

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

APPLE INC. AND HP INC.,
Petitioners,

v.

XR COMMUNICATIONS, LLC, D/B/A VIVATO TECHNOLOGIES,
Patent Owner.

Case IPR2022-01155
Patent 10,715,235

**PETITIONERS' REPLY TO
PATENT OWNER'S PRELIMINARY RESPONSE**

UPDATED EXHIBIT LIST

EXHIBIT-1001	U.S. Patent No. 10,715,235 to Da Silva (“the ’235 Patent”)
EXHIBIT-1002	Prosecution History of the ’235 Patent (“the Prosecution History”)
EXHIBIT-1003	[RESERVED]
EXHIBIT-1004	Complaint, XR Communications, LLC v. Apple Inc., 6:21-cv-00620, W.D. Tex., June 16, 2021
EXHIBIT-1005	[RESERVED]
EXHIBIT-1006	[RESERVED]
EXHIBIT-1007	U.S. Patent No. 6,006,077 (“Shull”)
EXHIBIT-1008	[RESERVED]
EXHIBIT-1009	U.S. Provisional Application No. 62/423,660 (“’660 Provisional Application”)
EXHIBIT-1010	U.S. Patent No. 6,879,823 (“Raaf”)
EXHIBIT-1011	PCT Application Publication No. WO 02/47286 (“Hottinen”)
EXHIBIT-1012	U.S. Patent No. 6,662,024 (“Walton”)
EXHIBIT-1013	U.S. Patent No. 6,208,863 (“Salonaho”)
EXHIBIT-1014	[RESERVED]
EXHIBIT-1015	[RESERVED]
EXHIBIT-1016	[RESERVED]

- EXHIBIT-1017 Andrea Goldsmith, *Wireless Communications*, Cambridge University Press, 2005
- EXHIBIT-1018 Complaint, *XR Communications, LLC v. HP Inc.*, 6:21-cv-00694, W.D. Tex., July 1, 2021
- EXHIBIT-1019 [RESERVED]
- EXHIBIT-1020 Plaintiff's Infringement Contentions, *XR Communications, LLC v. Apple Inc.*, 6:21-cv-00620, W.D. Tex., Dec. 20, 2021
- EXHIBIT-1021 "How the Pandemic is Shaping Patent Trials in District Courts," Law360, Feb. 18, 2021, available at <https://www.troutman.com/insights/how-the-pandemic-is-shaping-patent-trials-in-district-courts.html>
- EXHIBIT-1022 "2021 Discretionary Denials Have Passed 100, But Are Slowing," Dani Krass, Law360, July 21, 2021
- EXHIBIT-1023 "Leahy And Cornyn Introduce Bipartisan Bill To Support American Innovation And Reduce Litigation", Sep. 29, 2021, available at: <https://www.leahy.senate.gov/press/leahy-and-cornyn-introduce-bipartisan-bill-to-support-american-innovation-and-reduce-litigation>
- EXHIBIT-1024 Restoring the America Invents Act, S. 2891, 117th Cong. (2021)
- EXHIBIT-1025 "Roku's Trial Delay Request OK'd by 'Surprised' Texas Judge," Law360, Aug. 10, 2020, available at <https://www.law360.com/articles/1299933>
- EXHIBIT-1026 Second Declaration and Curriculum Vitae of Dr. Robert Akl
- EXHIBIT-1027 U.S. Patent No. 6,031,877 ("Saunders")
- EXHIBIT-1028 U.S. Patent No. 6,473,036 ("Proctor")

- EXHIBIT-1029 Zhi Ning Chen et al., “Antennas for Base Stations in Wireless Communications,” McGraw Hill, 2009 (“Chen”)
- EXHIBIT-1030 Plaintiff’s Updated Infringement Contentions, XR Communications, LLC v. Apple Inc., 6:21-cv-00620, W.D. Tex., Feb. 25, 2022
- EXHIBIT-1031 Plaintiff’s Updated Infringement Contentions, XR Communications, LLC v. HP Inc., 6:21-cv-00694, W.D. Tex., Feb. 25, 2022
- EXHIBIT-1032 Scheduling Order, XR Communications, LLC v. Apple Inc., 6:21-cv-00620, XR Communications, LLC v. HP Inc., 6:21-cv-00694, W.D. Tex., Jan. 13, 2022
- EXHIBIT-1033 Apple’s first stipulation, XR Communications, LLC v. Apple Inc., 6:21-cv-00620, W.D. Tex., May 19, 2022
- EXHIBIT-1034 HP’s first stipulation, XR Communications, LLC v. HP Inc., 6:21-cv-00694, W.D. Tex., May 19, 2022
- EXHIBIT-1035 Apple’s second stipulation, XR Communications, LLC v. Apple Inc., 6:21-cv-00620, W.D. Tex., Jun. 16, 2022
- EXHIBIT-1036 HP’s second stipulation, XR Communications, LLC v. HP Inc., 6:21-cv-00694, W.D. Tex., Jun. 16, 2022
- EXHIBIT-1037 Apple’s Motion to transfer, XR Communications, LLC v. Apple Inc., 6:21-cv-00620, W.D. Tex., Dec. 10, 2021
- EXHIBIT-1038 HP’s Motion to transfer, XR Communications, LLC v. HP Inc., 6:21-cv-00694, W.D. Tex., Apr. 8, 2022
- EXHIBIT-1039 Order resetting Markman Hearing, XR Communications, LLC v. Apple Inc., 6:21-cv-00620, W.D. Tex., May 23, 2022
- EXHIBIT-1040 Order resetting Markman Hearing, XR Communications, LLC v. HP Inc., 6:21-cv-00694, W.D. Tex., May 24, 2022

- EXHIBIT-1041 Houman Zarrinkoub, “Understanding LTE with MATLAB®,” Wiley, 2014 (“Zarrinkoub”)
- EXHIBIT-1042 Apple’s letter to XR counsel regarding discovery deficiencies, Jan. 13, 2022
- EXHIBIT-1043 Second Amended Standing Order Regarding Motions for Inter-District Transfer, W.D. Tex., Aug. 18, 2021
- EXHIBIT-1044 Apple’s third stipulation, XR Communications, LLC v. Apple Inc., 6:21-cv-00620, W.D. Tex., Nov. 21, 2022
- EXHIBIT-1045 HP’s third stipulation, XR Communications, LLC v. HP Inc., Nov. 21, 2022
- EXHIBIT-1046 Order Granting Motion to Transfer Venue, XR Communications, LLC v. HP Inc., 6:21-cv-00694, W.D. Tex., Aug. 17, 2022 (redacted)
- EXHIBIT-1047 Stay Order, XR Communications, LLC v. Apple Inc., 6:21-cv-00620, W.D. Tex., Nov. 8, 2022
- EXHIBIT-1048 Order Cancelling Discovery Hearing, XR Communications, LLC v. Apple Inc., 6:21-cv-00620, W.D. Tex., Nov. 9, 2022
- EXHIBIT-1049 Discovery and Scheduling Order, XR Communications, LLC v. Apple Inc., 6:21-cv-00620, W.D. Tex., Aug. 25, 2022
- EXHIBIT-1050 U.S. District Courts–Combined Civil and Criminal District Court Management Statistics (June 30, 2022) | United States Courts (uscourts.gov),
https://www.uscourts.gov/sites/default/files/fcms_na_distprofile_0630.2022_0.pdf

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