

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

LSI CORPORATION and AVAGO TECHNOLOGIES U.S., INC.
Petitioner,

v.

REGENTS OF THE UNIVERSITY OF MINNESOTA
Patent Owner.

Case No. IPR2017-01068
Patent No. 5,859,601

DECLARATION OF EDWARD J. MAYLE

I, Edward J. Mayle, hereby declare as follows:

1. I am back-up counsel for Petitioners in this case. I am a member of the Colorado, Washington, D.C., Federal Circuit, and Tenth Circuit bars.
2. Exhibit 1014 is a document produced by Patent Owner (“UMN”) bearing Bates Numbers UMN_0001330-47.

3. Exhibit 1015 is a letter dated May 11, 1999 from UMN to Lucent Technologies, produced by UMN bearing Bates Numbers UMN_0000916.
4. Exhibit 1016 is a document produced by UMN bearing Bates Numbers UMN_0001655.
5. Exhibit 1017 is a document produced by UMN bearing Bates Numbers UMN_0001202-03.
6. Exhibit 1018 is an attachment to Exhibit 1017, produced by UMN bearing Bates Numbers UMN_0001204-05.
7. Exhibit 1019 is a document produced by UMN bearing Bates Numbers UMN_0001072-74.
8. Exhibit 1020 is a letter dated March 12, 2009 from Proskauer Rose LLP to UMN, produced by UMN bearing Bates Numbers UMN_0001055-57.
9. Exhibit 1021 is an attachment to Exhibit 1020, produced by UMN bearing Bates Numbers UMN_0001058-60.
10. Exhibit 1022 is the KAIST, Department of Electrical Engineering, Annual Report 2010/2011.
11. Exhibit 1023 is an article, B. Brickner and J. Moon, *Design of a Rate 6/7 Maximum Transition Run Code*, IEEE Transactions on Magnetics, Vol. 33, No. 5, September 1997.

12. Exhibit 1024 is U.S. Patent No. 5,949,357, “Time-Varying Maximum-Transition-Run Codes for Data Channels.”
13. Exhibit 1025 is U.S. Patent No. 6,278,748, “Rate 5/6 Maximum Transition Run Code for Read Channels.”
14. Exhibit 1026 is U.S. Patent No. 7,006,019, “Rate-7/8 Maximum Transition Rune Code Encoding and Decoding Method and Apparatus.”
15. Exhibit 1027 is U.S. Patent No. 7,057,536, “Rate-13/15 Maximum Transition Run Code Encoding and Decoding Method and Apparatus.”
16. Exhibit 1029 is the May 7, 2018 deposition transcript of Prof. Steven W. McLaughlin.
17. Exhibit 1032 is U.S. Patent No. 4,501,000, “Method of Coding Binary Data.”
18. Exhibit 1033 is U.S. Patent No. 5,537,382, “Partial Response Coding for a Multi-Level Optical Recording Channel.”
19. Exhibit 1034 is the September 15, 2020 deposition transcript of Dr. Jaekyun Moon.
20. Exhibit 1035 is the September 17, 2020 deposition transcript of Prof. Steven W. McLaughlin.

21. Exhibit 1036 is excerpts of Plaintiff's Memorandum of Law in Opposition to Motion for Judgement on the Pleadings Under 35 U.S.C. § 101, Case No. 5:18-cv-00821-EJD-NMC, Dkt. 201 (April 9, 2018).

Executed on October 13, 2020 in Denver, Colorado.

/s/ Edward J. Mayle

Edward J. Mayle