UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

Microchip Technology Inc.,

Petitioner

v.

Aptiv Technologies AG and Aptiv Technologies Limited,

Patent Owners.

Inter Partes and *Post Grant* Review Nos. TBD - U.S. Patent Nos. 9,460,037, 9,619,420, 9,645,962, 10,545,899, 11,176,072 and 11,681,643.

DECLARATION OF JEFFREY L. RAVENCRAFT

I, Jeffrey L. Ravencraft, declare as follows:

1. I am President of the USB Implementers Forum, Inc. ("USB-IF") which owns and operates the website, www.USB.org. The USB-IF is a non-profit corporation that is the support organization and forum for the advancement, adoption, and promotion of USB technology as defined in the USB specifications.

2. I have been President of USB-IF since 2010; and prior to that, I was Chair of the Board of USB-IF for approximately eight years. Throughout the course of my roles with USB-IF, I have become well informed about the operations of the USB- IF, including how the USB-IF publishes versions of the Universal Serial Bus specifications on its website at www.USB.org. I have personal knowledge of the matters set forth herein, or I have knowledge of the matters set forth herein based on my review of the corporate records of USB-IF and my knowledge of USB-IF's operations and practices, and if I am called upon to testify, I could testify competently thereto.

3. The USB-IF routinely publishes new versions of the Universal Serial Bus specification on www.USB.org, including, most recently, USB4™ Version 2.0 in October 2022, press release issued on or about October 18, 2022.

4. Each major version, errata and engineering change notice (ECN), or other supplement to the Universal Serial Bus specification is published on

www.USB.org, along with a corresponding publishing date, both in the document and as shown on the website at www.USB.org. The publishing date generally corresponds to the approximate date that the document was actually made available for download to the public on www.USB.org.

5. Attached as Exhibit 1018 is a true and accurate copy of the Universal Serial Bus Specification (Revision 2.0) ("USB 2.0 Specification") that was released on or about April 27, 2000.

6. The USB 2.0 Specification was released to the public on or about April 27, 2000 and was available for public download on www.USB.org on or about the same day.

7. The USB 2.0 Specification as it is available on www.USB.org today and as shown in Exhibit 1018 is the same document that was released on or about April 27, 2000, although not including any ECNs.

8. Attached as Exhibit 1019 is a true and accurate copy of the Universal Serial Bus Type-C Cable and Connector Specification (Revision 1.2) that was released on or about March 25, 2016.

9. The Universal Serial Bus Type-C Cable and Connector Specification (Revision 1.2), as shown in Exhibit 1019, was released to the public on or about

March 25, 2016 and was available for public download on www.USB.org on or about the same day.

10. Attached as Exhibit 1020 is a true and correct copy of the Universal Serial Bus Power Delivery Specification (Revision 3.0, version 1.0a) that was released on or about March 25, 2016.

11. The Universal Serial Bus Power Delivery Specification (Revision 3.0, version 1.0a), as shown in Exhibit 1020, was released to the public on or about March 25, 2016 and was available for public download on www.USB.org on or about the same day.

12. Attached as Exhibit 1021 is a true and correct copy of the Universal Serial Bus Implementers Forum Full and Low Speed Electrical and Interoperability Compliance Test Procedure (Revision. 1.3) that was released on or about February 9, 2004.

13. The Universal Serial Bus Implementers Forum Full and Low Speed Electrical and Interoperability Compliance Test Procedure (Revision. 1.3), as shown in Exhibit 1021, was released to the public on or about February 9, 2004 and was available for public download on www.USB.org on or about the same day.

14. Attached as Exhibit 1022 is a true and correct copy of the On-The-Go and Embedded Host Supplement to the USB Revision 2.0 Specification (Revision 2.0, version 1.1a) ("OTG Supplement") that was released on or about July 27, 2012.

15. The OTG Supplement, as shown in Exhibit 1022, was released to the public on or about July 27, 2012 and was available for public download on www.USB.org on or about the same day.

16. Attached as Exhibit 1023 is a true and accurate copy of the Universal Serial Bus Specification (Revision 3.0) ("USB 3.0 Specification") that was released on or about November 12, 2008.

17. The USB 3.0 Specification as shown in Exhibit 1023 is the same document that was released and available on or about November 12, 2008, although not including any ECNs.

18. Attached as Exhibit 1070 is a true and correct copy of the Universal Serial Bus Micro-USB Cables and Connectors Specification (Revision 1.01) that was released on or about April 4, 2007.

19. The Universal Serial Bus Micro-USB Cables and Connectors Specification (Revision 1.01), as shown in Exhibit 1070, was released to the public

on or about April 4, 2007 and was available for public download on www.USB.org on or about the same day.

20. I hereby declare under penalty of perjury under the laws of the United States of America that the statements made herein of my own knowledge are true and correct, and all statements made on information and belief are believed to be true. I affirm that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code.

DATED this 13th day of December 2023.

JEFFREY L. RAVENCRAFT

Microchip Ex. 1024, p. 6
Microchip v. Aptiv
IPR2024-00495