UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

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SAMSUNG ELECTRONICS CO., LTD.,
SAMSUNG ELECTRONICS AMERICA, INC.,
FOSSIL GROUP, INC.,
FOSSIL STORES I, INC.,
FOSSIL PARTNERS, L.P.,
OURA HEALTH OY, AND
ONEPLUS TECHNOLOGY (SHENZHEN) CO., LTD.

Petitioners,

v.

OMNI MEDSCI, INC.,

Patent Owner.

_____

Case IPR2025-01252
Patent No. 11,160,455

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DECLARATION OF JONATHAN BRADFORD IN SUPPORT OF PETITION FOR *INTER PARTES* REVIEW OF U.S. PATENT NO. 11,160,455

1. I, Jonathan Bradford, make the following Declaration pursuant to 28 U.S.C. § 1746: I am a Senior IP Paralegal at the law firm of Ropes & Gray LLP.

2. I provide this Declaration in connection with the above-identified *Inter Partes* Review proceeding that is before the United States Patent and Trademark Office ("USPTO"). Unless otherwise stated, the facts stated in this Declaration are based on my personal knowledge.

3. Ex. 1001 is a true and correct copy of U.S. Patent No. 11,160,455 ("'455"), which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

4. Ex. 1002 is a true and correct copy of File History of U.S. Application No. 17/078,771 ("'455FH"), which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

5. Ex. 1009 is a true and correct copy of *Omni MedSci, Inc. v. Apple Inc.*, No. 2021-1229, 2022 WL 2062168 (Fed. Cir. June 8, 2022), which was obtained at my direction. This document has been marked with an exhibit label

and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

6. Ex. 1017 is a true and correct copy of *Apple Inc. v. Omni MedSci, Inc.*, No. 23-01034, ECF 44 (Fed. Cir. June 21, 2024), which was obtained at my direction. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

7. Ex. 1018 is a true and correct copy of *Omni MedSci, Inc. v. Apple Inc.*, 2:18-cv-00134-RWS, Dkt. No. 211 (E.D. Tex. June 24, 2019) ("CC Order"), which was obtained at my direction. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

8. Ex. 1019 is a true and correct copy of *Omni MedSci, Inc. v. Apple Inc.*, 2:18-cv-00429-RWS, Dkt. No. 152 (E.D. Tex. Aug. 14, 2019), which was obtained at my direction. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

9. Ex. 1020 is a true and correct copy of Second Amended Docket Control Order, June 16, 2025. *Omni MedSci, Inc. v. Samsung Electronics Co., Ltd. et al.*, No. 2:24-cv-01070-JRG-RSP (E.D. Tex.), which was obtained at my

direction. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

10. Ex. 1023 is a true and correct copy of Defendants' Supplemental Invalidity and Subject Matter Eligibility Contentions, July 18, 2025. Omni MedSci, Inc. v. Samsung Electronics Co., Ltd. et al., No. 2:24-cv-01070-JRG-RSP (E.D. Tex.), which was obtained at my direction. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

11. Ex. 1025 is a true and correct copy of U.S. Patent No. 9,241,676 ("Lisogurski"), which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

12. Ex. 1026 is a true and correct copy of U.S. Patent Pub. No. 2010/0217102 ("LeBoeuf"), which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

13. Ex. 1027 is a true and correct copy of U.S. Patent No. 8,108,036 ("Tran"), which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

14. Ex. 1028 is a true and correct copy of U.S. Patent Pub. No. 2005/0049468A1 ("Carlson"), which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

15. Ex. 1030 is a true and correct copy of U.S. Patent No. 7,029,628 ("Tam"), which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

16. Ex. 1031 is a true and correct copy of U.S. Patent No. 8,050,730 ("Zhang"), which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

17. Ex. 1032 is a true and correct copy of U.S. Patent No. 8,821,397 ("Al-Ali"), which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

18. Ex. 1033 is a true and correct copy of U.S. Patent Pub. No. 2011/0237911 ("Lamego"), which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

19. Ex. 1034 is a true and correct copy of U.S. Patent No. 5,942,749 ("Takeuchi"), which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

20. Ex. 1035 is a true and correct copy of U.S. Patent No. 5,822,473 ("Magel"), which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

21. Ex. 1036 is a true and correct copy of US Patent 5,592,124 ("Mullins"), which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

22. Ex. 1037 is a true and correct copy of E.F. Schubert, Light-Emitting Diodes (Cambridge Univ. Press, 2nd ed. reprinted 2014), which was obtained at my direction. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

23. Ex. 1038 is a true and correct copy of "The Biomedical Engineering Handbook," by Joseph D. Bronzino (1995), which was obtained at my direction. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

24. Ex. 1039 is a true and correct copy of U.S. Patent No. 8,079,735 ("Vakil"), which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

25. Ex. 1041 is a true and correct copy of U.S. Patent Pub. No. 2012/0197093 ("Valencell-093"), which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

26. Ex. 1042 is a true and correct copy of U.S. Patent No. 8,862,196 ("Lynn"), which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

27. Ex. 1043 is a true and correct copy of U.S. Patent No. 8,412,655 ("Colman"), which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

28. Ex. 1044 is a true and correct copy of U.S. Patent No. 5,511,553 ("Segalowitz"), which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

29. Ex. 1045 is a true and correct copy of U.S. Patent No. 6,801,799 ("Mendelson"), which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

30. Ex. 1046 is a true and correct copy of U.S. Patent No. 6,662,033 ("Casciani"), which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

31. Ex. 1047 is a true and correct copy of U.S. Patent No. 5,028,787 ("Rosenthal"), which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

32. Ex. 1048 is a true and correct copy of U.S. Pat. No. 9,239,951 ("Hoffberg"), which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

33. Ex. 1049 is a true and correct copy of U.S. Pat. Pub. 2007/0194939 ("Alvarez"), which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

34. Ex. 1050 is a true and correct copy of U.S. Patent No. 8,364,226 ("Diab"), which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

35. Ex. 1051 is a true and correct copy of U.S. Patent No. 6,931,269 ("Terry") which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

36. Ex. 1059 is a true and correct copy of U.S. Patent No. 5,497,769 ("Gratton") which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

37. Ex. 1060 is a true and correct copy of U.S. Patent No. 5,827,182 ("Raley") which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

38. Ex. 1061 is a true and correct copy of U.S. Patent No. 7,764,982 ("Dalke") which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

39. Ex. 1064 is a true and correct copy of U.S. Patent No. 5,554,273 ("Demmin") which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

40. Ex. 1065 is a true and correct copy of U.S. Patent No. 5,953,713 ("Behbehani") which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

41. Ex. 1077 is a true and correct copy of U.S. Patent Publication No. 2006/0184040 ("Keller") which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

42. Ex. 1081 is a true and correct copy of US. Patent No. 9,651,533 ("'533") which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

43. Ex. 1082 is a true and correct copy of U.S. Patent No. 10,517,484 ("'484") which was obtained from the USPTO's Patent Center system. This document has been marked with an exhibit label and page numbers on each page at the bottom right corner. However, no alterations, other than these noted markings, have been made to this document.

44. Certain pages have been resized to 8.5 x 11 inches. No content was removed by this resizing.

45. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further 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 18 U.S.C. § 1001. If called to testify as to the truth of the matters stated herein, I could and would testify competently.

46. I declare under penalty of perjury that the foregoing is true and correct.

Executed this 5th day of August, 2025, in Boston, Massachusetts.

/Jonathan Bradford/
Jonathan Bradford
ROPES & GRAY LLP