		
	Parameters	Value	Unit
	Surface material	Metallized fabric (polyester Ni/Cu)	
	Core material	Soft urethane foam	
	Core surface resistivity	< 0.07	Ω /sq.
	PSA type	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).		

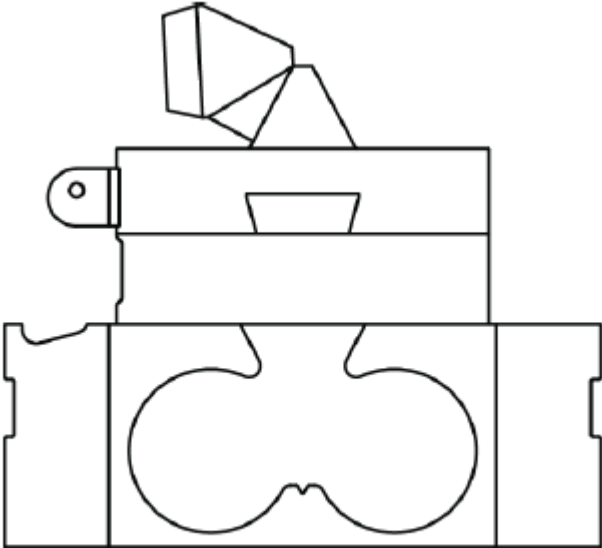
U.S. Patent No. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	<i>The input mechanism of the Cardboard Viewers is moveable within the interior between at least a first position and an extended position.</i> GCV2 Physical Unit.

U.S. Patent No. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
a lever that is accessible through the cut-out;	<i>The Cardboard Viewers include a lever that is accessible through the cut-out.</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).

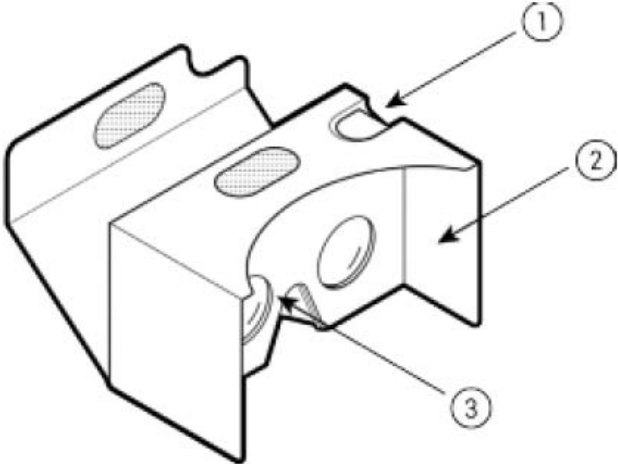
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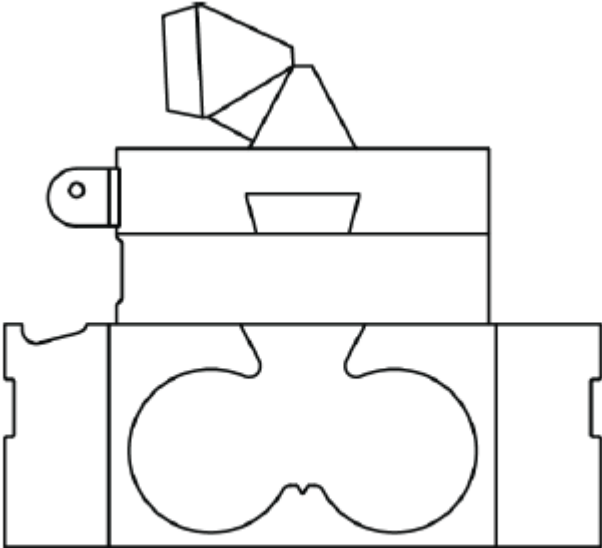
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	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

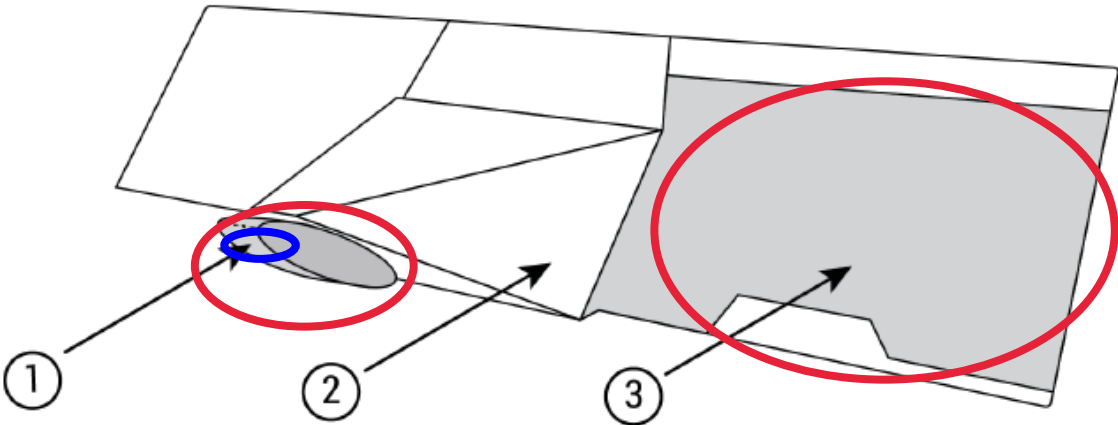
U.S. Patent No. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
	 <i>Figure 3. Cardboard mechanical body: "t-shirt" part.</i>

U.S. Patent No. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 4. Cardboard mechanical body: "button" part.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).

U.S. Patent No. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
an electrical shield, wherein only portion of a surface of the electrical shield is configured to contact the touch-screen of the mobile electronic device when in the extended position,	<i>The Cardboard Viewers include an electrical shield, wherein only a portion of a surface of the electrical shield is configured to contact the touch-screen of the mobile electronic device when in the extended position.</i> GCV2 Physical Unit. The electrical shield of the Cardboard Viewers is the portion of the Cardboard Viewers comprising the metalized fabric (polyester nickle/copper) that encases the "pillow" and the "conductive strip" (in red). See also annotated supplement. The portion of the surface of the electrical shield of the Cardboard Viewers is the surface of the "pillow" that makes contact with the touchscreen (in blue). See also annotated supplement.

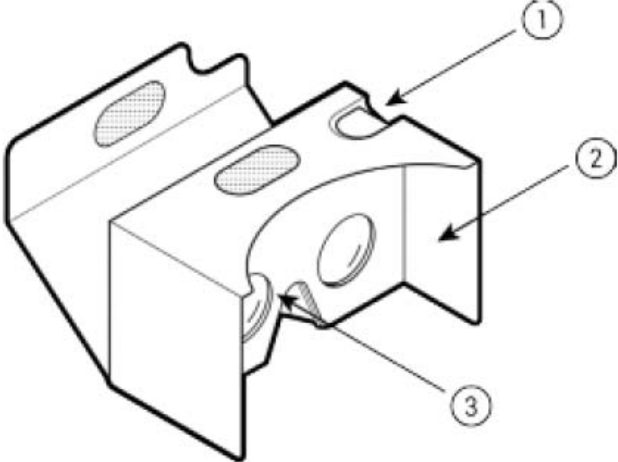
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	 Figure 1. Typical components of a Google Cardboard viewer: (1) - input, (2) - enclosure, (3) - lenses. Google Cardboard Best Practices – Version 3.0 (2020). 3.2. Cardboard Mechanical Design Specifications Google Cardboard (I/O 2015) mechanical body consists of three distinct parts: chassis, t-shirt and button. Each of these parts is made from the corrugated cardboard.

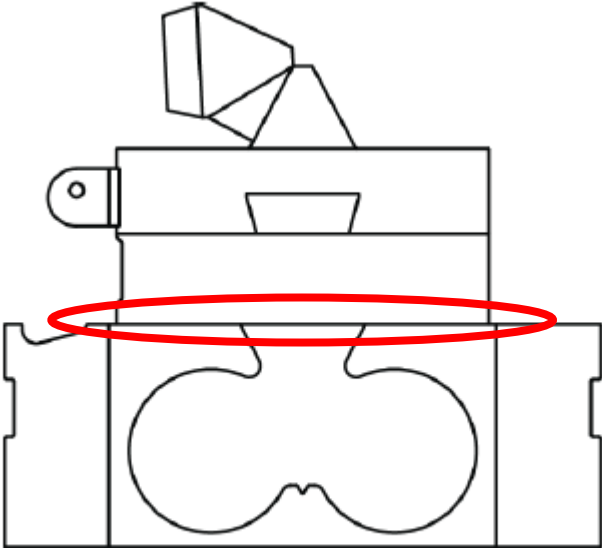
U.S. Patent No. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
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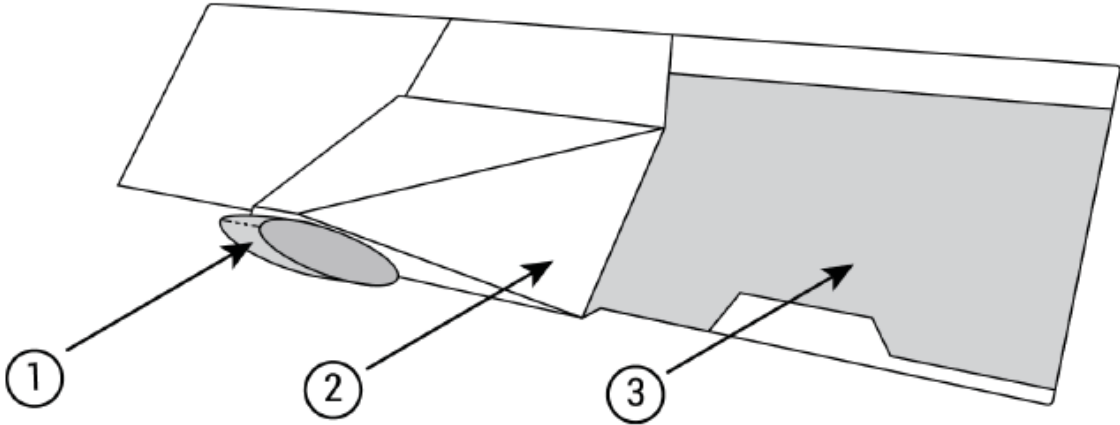
U.S. Patent No. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")												
	 Figure 7. Cardboard button parts: (1) - "pillow", (2) - "hammer", (3) - "conductive strip" 3.3.1. <u>Conductive Strip Specifications</u> <table><tr><th>Parameters</th><th>Value</th><th>Unit</th></tr><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
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U.S. Patent No. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")		
	<u>3.3.2. Conductive Pillow Specifications</u>		
	Parameters	Value	Unit
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	Core material	Soft urethane foam	
	Core surface resistivity	< 0.07	Ω/sq.
	PSA type	Conductive	
	PSA Z-axis resistance	< 0.05	Ω
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U.S. Patent No. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
a flexible linkage coupled to the lever and the housing,	<i>The Cardboard Viewers include a flexible linkage coupled to the lever and the housing.</i> The flexible linkage of the Cardboard Viewers is the cardboard portion of the input mechanism coupled to the housing and which deforms upon depression of the lever and returns to its original position upon cessation of depression. See also annotated supplement. GCV2 Physical Unit. GCV2 Physical Unit.

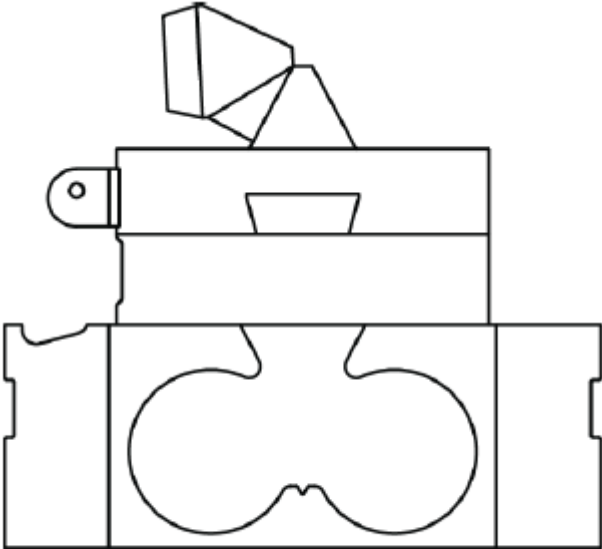
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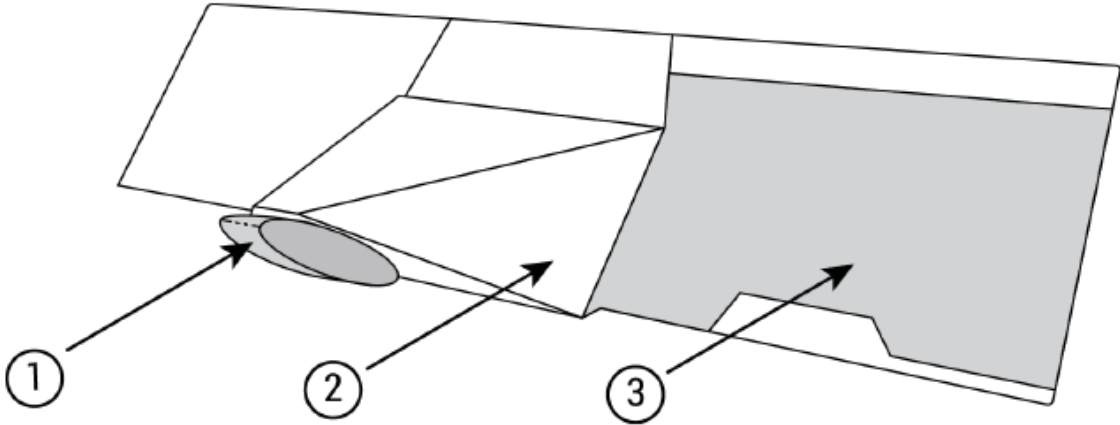
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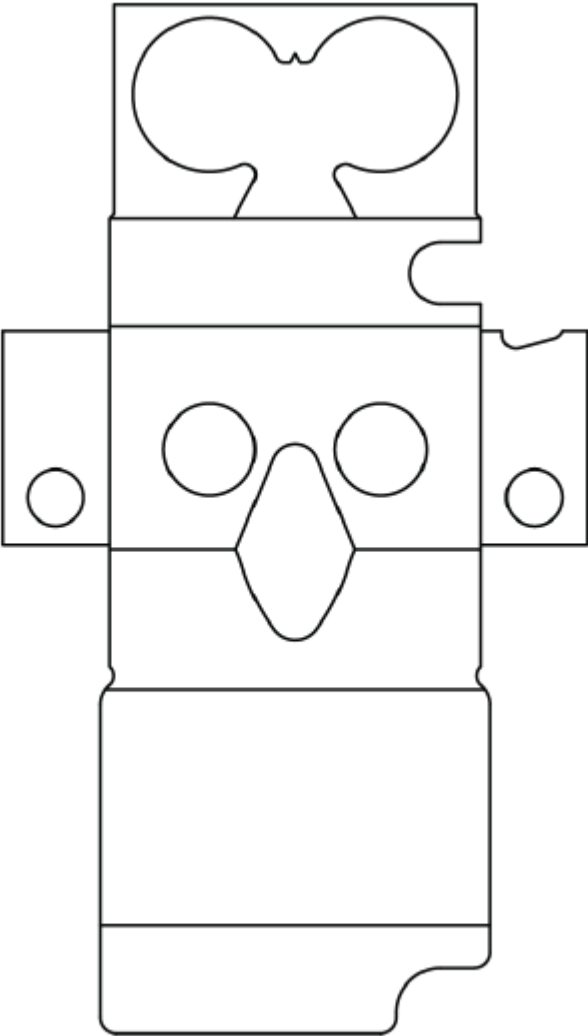
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	<i>Table 7. Conductive pillow specifications.</i> Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015). 2. The button should be easily pushable down. After releasing it should spring back. Google Cardboard (I/O 2015) Technical Specification – Version 2.0 (2015).		

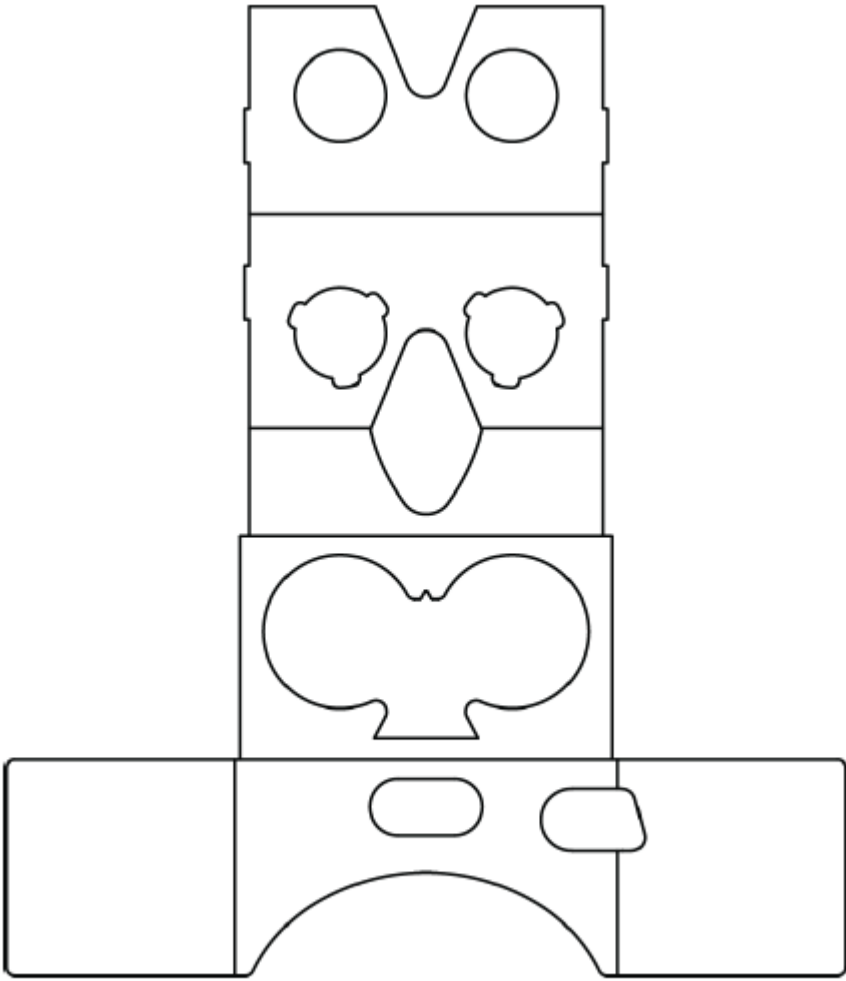
U.S. Patent No. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER (“Cardboard Viewer”)
wherein the linkage is configured to deform in response to actuation of the lever and thereby guide the portion of the surface between the first position and the extended position, and	<i>The linkage of the Cardboard Viewers is configured to deform in response to actuation of the lever and thereby guide the portion of the surface between the first position and the extended position.</i> GCV2 Physical Unit. GCV2 Physical Unit.

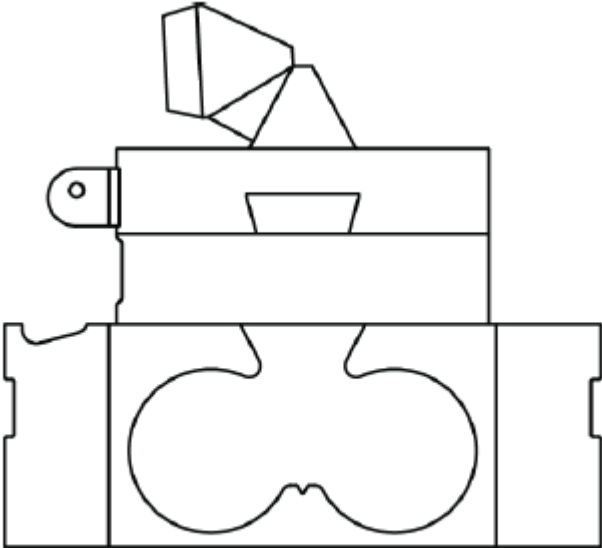
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U.S. Patent No. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
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U.S. Patent No. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
wherein at least a portion of the input mechanism defines at least a portion of a view divider within the interior of the housing.	<i>At least a portion of the input mechanism of the Cardboard Viewers defines at least a portion of a view divider within the interior of the housing.</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. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER (<i>"Cardboard Viewer"</i>)
	 <i>Figure 2. Cardboard mechanical body: "chassis" part.</i>

U.S. Patent No. 9,420,075 Claim 20	GOOGLE CARDBOARD GCV2 VR VIEWER ("Cardboard Viewer")
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