

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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SAMSUNG ELECTRONICS CO., LTD., AND SAMSUNG ELECTRONICS  
AMERICA, INC.,  
Petitioner,

v.

APEX BEAM TECHNOLOGIES LLC,  
Patent Owner.

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Case IPR2023-00598  
Patent No. 10,462,767

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**PETITIONER'S UPDATED EXHIBIT LIST**

Pursuant to 37 C.F.R. § 42.63(e), Petitioner Samsung Electronics Co., Ltd., and Samsung Electronics America, Inc. (collectively “Samsung”) hereby submits a current listing of Petitioner exhibits. Exhibit 1042 is being filed today.

| <b>Exhibit</b> | <b>Description</b>                                                                                                                                  |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 1001           | U.S. Patent No. 10,462,767 to Zhang (“’767 patent”)                                                                                                 |
| 1002           | Declaration of Harry Bims, Ph.D. (“Bims”)                                                                                                           |
| 1003           | Reserved                                                                                                                                            |
| 1004           | Prosecution History of the ’767 patent (downloaded from Public PAIR)                                                                                |
| 1005           | International Patent Publication No. 2017/052199 to You et al., filed September 21, 2016, and published March 30, 2017 (“ <i>You</i> ”)             |
| 1006           | International Patent Publication No. 2018/126401 to Liu et al., filed January 5, 2017, and published July 12, 2018 (“ <i>Liu</i> ”)                 |
| 1007           | International Patent Publication No. 2016/136143 to Mallick et al., filed January 28, 2016, and published September 1, 2016 (“ <i>Mallick</i> ”)    |
| 1008           | International Patent Publication No. 2018/081913 to Liu et al., filed November 3, 2016, and published May 11, 2018 (“ <i>Liu913</i> ”)              |
| 1009           | U.S. Patent Publication No. 2011/0038330 to Luo et al., filed July 29, 2010, and published February 17, 2011 (“ <i>Luo</i> ”)                       |
| 1010           | U.S. Patent Publication No. 2011/0176519 to Vitthaladevuni et al., filed November 15, 2010, and published July 21, 2011 (“ <i>Vitthaladevuni</i> ”) |
| 1011           | U.S. Patent Publication No. 2013/0308608 to Hu et al., filed March 15, 2013, and published November 21, 2013 (“ <i>Hu</i> ”)                        |

| Exhibit | Description                                                                                                                                                       |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1012    | U.S. Patent Publication No. 2017/0331670 to Parkvall et al., filed May 13, 2016, and published November 16, 2017 (“ <i>Parkvall</i> ”)                            |
| 1013    | U.S. Patent Publication No. 2012/0122495 to Weng et al., filed November 11, 2010, and published May 17, 2012 (“ <i>Weng</i> ”)                                    |
| 1014    | U.S. Patent Publication No. 2017/0094547 to Yum et al., filed September 23, 2016, and published March 30, 2017 (“ <i>Yum</i> ”)                                   |
| 1015    | International Patent Publication No. 2017/174469 to Wong et al., filed March 31, 2017, and published October 12, 2017 (“ <i>Wong</i> ”)                           |
| 1016    | International Patent Publication No. 2017/079574 to Lee et al., filed November 4, 2016, and published May 11, 2017 (“ <i>Lee</i> ”)                               |
| 1017    | International Patent Publication No. 2015/113664 to Webb et al., filed November 13, 2014, and published August 6, 2015 (“ <i>Webb</i> ”)                          |
| 1018    | U.S. Patent Publication No. 2010/0202382 to Park et al., filed September 11, 2008, and published August 12, 2010 (“ <i>Park</i> ”)                                |
| 1019    | Erik Dahlman et al., <i>4G LTE/LTE-Advanced for Mobile Broadband</i> , 2011 (“ <i>Dahlman</i> ”)                                                                  |
| 1020    | International Patent Publication No. 2017/079530 to Pelletier, filed November 4, 2016, and published May 11, 2017 (“ <i>Pelletier</i> ”)                          |
| 1021    | International Patent Publication No. 2016/130175 to Fwu et al., filed August 11, 2015, and published August 18, 2016 (“ <i>Fwu</i> ”)                             |
| 1022    | Frank Schaich et al., <i>Subcarrier Spacing - How to Make Use of This Degree of Freedom</i> , 2016 IEEE 83rd Vehicular Technology Conference (“ <i>Schaich</i> ”) |
| 1023    | U.S. Patent No. 9,131,490 to Feng et al., issued September 8, 2015 (“ <i>Feng</i> ”)                                                                              |
| 1024    | U.S. Patent No. 9,380,568 to Harrison et al., issued June 28, 2016 (“ <i>Harrison</i> ”)                                                                          |

| Exhibit | Description                                                                                                                                                                                                                                                                                    |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1025    | International Patent Publication No. 2017/023352 to Xiong et al., filed December 16, 2015, and published February 9, 2017 (“ <i>Xiong</i> ”)                                                                                                                                                   |
| 1026    | International Patent Publication No. 2017/026983 to Khoryaev et al., filed December 26, 2015, and published February 16, 2017 (“ <i>Khoryaev</i> ”)                                                                                                                                            |
| 1027    | International Patent Publication No. 2017/171398 to Yi et al., filed March 29, 2017, and published October 5, 2017 (“ <i>Yi</i> ”)                                                                                                                                                             |
| 1028    | U.S. Patent Publication No. 2017/0215170 to Islam et al., filed January 26, 2016, and published July 27, 2017 (“ <i>Islam</i> ”)                                                                                                                                                               |
| 1029    | <i>Apex Beam Technologies LLC v. Samsung Electronics Co., Ltd. et al.</i> , Case No. 2:22-cv-00188-JRG, Dkt. No. 1, Complaint for Patent Infringement (E.D. Tex. June 1, 2022).                                                                                                                |
| 1030    | <i>Apex Beam Technologies LLC v. Samsung Electronics Co., Ltd. et al.</i> , Case No. 2:22-cv-00188-JRG, Plaintiff’s Infringement Contentions Claim Chart for U.S. Patent No. 10,462,767 (E.D. Tex. Jan. 5, 2023)                                                                               |
| 1031    | United States District Courts – National Judicial Caseload Profile, <i>available at</i> <a href="https://www.uscourts.gov/sites/default/files/fcms_na_distprofile0630.2022_0.pdf">https://www.uscourts.gov/sites/default/files/fcms_na_distprofile0630.2022_0.pdf</a> (retrieved Feb. 5, 2023) |
| 1032    | <i>Apex Beam Technologies LLC v. ZTE Corp.</i> , No. 2:22-cv-00031-JRG-RSP, Dkt. No. 37, Docket Control Order (E.D. Tex. Feb. 6, 2023)                                                                                                                                                         |
| 1033    | <i>Apex Beam Technologies LLC v. Samsung Electronics Co., Ltd. et al.</i> , Case No. 2:22-cv-00188-JRG, Plaintiff’s Infringement Contentions Cover Pleading (E.D. Tex. Jan. 5, 2023)                                                                                                           |
| 1034    | 3GPP TS 36.211 v11.3.0 (“Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA); Physical Channels and Modulation (Release 11)”) (June 2013)                                                                                                  |

| Exhibit | Description                                                                                                                                                                                                           |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1035    | 3GPP TS 36.304 v13.0.0 (“Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) procedures in idle mode (Release 13)”) (December 2015)          |
| 1036    | 3GPP TS 36.331 v13.0.0 (“Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification (Release 13)”) (December 2015) |
| 1037    | Declaration of Friedhelm Rodermund                                                                                                                                                                                    |
| 1038    | Petitioner’s <i>Sotera</i> Stipulation                                                                                                                                                                                |
| 1039    | Exhibit from the February 22, 2024 Deposition of Miguel Gomez                                                                                                                                                         |
| 1040    | Deposition Transcript of Miguel Gomez, <i>Apex Beam Technologies LLC v. Samsung Electronics Co., Ltd.</i> , Case No. 2:22-CV-00031-JRG-RSP (E.D. Tex., Nov. 1, 2023)                                                  |
| 1041    | Deposition Transcript of Miguel Gomez (Feb. 22, 2024)                                                                                                                                                                 |
| 1042    | Petitioner’s Demonstratives                                                                                                                                                                                           |

Dated: June 11, 2024

Respectfully submitted,

/Joshua L. Goldberg/  
Joshua L. Goldberg, Lead Counsel  
Reg. No. 59,369

**CERTIFICATE OF SERVICE**

The undersigned certifies that a copy of the foregoing **Petitioner's Updated Exhibit List** and **Exhibit 1042** were served electronically via email on June 11, 2024, in their entirety on the following:

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Dated: June 11, 2024

By: /William Esper/  
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