

EXHIBIT 28

ACCUSED PRODUCTS¹	
<p>Claim 1</p> <p>1.1 An electronic package comprising:</p>	<p>The Accused Products include an electronic package.</p> <p>For example:</p> <p>The Accused Products include an electronic package (e.g., electronic component(s) covered with an electronic shield). As an example, a teardown of Samsung Ativ S Neo smartphone reveals at least four electronic components covered with an EMI shield. For example only, two of these components are microphones located at the bottom and the top of the phone respectively. The disassembly of Samsung Ativ S Neo reveals two MEMS microphone packages: Mic-1 "S1110 8095" (at the bottom of the device) on a daughter board and Mic-2 "S1111 4918" (near the top of the device) on the main board.</p>

¹ The Accused Products include all of the devices listed in the Accused Products Spreadsheet attached to the '551 patent infringement contentions and any other product uncovered during discovery that includes an electronic component surrounded by an EMI shield/Faraday cage.

Claim 1

ACCUSED PRODUCTS¹



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² All photographs herein are for the exemplary purpose of showing infringement by the Accused Products.

Claim 1

ACCUSED PRODUCTS¹

Optical image of the four electronic components covered with an EMI shield



Claim 1

ACCUSED PRODUCTS¹

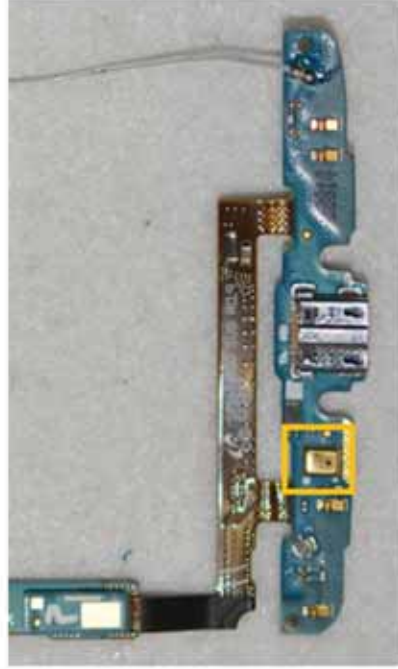
Front view of device disassembly



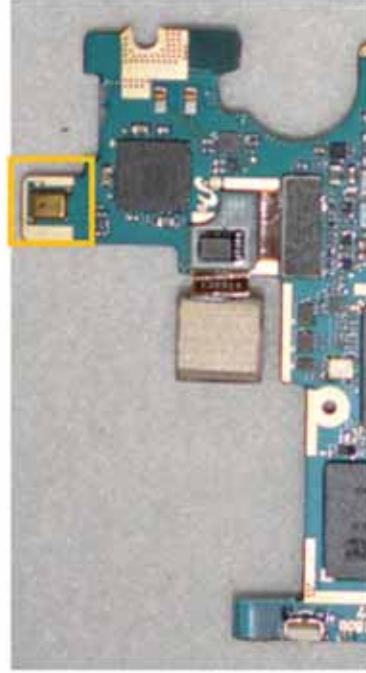
Claim 1

ACCUSED PRODUCTS¹

Mic-1 MEMS microphone board placement

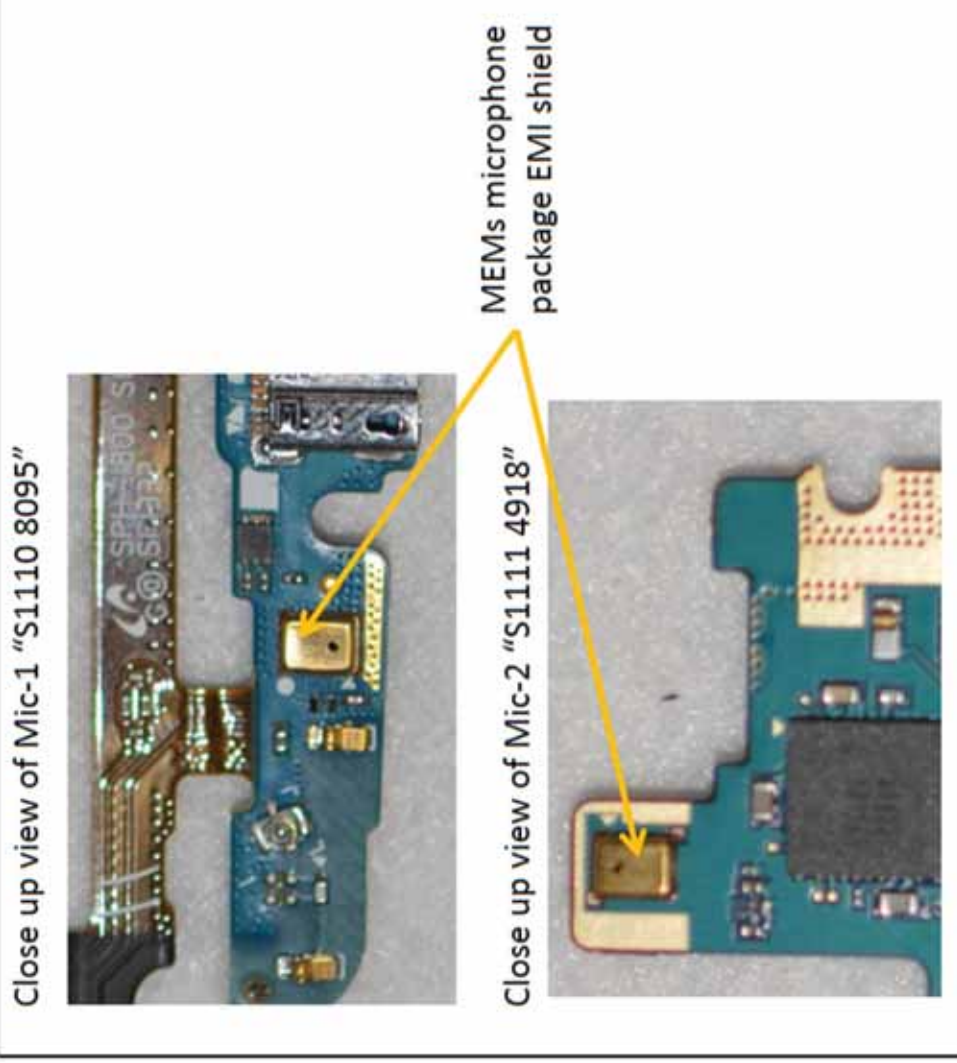


Mic-2 MEMS microphone board placement




Claim 1

ACCUSED PRODUCTS¹



Rockstar reserves the right to add additional information and infringement theories once discovery begins in this case.

Claim 1	ACCUSED PRODUCTS¹
1.2 a rigid planar dielectric substrate carrying a ground member extending across substantially the whole area within the confines of the edges of the substrate;	<p>particularly once the defendant produces its technical documents and circuit schematics.</p> <p>The Accused Products contain a rigid planar dielectric substrate carrying a ground member extending across substantially the whole area within the confines of the edges of the substrate.</p> <p>For example, each of the four electronic components in Samsung Ativ S Neo comprises a rigid planar dielectric substrate carrying a ground member extending across substantially the whole area of the substrate. The perspective image of the electronic package, for example, show the rigid planar dielectric substrate and the ground member extending across the area of the substrate.</p>

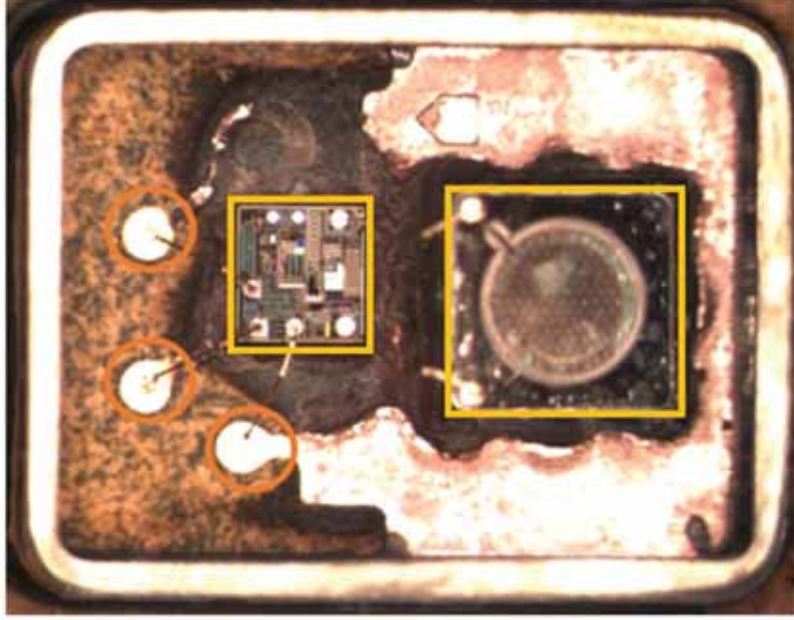
Claim 1	ACCUSED PRODUCTS¹
	<div data-bbox="284 777 1063 1675"><p>Rigid planar dielectric substrate</p><p>Ground member extending across substantially the whole area within the confines of the substrate</p></div> <p>Rockstar reserves the right to add additional information and infringement theories once discovery begins in this case, particularly once the defendant produces its technical documents and circuit schematics.</p>
1.3 an electronic component mounted upon	The Accused Products contain an electronic component mounted upon a first side of the substrate and having terminals connected to a plurality of first level terminal interconnects provided upon the first side of the board. For example, each of the four electronic components in Samsung Ativ S Neo identified is an electronic component mounted

<p>Claim 1 a first side of the substrate and having terminals connected to a plurality of first level terminal interconnects provided upon the first side of the board;</p>	<p>ACCUSED PRODUCTS¹ upon the top side of the substrate. The external X-ray images for Mic-1, for example, show the ASIC and the MEMS die of Mic-1.</p> <div data-bbox="389 247 1179 1667"><p>The figure consists of two X-ray images of a MEMS package. The top image is labeled 'Package Top View' and shows a square package with a central circular feature. A red arrow points to a 'Ground Bond Wire' on the left. A yellow dashed box highlights the 'ASIC Die' in the center. A blue dashed box highlights the 'MEMS Die' on the right. Orange circles and arrows labeled 'First Level Interconnects' point to several points on the left side of the package. The bottom image is labeled 'Package Side View' and shows the package from a side perspective. A yellow dashed box highlights the 'ASIC Die' and a blue dashed box highlights the 'MEMS Die'.</p></div> <p>High resolution images of the decapsulated package also show terminals of Mic-1 that connect to first level interconnects provided on the substrate. Further delayering of the package reveals the first level interconnects on the top layer that are in turn also connected to circuit paths in the substrate.</p>
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Claim 1

ACCUSED PRODUCTS¹

Terminals of Mic-1 are electrically connected to First Level Interconnects

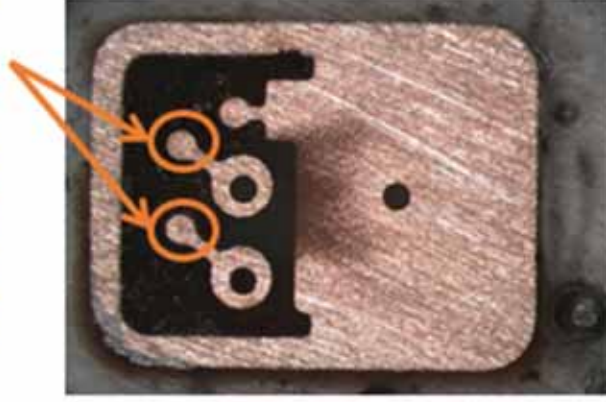


Claim 1

ACCUSED PRODUCTS¹

Delayered image of Mic-1 package

First Level Interconnects



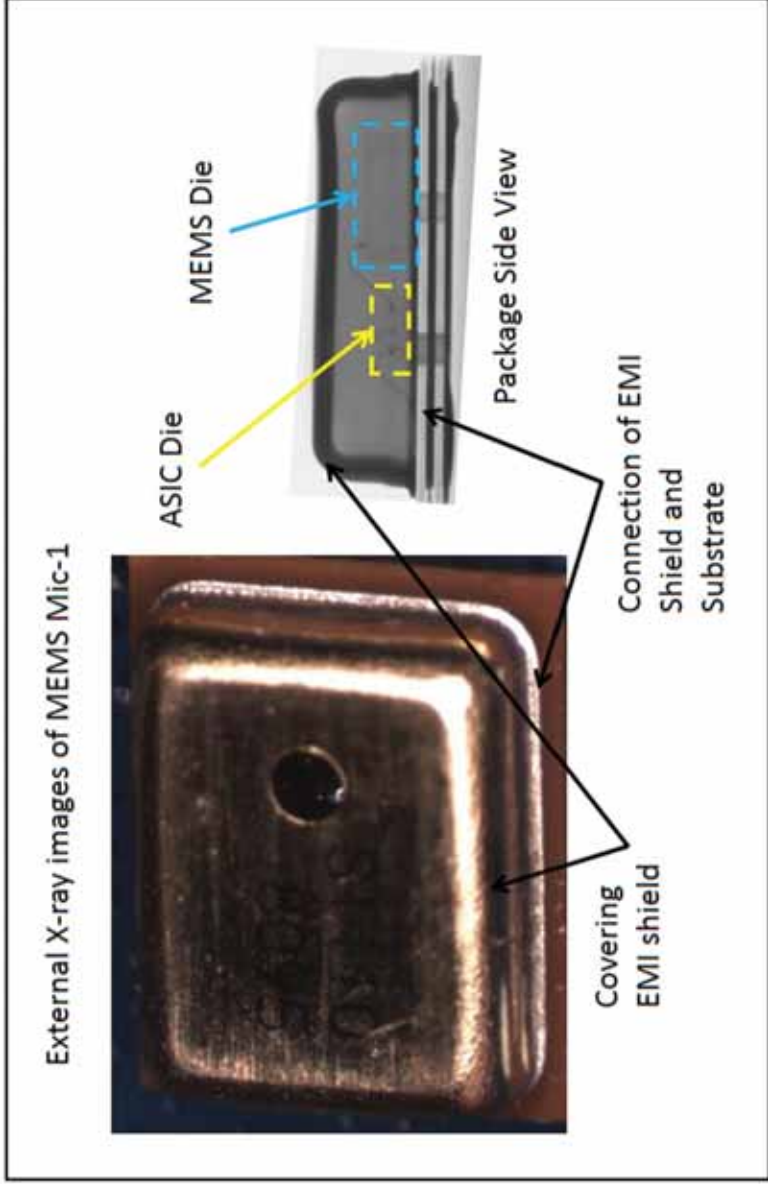
Layer 1

Rockstar reserves the right to add additional information and infringement theories once discovery begins in this case.

Claim 1	ACCUSED PRODUCTS¹
<p>1.4 a covering EMI shield extending over the electronic component to locate the electronic component between the EMI shield and the ground member of the substrate, the EMI shield being electrically interconnected to the ground member of the substrate to form with the ground member, a Faraday cage around the electronic component;</p>	<p>particularly once the defendant produces its technical documents and circuit schematics.</p> <p>The Accused Products contain a covering EMI shield extending over the electronic component to locate the electronic component between the EMI shield and the ground member of the substrate, the EMI shield being electrically interconnected to the ground member of the substrate to form with the ground member, a Faraday cage around the electronic component.</p> <p>For example, each of the four electronic components in Samsung Ativ S Neo identified above is covered by an EMI shield that locates the electronic component between the EMI shield and the ground member of the substrate. The external X-ray images for Mic-1, for example, shows that the EMI shield extends over the electronic components, the ASIC and the MEMS die of Mic-1.</p>

Claim 1

ACCUSED PRODUCTS¹



Claim 1

ACCUSED PRODUCTS¹



**Rigid planar
dielectric substrate**

Ground member extending across
substantially the whole area within
the confines of the substrate

Claim 1

ACCUSED PRODUCTS¹

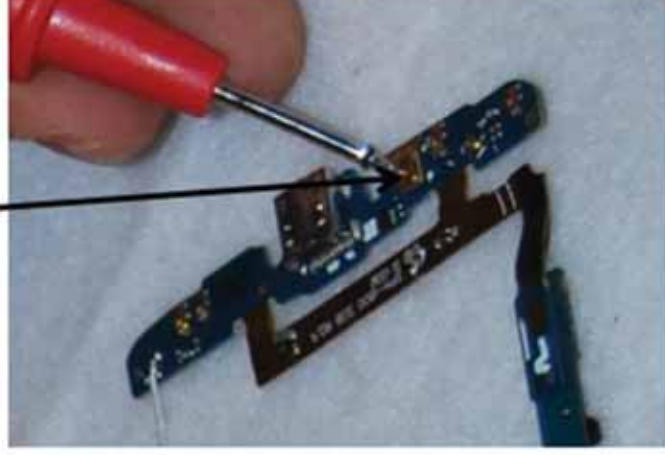
A resistance of 0.1 ohms measured between the top of the EMI shield and the bottom side of the substrate indicates that the EMI shield is electrically connected to the ground member.

0.1 Ω resistance measured between the EMI shield top surface and chassis ground



0.1 Ω resistance measured between the EMI shield top

Package EMI shield top

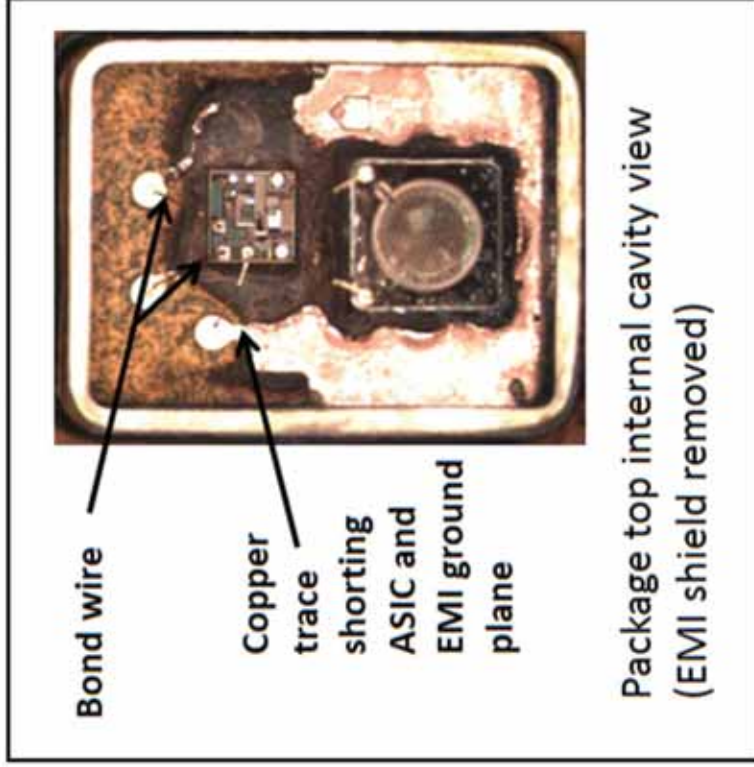


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Claim 1	ACCUSED PRODUCTS¹
<p>1.5 and a plurality of second level interconnects mounted upon a second side of the substrate and electrically interconnected through circuit paths in the substrate to the first level interconnects.</p>	<p>particularly once the defendant produces its technical documents and circuit schematics.</p> <p>The Accused Products contain a plurality of second level interconnects mounted upon a second side of the substrate and electrically interconnected through circuit paths in the substrate to the first level interconnects. For example, for Mic-1, the bond wires connect to the first level interconnects which in turn are connected to second level interconnect on layer 4 of the package on the second side of the substrate through circuit paths.</p>

Claim 1

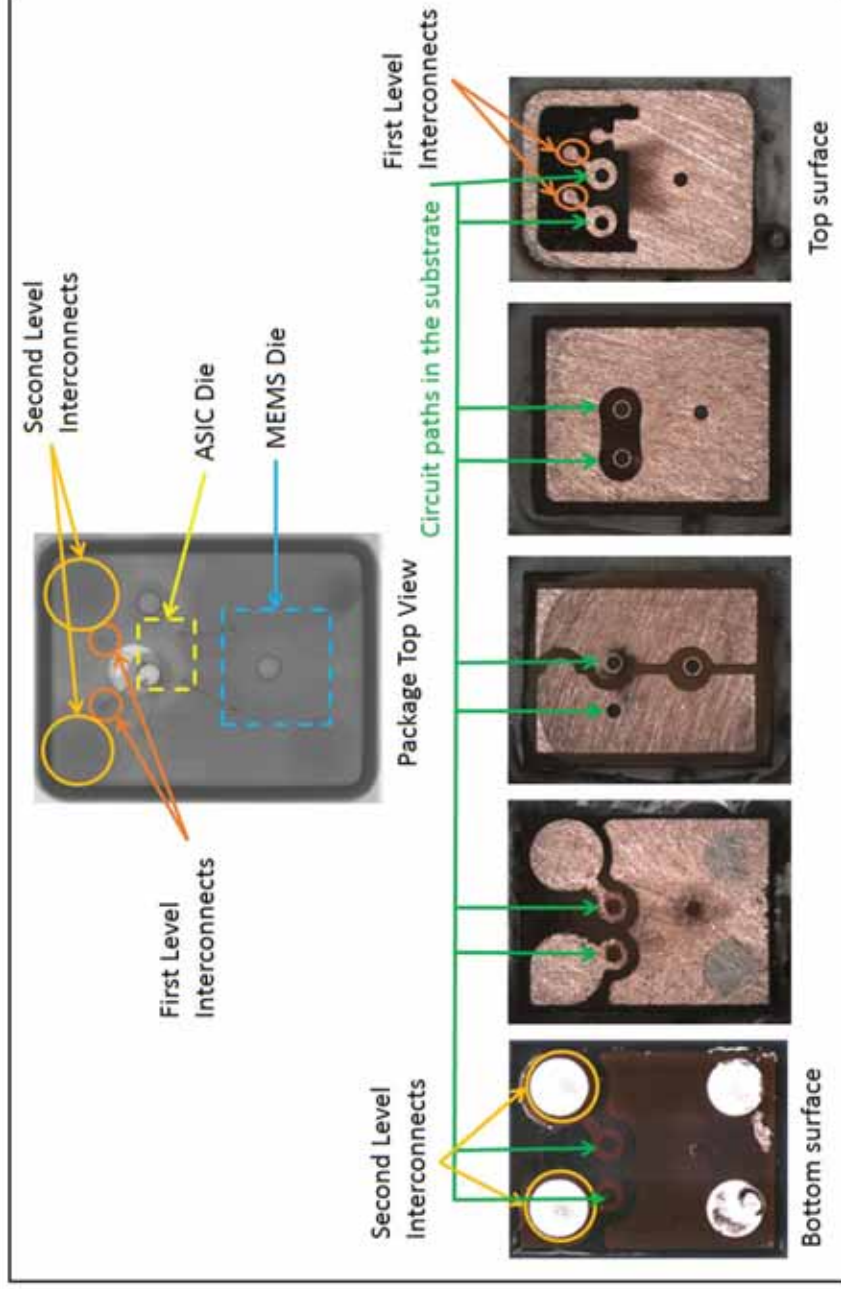
ACCUSED PRODUCTS¹



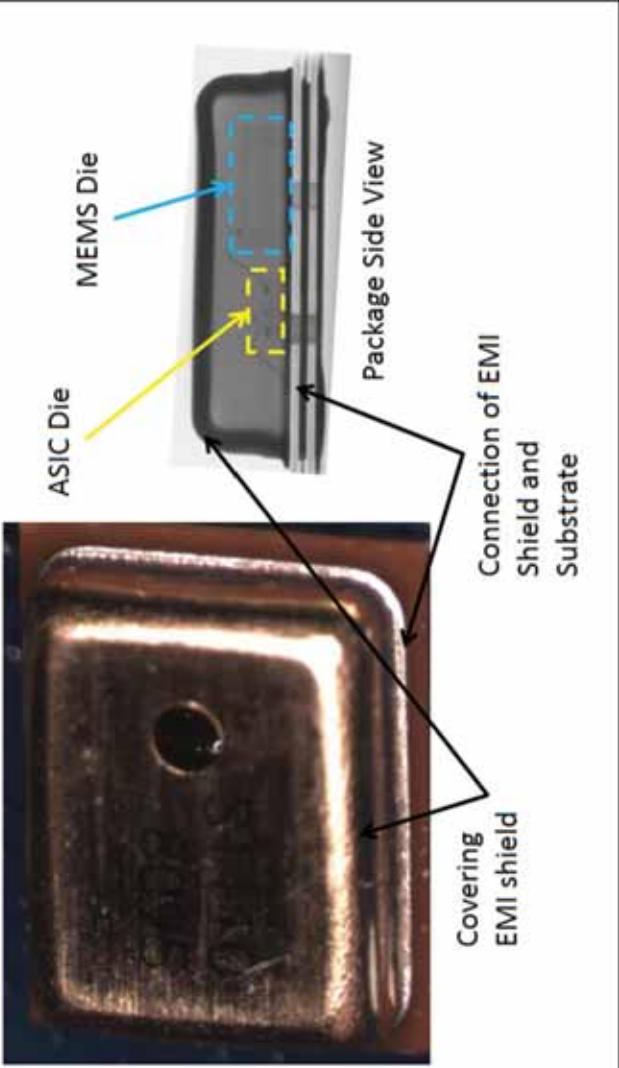
Delayering of Mic-1 package, as an example, shows a plurality of second level interconnects mounted upon the second side of the substrate (Layer 4) and electrically interconnected through circuit paths in the substrate to the first level interconnects. The two layers between Layer 1 on the top side of the substrate and Layer 4 on the bottom side both contain at least two interconnects at the identical locations as Layer 1 and Layer 4 to enable the circuit paths.

Claim 1

ACCUSED PRODUCTS¹



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<p>Claim 2 A package according to claim 1 wherein the electronic component comprises an integrated circuit component.</p>	<p>ACCUSED PRODUCTS</p> <p>The Accused Products comprise a package according to claim 1 wherein the electronic component comprises an integrated circuit component.</p> <p>For example, the Accused Products, including Samsung Ativ S Neo identified above, contain one or more microphones that comprise an ASIC Die and a MEMS Die covered by an EMI shield. The ASIC Die is an integrated circuit component manufactured specifically for use in the microphone.</p> <div data-bbox="505 571 1219 1675"><p>External X-ray images of MEMS Mic-1</p><p>The image shows two X-ray views of a microphone component. On the left is a top-down view of a square component with a central circular hole, labeled 'Covering EMI shield'. On the right is a side view of the component, labeled 'Package Side View'. A yellow arrow points to a rectangular area on the side view labeled 'ASIC Die'. A blue arrow points to a smaller rectangular area on the side view labeled 'MEMS Die'. A bracket on the right side of the side view is labeled 'Connection of EMI Shield and Substrate'.</p></div> <p>Rockstar reserves the right to add additional information and infringement theories once discovery begins in this case, particularly once the defendant produces its technical documents and circuit schematics.</p>
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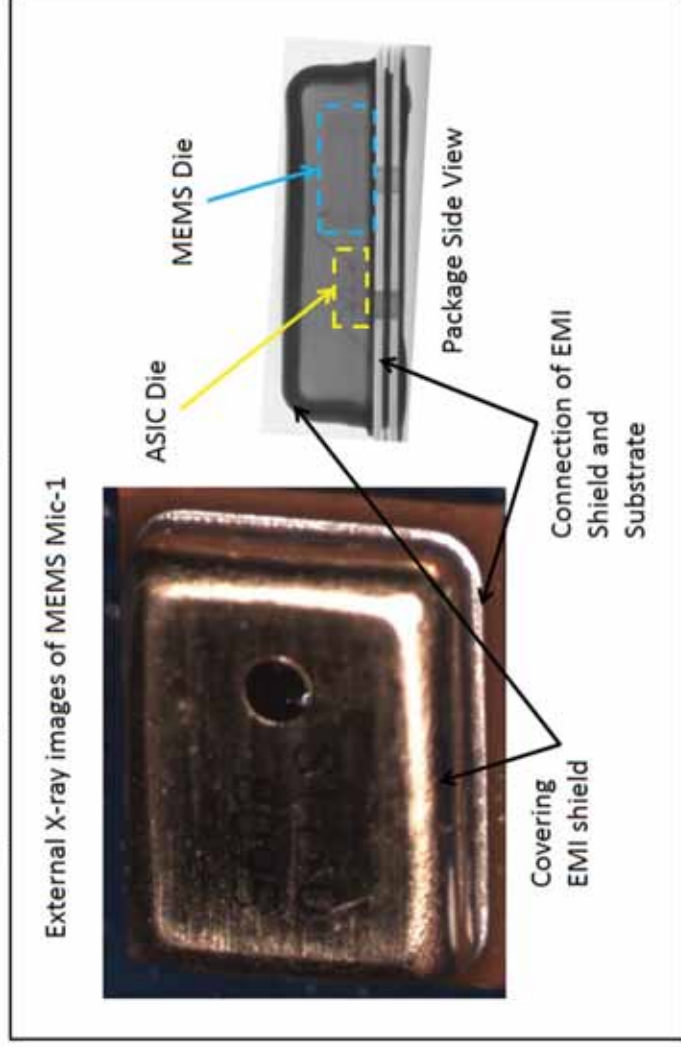
Claim 3

3. A package according to claim 1 comprising two or more electronic components mounted upon the first side of the substrate and at least one of which is an integrated circuit component and all of the components are commonly shielded by the EMI shield.

ACCUSED PRODUCTS

The Accused Products include a package according to claim 1 comprising two or more electronic components mounted upon the first side of the substrate and at least one of which is an integrated circuit component and all of the components are commonly shielded by the EMI shield.

For example, the Accused Products, including Samsung Ativ S Neo identified above, contain one or more microphones that comprise an ASIC Die and a MEMS Die covered by an EMI shield. The ASIC Die is an integrated circuit component manufactured specifically for use in the microphone.



Rockstar reserves the right to add additional information and infringement theories once discovery begins in this case, particularly once the defendant produces its technical documents and circuit schematics.