

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.,  
Petitioners,

v.

HANNIBAL IP, LLC,  
Patent Owner.

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Case IPR2025-01188  
U.S. Patent No. 11,272,535

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**PETITIONERS' UPDATED EXHIBIT LIST**

Pursuant to 37 C.F.R. § 42.63(e), Petitioners Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc. hereby submit a current listing of Petitioners' exhibits. Exhibits 1040-1044, 1047 are being filed today.

| Exhibit | Description                                                                                                                                                                                 |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1001    | U.S. Patent No. 11,272,535 to Chen et al. ("535 patent")                                                                                                                                    |
| 1002    | Declaration of Apostolos Kakaes, Ph.D. ("Kakaes")                                                                                                                                           |
| 1003    | Prosecution History of the '535 patent (downloaded from the USPTO's Patent Center Website)                                                                                                  |
| 1004    | International Patent Application Publication No. WO 2020/087369 to Shi, published May 7, 2020 (" <i>Shi</i> ") <sup>1</sup> , including certified English translation and certification     |
| 1005    | International Patent Application Publication No. WO 2020/045920 to Hong, published March 5, 2020 (" <i>Hong</i> ") <sup>2</sup> , including certified English translation and certification |
| 1006    | Korean Patent Application No. 10-2018-0102907 to Hong, filed August 30, 2018 (" <i>Hong Priority</i> ") <sup>3</sup> , including certified English translation and certification            |
| 1007    | 3GPP TS 38.321 v15.3.0 ("Technical Specification Group Radio Access Network; NR; Medium Access Control (MAC) protocol specification (Release 15)") (Sept. 2018) (" <i>TS-38.321</i> ")      |
| 1008    | International Patent Application Publication No. WO 2019/245779 to Alfarhan et al., published December 26, 2019 (" <i>Alfarhan</i> ")                                                       |

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<sup>1</sup> Citations to *Shi* are made to the English translation.

<sup>2</sup> Citations to *Hong* are made to the English translation.

<sup>3</sup> Citations to *Hong Priority* are made to the English translation.

| Exhibit | Description                                                                                                                                                                                                                                                                                                  |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1009    | U.S. Provisional Application No. 62/735,446 to Alfarhan et al., filed September 24, 2018 (“ <i>Alfarhan Provisional</i> ”)                                                                                                                                                                                   |
| 1010    | 3GPP TSG RAN WG2 NR #103bis Meeting, R2-1813741, Chengdu, China, 8th - 12th October 2018, published in 3GPP website ( <a href="https://www.3gpp.org/ftp/tsg_ran/wg2_rl2/TSGR2_103bis/Docs/">https://www.3gpp.org/ftp/tsg_ran/wg2_rl2/TSGR2_103bis/Docs/</a> ) on September 27, 2018 (“ <i>R2-1813741</i> ”). |
| 1011    | 3GPP TSG RAN WG2 NR #104 Meeting, R2-1816829, Spokane, US, 12th - 16th November 2018, published in 3GPP website ( <a href="https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_104/Docs">https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_104/Docs</a> ) on November 2, 2018 (“ <i>R2-1816829</i> ”).               |
| 1012    | Declaration of Friedhelm Rodermund                                                                                                                                                                                                                                                                           |
| 1013    | 3GPP TS 38.300 v15.2.0 (“Technical Specification Group Radio Access Network; NR; NR and NG-RAN Overall Description; Stage 2 (Release 15)”) (June 2018) (“ <i>TS-38.300</i> ”)                                                                                                                                |
| 1014    | International Patent Application Publication No. WO 2017/136458 to Lim et al., published August 10, 2017 (“ <i>Lim</i> ”)                                                                                                                                                                                    |
| 1015    | Bertsekas, Dimitri et al., <i>Data Networks</i> (2 <sup>nd</sup> Edition), Prentice Hall, 1992 (“ <i>Bertsekas</i> ”).                                                                                                                                                                                       |
| 1016    | U.S. Patent Application Publication No. US 2016/0029413 to Wang et al., published January 28, 2016 (“ <i>Wang</i> ”)                                                                                                                                                                                         |
| 1017    | 3GPP TS 36.300 v8.6.0 (“Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Overall description; Stage 2 (Release 8)”) (September 2008)                                                |

| Exhibit   | Description                                                                                                                                                                                                      |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1018      | 3GPP 36.331 V8.7.0 (“Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA) Radio Resource Control (RRC); Protocol specification (Release 8)”) (September 2009) |
| 1019      | Vincent W.S. Wong et al., <i>Key Technologies for 5G Wireless Systems</i> , Cambridge University Press, 2017 (“Wong”)                                                                                            |
| 1020      | Ali Zaidi et al., <i>5G Physical Layer: Principles, Models and Technology Components</i> , Academic Press, 2018 (“Zaidi”)                                                                                        |
| 1021      | 3GPP 38.331 V15.3.0 (“Technical Specification Group Radio Access Network; NR; Radio Resource Control (RRC) protocol specification (Release 15)”) (September 2018)                                                |
| 1022      | International Patent Application Publication No. WO 2020/069114 to Terry et al., published April 2, 2020 (“Terry”)                                                                                               |
| 1023      | U.S. Provisional Application No. 62/753,579 to Terry et al., filed October 31, 2018 (“Terry Provisional”)                                                                                                        |
| 1024-1039 | Reserved                                                                                                                                                                                                         |
| 1040      | Patent Owner’s Complaint filed in <i>Hannibal IP, LLC v. Samsung Electronics Co., Ltd., et al.</i> , Case No. 4:25-cv-00200 (E.D. Tex.)                                                                          |
| 1041      | U.S. District Court Docket dated October 11, 2025, in <i>Hannibal IP, LLC v. Samsung Electronics Co., Ltd., et al.</i> , Case No. 4:25-cv-00200 (E.D. Tex.)                                                      |
| 1042      | CM/ECF system docket text email dated September 19, 2025, in <i>Hannibal IP, LLC v. Samsung Electronics Co., Ltd., et al.</i> , Case No. 4:25-cv-00200 (E.D. Tex.)                                               |
| 1043      | Email from Patent Owner’s counsel to Petitioner’s counsel dated October 1, 2025                                                                                                                                  |

| Exhibit | Description                                                                                                                                                                                                                                                                 |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1044    | Federal Case Management Statistics – United States District Courts (June 2025), <a href="https://www.uscourts.gov/sites/default/files/document/fcms_na_distprofile0630.2025.pdf">https://www.uscourts.gov/sites/default/files/document/fcms_na_distprofile0630.2025.pdf</a> |
| 1045    | Reserved                                                                                                                                                                                                                                                                    |
| 1046    | Reserved                                                                                                                                                                                                                                                                    |
| 1047    | Excerpt of File History for U.S. Patent Application No. 16/832,093                                                                                                                                                                                                          |

Respectfully submitted,

Dated: October 21, 2025

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

**CERTIFICATE OF SERVICE**

The undersigned hereby certifies that a copy of the foregoing **Petitioners' Updated Exhibit List** and **Exhibits 1040-1044, 1047** were served on October 21, 2025, via e-mail directed to counsel of record for the Patent Owner at the following:

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Patent Owner has consented to electronic service by email.

Dated: October 21, 2025

/ William Esper /  
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