

Sony Exhibit 1027
Sony v. VisionX

I. INFRINGED CLAIMS – P.R. 3-1(a)

Subject to ongoing discovery and investigation, Plaintiff asserts that Sony infringes directly pursuant to 35 U.S.C. § 271(a), and/or by inducement pursuant to 35 U.S.C. § 271(b) one or more of the following claims (collectively, “Asserted Claims”):

- Claims 1, 2 and 4–9 of United States Patent No. 7,867,808 (“**the ’808 Patent**”).
- Claims 1, 2 and 4–8 of United States Patent No. 7,868,366 (“**the ’366 Patent**”).
- Claims 1–4 of United States Patent No. 8,035,143 (“**the ’143 Patent**”).

Plaintiff reserves the right to supplement its position as to infringement following further discovery and/or claim construction.

II. IDENTIFICATION OF ACCUSED INSTRUMENTALITIES AND CLAIM CHARTS – P.R 3-1(b)–(c)

Subject to ongoing discovery and investigation, and based on present information and belief, Plaintiff contends that the Asserted Claims of the ’808 Patent are infringed by Defendants’ “Exmor RS” back-illuminated and stacked image sensor products (“’808 Patent Accused Instrumentalities”) and methods for manufacturing the Accused Instrumentalities, including but not limited to any back-illuminated and stacked CMOS image sensors referred to by Sony as “Exmor RS” sensors, including but not limited to the IMX134, IMX135, IMX145, IMX145, IMX204, IMX214, IMX220, IMX230, IMX234, IMX240, IMX258, IMX260, IMX268, IMX278, IMX286, IMX298, IMX300, IMX310, IMX311, IMX313, IMX315, IMX318, IMX319, IMX320, IMX324, IMX333, IMX338, IMX345, IMX350, IMX351, IMX356, IMX362, IMX363, IMX371, IMX372, IMX374, IMX376, IMX378, IMX379, IMX380, IMX382, IMX383, IMX386, IMX390, IMX398, IMX400, IMX408, IMX409, IMX412, IMX415, IMX424, IMX435, IMX445, IMX451, IMX458, IMX464, IMX471, IMX476, IMX477, IMX481, IMX482, IMX486, IMX490, IMX498, IMX499, IMX502, IMX503, IMX503, IMX504, IMX506, IMX511, IMX514, IMX519, IMX520, IMX521CQR, IMX530, IMX531, IMX532, IMX535, IMX536, IMX537, IMX540, IMX541,

IMX542, IMX550, IMX554DQC, IMX555, IMX555CQR, IMX557, IMX563, IMX571, IMX576, IMX577, IMX582, IMX586, IMX598, IMX600, IMX600, IMX603, IMX608, IMX609, IMX610, IMX613, IMX615, IMX616, IMX650, IMX663, IMX677, IMX682, IMX686, IMX689, IMX700, IMX703, IMX707, IMX708, IMX709, IMX713, IMX754, IMX766, IMX772, IMX787, IMX789, IMX800, IMX989, ISX014, variants thereof, as well as any other Sony back-illuminated and stacked CMOS image sensors in various camera modules that Sony does not explicitly label as “Exmor RS” image sensors and may or may not have Sony part numbers, but are made by Sony with a similar structure, for example image sensors manufactured by Sony and used in Apple products, including but not limited to, iPhones and iPads, for example the iPhone 7, iPhone 8, iPhone 9, iPhone X, iPhone XS, iPhone 11, iPhone 12, iPhone 13, iPhone 14, iPhone SE, iPad, iPad Air, iPad Mini, iPad Pro, and variants thereof, image sensors manufactured by Sony and used in Google branded products, including but not limited to the Pixel, Pixel 2, Pixel 3, Pixel 4, Pixel 5, and Pixel 6 smartphones, and variants thereof, and image sensors manufactured by Sony and used in other products, including but not limited to other smartphones and tablets. Attached as **Exhibits A1–A6**, and incorporated herein in their entirety, are charts identifying where each element of the Asserted Claims of the ’808 Patent is met by various features or functionalities possessed by the representative Accused Instrumentalities.¹ Plaintiff’s identification in the claim charts is exemplary and based upon public information currently available to Plaintiff.

Based on present information and belief, Plaintiff contends that the Asserted Claims of the ’366 Patent are infringed by Defendants’ back-illuminated and stacked image sensor products utilizing through silicon vias (“TSVs”) (“’366 Patent Accused Instrumentalities”), including but not limited to any back-illuminated and stacked CMOS image sensors utilizing TSVs referred to

¹ While charts are provided for IMX260, IM278, IMX400, IMX490, ISX014 and the image sensor from an Apple iPhone 13 Pro, on information and belief, the remaining products identified herein infringe the Asserted Claims of the ’808 Patent in the same way.

by Sony as “Exmor RS” sensors, including but not limited to the IMX278, variants thereof, as well as any other (i.e. other than Exmor RS sensors) Sony back-illuminated and stacked CMOS image sensors that utilize similar TSVs in various camera modules that may or may not have Sony part numbers, but are made by Sony with a similar structure, for example image sensors manufactured by Sony and used in Apple products, including but not limited to, iPhones and iPads, for example the iPhone 7, iPhone 8, iPhone 9, iPhone X, iPhone XS, iPhone 11, iPhone 12, iPhone 13, iPhone 14, iPhone SE, iPad, iPad Air, iPad Mini, iPad Pro, and variants thereof, image sensors image sensors manufactured by Sony and used in Google branded products, including but not limited to the Pixel, Pixel 2, Pixel 3, Pixel 4, Pixel 5, and Pixel 6 smartphones, and variants thereof, and image sensors manufactured by Sony and used in other products, including but not limited to other smartphones and tablets. Attached as **Exhibit B**, and incorporated herein in their entirety, are charts identifying where each element of the Asserted Claims of the ’366 Patent is met by various features or functionalities possessed by the representative Accused Instrumentalities.² Plaintiff’s identification in the claim charts is exemplary and based upon public information currently available to Plaintiff.

Based on present information and belief, Plaintiff contends that the Asserted Claims of the ’143 Patent are infringed by Defendants’ back-illuminated and stacked image sensor products utilizing TSVs that in one implementation include a shallow TSV and a deep TSV (“’143 Patent Accused Instrumentalities”), including but not limited to any back-illuminated and stacked CMOS image sensors utilizing TSVs referred to by Sony as “Exmor RS” sensors, including but not limited to the ISX014, IMX214, IMX240, IMX400, IMX424, IMX490, variants thereof, as well as any other (i.e. other than Exmor RS sensors) Sony back-illuminated and stacked CMOS image sensors

² While charts are provided for the IMX278, on information and belief, the remaining products identified herein infringe the Asserted Claims of the ’366 Patent in the same way.

that utilize similar TSVs in various camera modules that may or may not have Sony part numbers, but are made by Sony with a similar structure, for example image sensors manufactured by Sony and used in Apple products, including but not limited to, iPhones and iPads, for example the iPhone 7, iPhone 8, iPhone 9, iPhone X, iPhone XS, iPhone 11, iPhone 12, iPhone 13, iPhone 14, iPhone SE, iPad, iPad Air, iPad Mini, iPad Pro, and variants thereof, image sensors image sensors manufactured by Sony and used in Google branded products, including but not limited to the Pixel, Pixel 2, Pixel 3, Pixel 4, Pixel 5, and Pixel 6 smartphones, and variants thereof, and image sensors manufactured by Sony and used in other products, including but not limited to other smartphones and tablets. Attached as **Exhibits C1–C3**, and incorporated herein in their entirety, are charts identifying where each element of the Asserted Claims of the '143 Patent is met by various features or functionalities possessed by the representative Accused Instrumentalities.³ Plaintiff's identification in the claim charts is exemplary and based upon public information currently available to Plaintiff.

Plaintiff further reserves the right to supplement its infringement contentions, if necessary, when it is provided with non-public documents and/or source code from third parties and/or Sony via the discovery process.

Therefore, descriptions of the features and functionalities in the provided claim charts provide Defendants with sufficient information to identify the accused instrumentalities implicated by Plaintiff's contentions.

As described further in the provided claim charts, **Exhibits A1–A6, B and C1–C3**, Plaintiff accuses the Accused Instrumentalities of infringing at least claims 1, 2 and 4–9 of the '808 Patent, claims 1, 2, and 4–8 of the '366 Patent, and claims 1–4 of the '143 Patent.

³ While charts are provided for IMX490, ISX014, and IMX400, on information and belief, the remaining products identified herein infringe the Asserted Claims of the '143 Patent in the same way.

Plaintiff reserves the right to amend its asserted claims and infringement contentions pursuant to the Local Patent Rules of this Court as discovery progresses and additional information is gathered.

III. IDENTIFICATION OF TYPE OF INFRINGEMENT ASSERTED – P.R. 3-1(d)

Plaintiff contends that each element of each Asserted Claim is literally present for the Accused Instrumentalities unless otherwise indicated in the charts attached hereto as Exhibits A, B, and C. To the extent further discovery shows an element not to be literally met or a claim construction or other Court ruling precludes a claim element from being literally met, Plaintiff reserves the right to amend its contentions to assert the doctrine of equivalents.

IV. PRIORITY DATES OF ASSERTED CLAIMS – P.R. 3-1(e)

The '808 Patent was filed on December 28, 2008 and is entitled to priority to South Korean Application No. 10-2007-0139749, filed on December 28, 2007. The '366 Patent was filed on Mar 14, 2008 and is entitled to priority to South Korean Application No. 10-2007-0024914, filed on Mar. 14, 2007. The '143 Patent was filed on November 2, 2009 and is entitled priority to South Korean Application No. 10-2008-0109560, filed on November 5, 2008.

V. PLAINTIFFS' PRODUCTS – P.R. 3-1(f)

Plaintiff is not presently relying on any assertion that its own apparatus, product, device, process, method, act, or other instrumentality practices the claimed inventions.

VI. DOCUMENT PRODUCTION ACCOMPANYING DISCLOSURE

A. Documents Responsive to P.R. 3-2(a)

Plaintiff does not presently possess any relevant, non-privileged documents responsive to P.R. 3-2(a). Plaintiff will supplement this response should any relevant, non-privileged documents be identified in the future.

B. Documents Responsive to P.R. 3-2(b)

Pursuant to P.R. 3-2(b), documents evidencing the “conception, reduction to practice, design, and development of each claimed invention” have been produced under Bates Numbers VXT_00000995 – VXT_00001022. Plaintiff will supplement this response should any additional relevant, non-privileged documents be identified in the future.

C. Documents Responsive to P.R. 3-2(c)

Pursuant to P.R. 3-2(c), copies of the file histories of the asserted patents have been produced under Bates Numbers VXT_00000001 – VXT_00000994.

VII. CONCLUSION

The information contained in these disclosures is based on Plaintiff’s analysis of the facts currently known to it based on Plaintiff’s review of public information reasonably available to it. Additional pertinent information about Defendants’ Accused Instrumentalities is not available without engaging in further discovery. Thus, Plaintiff reserves the right to supplement, modify, and/or amend these disclosures as new information becomes available, and discovery progresses. Plaintiff anticipates that additional facts and relevant documents will be uncovered that will warrant supplementing and/or amending these disclosures.

DATED: September 8, 2022

Respectfully submitted,

/s/ Masood Anjom

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CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of the above and foregoing document has been served on all counsel of record by electronic mail on September 8, 2022.

/s/ Masood Anjom

Masood Anjom

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