UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

SAMSUNG ELECTRONICS CO., LTD.;
SAMSUNG ELECTRONICS AMERICA, INC.,
Petitioner

v.

OURARING, INC.
Patent Owner.

Case No. PGR2024-00030
U.S. Patent No. 11,868,178

PETITIONER'S UPDATED LIST OF EXHIBITS

LIST OF EXHIBITS[1]

Ex. No.	Description
Ex-1001	U.S. Patent No. 11,868,178 ("the '178 Patent")
Ex-1002	Declaration of Dr. Brian W. Anthony
Ex-1003	Curriculum Vitae of Dr. Brian W. Anthony
Ex-1004	Prosecution History of the '178 Patent
Ex-1005	U.S. Patent Publication No. 20120016245 to Niwa ("Niwa")
Ex-1006	U.S. Patent No. 8,954,135 to Yuen ("Yuen")
Ex-1007	U.S. Patent No. 10,303,867 to Schröder ("Schröder")
Ex-1008	Certified Translation of DE 102013012339.9 to Schröder
Ex-1009	Original DE 102013012339.9 to Schröder
Ex-1010	U.S. Patent Publication No. 20140244009 to Mestas ("Mestas")
Ex-1011	U.S. Provisional Patent Application No. 61/768,279 to Mestas
Ex-1012	U.S. Patent No. 8,700,111 to LeBoeuf ("LeBoeuf")
Ex-1013	U.S. Patent Publication No. 20120218184 to Wissmar ("Wissmar")
Ex-1014	INTENTIONALLY LEFT BLANK
Ex-1015	INTENTIONALLY LEFT BLANK
Ex-1016	INTENTIONALLY LEFT BLANK
Ex-1017	INTENTIONALLY LEFT BLANK

[1] Four-digit pin citations that begin with 0 are to the branded numbers added by Samsung in the bottom right corner of the exhibits. All other pin citations are to original page, column, paragraph, or line numbers.

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Ex-1018	INTENTIONALLY LEFT BLANK
Ex-1019	INTENTIONALLY LEFT BLANK
Ex-1020	Claim Mapping Table
Ex-1021	INTENTIONALLY LEFT BLANK
Ex-1022	Parallel Citations (Schröder '867 to Certified Translation of DE 102013012339.9)
Ex-1023	*Dynamic Drinkware*-type analysis for Mestas
Ex-1024	U.S. Patent No. 4,830,014 to Goodman ("Goodman")
Ex-1025	U.S. Patent No. 6,745,061 to Hicks ("Hicks")
Ex-1026	U.S. Patent No. 7,190,986 to Hannula ("Hannula")
Ex-1027	Volker Konig et al., *Reflectance Pulse Oximetry – Principles and Obstetric Application in the Zurich System*, 14 Journal of Clinical Monitoring (Aug. 1998) ("Konig")
Ex-1028	U.S. Patent No. 6,608,562 to Kimura ("Kimura")
Ex-1029	Kevin K. Tremper et al., *Pulse Oximetry*, 70 Journal of American Society of Anesthesiologists, Inc. (Jan. 1989) ("Tremper")
Ex-1030	Y. Mendelson et al., *A Wearable Reflectance Pulse Oximeter for Remote Physiological Monitoring*, Proceedings of 28th IEEE EMBS Annual International Conference (Aug. 30-Sept. 3, 2006) ("Mendelson 2006")
Ex-1031	Sokwoo Rhee et al., *Artifact-Resistant, Power-Efficient Design of Finger-Ring Plethysmographic Sensors Part I: Design and Analysis*, IEEE (2000) ("Rhee 2000 Part I")

Ex. No.	Description
Ex-1032	Sokwoo Rhee et al., *Artifact-Resistant, Power-Efficient Design of Finger-Ring Plethysmographic Sensors Part II: Prototyping and Benchmarking*, IEEE Proceedings of 22nd Annual EMBS Int'l Conference (July 23-28, 2000) ("Rhee 2000 Part II")
Ex-1033	Sokwoo Rhee et al., *Artifact-Resistant Power-Efficient Design of Finger-Ring Plethysmographic Sensors*, 48 IEEE Transactions of Biomedical Engineering (July 2001) ("Rhee 2001")
Ex-1034	U.S. Patent No. 6,699,199 to Asada ("Asada '199")
Ex-1035	Sokwoo Rhee, *Design and Analysis of Artifact-Resistive Finger Photoplethysmographic Sensors for Vital Sign Monitoring*, MIT (June 2000) ("Rhee Thesis 2000")
Ex-1036	C.T. Olofson et al., *Machining of Titanium Alloys* (1965) ("Olofson")
Ex-1037	H. Harry Asada et al., *Mobile Monitoring with Wearable Photoplethysmographic Biosensors*, IEEE Engineering in Medicine & Biology Magazine 28 (May-June 2003) ("Asada 2003")
Ex-1038	Denisse Castaneda et al., *A review on wearable photoplethysmography sensors and their potential future applications in health care*, Int J Biosens Bioelectron (2018)
Ex-1039	U.S. Patent No. 7,468,036 to Rulkov et al. ("Rulkov")
Ex-1040	U.S. Patent Publication No. 2006/0211924 to Dalke et al. ("Dalke")
Ex-1041	*Guidelines To Enhancing The Heart-Rate Monitoring Performance Of Biosensing Wearables* (2014)
Ex-1042	U.S. Patent No. 4,880,304 to Jaeb et al. ("Jaeb")
Ex-1043	Tom Lister et al., *Optical Properties of human skin*, Journal of Biomedical Optics (2012)
Ex-1044	John G. Webster, *Design of Pulse Oximeters*, CRC Press (1997)

Ex. No.	Description
Ex-1045	U.S. Patent Publication No. 20130211291 to Tran ("Tran")
Ex-1046	WO 2001/017421A1 to Lindberg ("Lindberg")
Ex-1047	WO 2011/132009 to Nyiradi ("Nyiradi")
Ex-1048	U.S. Patent Application Publication No. 2014/0361945 to Misra et al. ("Misra")
Ex-1049	U.S. Patent Application Publication No. 2014/0361934 to Ely et al. ("Ely")
Ex-1050	European Patent No. 2281205 (Chen)
Ex-1051	Lawrence K. Au et al., *Episodic Sampling: Towards Energy-Efficient Patient Monitoring with Wearable Sensors*, Annual International Conference of the IEEE Engineering in Medicine and Biology Society (2009)
Ex-1052	Anastasios Petropoulos et al., *Flexible PCB-MEMS flow sensor*, Procedia Engineering 47 236-239 (2012) ("Petropoulos")
Ex-1053	Tianjia Sun et al., *Wireless Power Transfer for Medical Microsystems*, Springer (2013) ("Sun")
Ex-1054	U.S. Patent Pub. No. 2014/0187160 to Prencipe ("Prencipe")
Ex-1055	H. Ardebili and Michael G. Pecht, *Encapsulation Technologies for Electronic Applications*, William Andrew (2009) ("Ardebili")
Ex-1056	Ciprian Ciofu et al., *Injection and Micro Injection of Polymeric Plastics Materials: A Review*, Int'l J. Modern Mfg. Techs. 49 (2013)
Ex-1057	Richard J. Ross, *LCP Injection Molded Packages—Keys to JEDEC 1 Performance*, IEEE, 2004 Electronic Components and Technology Conference 1807 (2004)

Ex. No.	Description
Ex-1058	Tadamoto Sakai, *Encapsulation Process for Electronic Devices Using Injection Molding Method*, 12 Advances in Polymer Technology 61 (1993)
Ex-1059	N.J. Teh et al., *Embedding of Electronics within Thermoplastic Polymers using Injection Moulding Technique*, IEEE, 2000 Int'l Electronics Manufacturing Technology Symposium 10 (2000)
Ex-1060	U.S. Patent No. 6,201,698
Ex-1061	U.S. Patent No. 4,012,629
Ex-1062	INTENTIONALLY LEFT BLANK
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Ex-1079	Dr. Anthony's Supplemental Declaration
Ex-1080	Mr. Michael Davies Declaration
Ex-1081	Patrick P. Mercier, Ph.D. Deposition Transcript Volume 1, dated June 24, 2025
Ex-1082	Patrick P. Mercier, Ph.D. Deposition Transcript Volume 2, dated June 25, 2025
Ex-1083	Mr. Andrew T. Clarke's Deposition Transcript, dated June 18 2025
Ex-1084	Francine Gemperle et al., *Design for Wearability*, in Digest of Papers Second Int'l Symposium on Wearable Computers 116 (1998)
Ex-1085	U.S. Patent No. 9,582,034
Ex-1086	U.S. Patent No. 10,842,429
Ex-1087	U.S. Patent No. 11,599,147
Ex-1088	U.S. Patent Publication No. 20070059595 ("Endo")
Ex-1089	U.S. Patent No. 9,385,396 ("Goh")
Ex-1090	Xie, Wen. "When Commercial Success Can Prove Non-Obviousness." IP WatchDog. February 10, 2022. https://ipwatchdog.com/2022/02/10/commercial-success-can-prove-non-obviousness/id=145576/

Ex. No.	Description
Ex-1091	Lee, Jihyoung, Kenta Matsumura, Ken-ichi Yamakoshi, & Peter Rolfe. "Comparison between red, green and blue light reflection photoplethysmography for heart rate monitoring during motion." Conference Proceedings: Annual International Conference of the IEEE Engineering in Medicine and Biology Society 2013. July 1, 2013. https://www.researchgate.net/publication/257601230_Comparison_between_red_green_and_blue_light_reflection_photoplethysmography_for_heart_rate_monitoring_during_motion
Ex-1092	De Ridder, Benjamin, Bart Van Rompaey, Jarl K Kampen, Steven Haine, & Tinne Dilles. "Smartphone Apps Using Photoplethysmography for Heart Rate Monitoring: Meta-Analysis." JMIR Cardio. February 27, 2018. https://pmc.ncbi.nlm.nih.gov/articles/PMC6834218/
Ex-1093	Castaneda, Denisse, Aibhlin Esparza, Mohammad Ghamari, Cinna Soltanpur, & Homer Nazeran. "A review on wearable photoplethysmography sensors and their potential future applications in health care." National Library of Medicine. August 6, 2018. https://pmc.ncbi.nlm.nih.gov/articles/PMC6426305/
Ex-1094	Marston, William. "Photoelectric Plethysmography." ScienceDirect. July 1, 2025. https://www.sciencedirect.com/topics/medicine-and-dentistry/photoelectric-plethysmography
Ex-1095	Kameyama, Koujiro & Kiyoshi Mita. "Optical semiconductor device and method of manufacturing the same." Google Patents. June 1, 2010. https://patents.google.com/patent/US7728438B2/en?q=(transparent+epoxy+potting+compound)&oq=transparent+epoxy+potting+compound
Ex-1096	INTENTIONALLY LEFT BLANK

Ex. No.	Description
Ex-1097	Takahashi, Dean. "Precise heart-rate monitor wristwatch Mio Alpha debuts today." VentureBeat. December 3, 2012. https://venturebeat.com/business/precise-heart-rate-monitor-wristwatch-mio-alpha-debuts-today/
Ex-1098	Dickinson, Liz. "ALPHA - the Holy Grail of Heart Rate (Look Ma, no hands!)." Kickstarter. June 25, 2012. https://www.kickstarter.com/projects/alphaheartrate/alpha-the-holy-grail-of-heart-rate-look-ma-no-hand/description
Ex-1099	Wearables. "Mio Alpha." Wearables.com. July 1, 2025. https://wearables.com/products/mio-alpha
Ex-1100	Mio. "ALPHA: Complete User Guide." Physical Enterprises Inc. December 3, 2012. https://www.swimmershop.it/upload/MIO_Alpha_UserGuide_Eng.pdf
Ex-1101	INTENTIONALLY LEFT BLANK
Ex-1102	Bolestsis, Costas, Simon Mccallum, & Brynjar F. Landmark . "The Use of Smartwatches for Health Monitoring in Home-Based Dementia Care." Lecture Notes in Computer Science. July 1, 2015. https://www.researchgate.net/publication/280946621_The_Use_of_Smartwatches_for_Health_Monitoring_in_Home-Based_Dementia_Care
Ex-1103	Biggs, John. "The Basis B1 Fitness Band Is Amazing But Still Needs Polish." TechCrunch. March 18, 2013. https://techcrunch.com/2013/03/18/the-basis-b1-fitness-band-is-amazing-but-still-needs-polish/
Ex-1104	Weiss, C. C. "Scosche RHYTHM simplifies fitness monitoring." New Atlas. October 16, 2012. https://newatlas.com/scosche-rhythm-fitness-monitor/24569/

Ex. No.	Description
Ex-1105	Scosche. "User Guide." RHYTHM: WIRELESS PULSE MONITOR. October 18, 2012. https://www.scosche.com/media/wysiwyg/PDFs/RTHM_web_ENGLISH.pdf
Ex-1106	INTENTIONALLY LEFT BLANK
Ex-1107	INTENTIONALLY LEFT BLANK
Ex-1108	INTENTIONALLY LEFT BLANK
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Ex-1113	INTENTIONALLY LEFT BLANK
Ex-1114	INTENTIONALLY LEFT BLANK
Ex-1115	INTENTIONALLY LEFT BLANK
Ex-1116	INTENTIONALLY LEFT BLANK
Ex-1117	Botha, Roelof. "Jawbone: The Rise and Fall of the First Wearable Technology Company." Crucible Moments. December 2, 2023. https://www.sequoiacap.com/podcast/crucible-moments-jawbone/
Ex-1118	INTENTIONALLY LEFT BLANK
Ex-1119	INTENTIONALLY LEFT BLANK
Ex-1120	Jauch. "White Paper: Introduction to Lithium Polymer Battery Technology." Jauch. November 1, 2018. https://www.jauch.com/downloadfile/5c5050fa5b6510e9a8ad76299baae4e53/white_paper_introduction_to_lipo_battery_technology_11-2018_en.pdf

Ex. No.	Description
Ex-1121	LG Electronics. "Battery Cell of Curved Shape and Battery Pack Employed With The Same." Justia. March 10, 2009. https://patents.justia.com/patent/20110097615
Ex-1122	Cohen, Nancy. "LG Chem turns to stepped, curve and cable batteries." Phys.Org. October 9, 2013. https://phys.org/news/2013-10-lg-chem-cable-batteries.html
Ex-1123	LG Electronics. "Press Release: LG Unveils World's First "Real" Curved Smartphone." LG. October 30, 2013. https://www.lg.com/levant_en/about-lg/press-and-media/lg-unveils-worlds-first-real-curved-smartphone
Ex-1124	Pierce, David. "LG G Flex Review." The Verge via WayBack Machine. December 6, 2013. https://web.archive.org/web/20250114175821/https://www.theverge.com/2013/12/6/5181536/lg-g-flex-review
Ex-1125	Sridhar, Srivatsan. "Samsung SDI introduces curved battery for wearable devices." fonearena. April 15, 2014. https://www.fonearena.com/blog/101236/samsung-sdi-introduces-curved-battery-for-wearable-devices.html
Ex-1126	Sheetal. "Samsung SDI tends to invest more in batteries for wearable devices." SammyFans. April 22, 2022. https://www.sammyfans.com/2022/04/22/samsung-sdi-to-invest-more-in-batteries-for-wearable/
Ex-1127	Samsung. "[Battery101] Innovation Creates Batteries for Wearables." Samsung SDI Newsroom. August 09, 2024. https://news.samsungsdi.com/global/articleView?seq=166
Ex-1128	Kyung-Don, Joo. "Samsung SDI curved battery is tops." Korea JoongAng Daily. April 15, 2014. https://koreajoongangdaily.joins.com/2014/04/15/industry/Samsung-SDI-curved-battery-is-tops/2987967.html

Ex. No.	Description
Ex-1129	Samsung. “Samsung Gear Fit Awarded “The Best Mobile Device” at the MWC 2014.” Samsung Newsroom. February 28, 2014. https://news.samsung.com/global/samsung-gear-fit-awarded-the-best-mobile-device-at-the-mwc-2014
Ex-1130	Summerson, Cameron. “[MWC 2014] Samsung Announces The Gear Fit, A Fitness Tracker Smartwatch Band Thingy.” Android Police. February 24, 2014. https://www.androidpolice.com/2014/02/24/mwn-2014-samsung-announces-the-gear-fit-a-fitness-tracker-smarwatch-band-thingy/
Ex-1131	Harden, Dan. “The Making of the Nike Fuelband.” Whipsaw. June 6, 2015. https://www.whipsaw.com/latest/the-making-of-the-nike-fuelband
Ex-1132	Nike. “Nike+ Fuelband.” FCC ID Database. January 5, 2012. https://fccid.io/QYUM411/User-Manual/user-manual-1630150.pdf
Ex-1133	mikeselectricstuff. “Nike+ Fuelband teardown.” YouTube. May 31, 2012. https://www.youtube.com/watch?v=7xdajSS_cOU
Ex-1134	“M411 Nike+ FuelBand Teardown Internal Photos Nike.” FCC ID Database. January 24, 2012. https://fccid.io/QYUM411/Internal-Photos/internal-photos-1630135
Ex-1135	アーロン ビー ウィースト, アーロン ビー ウィースト, ジャミアン アール コベット, & ジャミアン アール コベット. “Wearable device assembly with athletic function.” Google Patents. November 1, 2011. https://patents.google.com/patent/JP6071890B2/en?q=(curved+PCB)&before=priority:20130101&page=1
Ex-1136	OURA. “Previous Oura Ring Generations.” OURA. July 1, 2025. https://support.ouraring.com/hc/en-us/articles/360025570153-Previous-Oura-Ring-Generations#h_01H55VMQGE9BGRY7K7W22RG5B6

Ex. No.	Description
Ex-1137	Swappa. “Sell Oura Ring Gen 2.” Swappa. July 1, 2025. https://swappa.com/sell/product/oura-ring-gen-2
Ex-1138	OURA . “Product: Oura Gen 3 Heritage Black.” OURA. July 1, 2025. https://ouraring.com/product/rings/oura-gen3/heritage/black
Ex-1139	OURA. “OURA ring. Improve sleep. Perform better.” Kickstarter. August 15, 2015. https://www.kickstarter.com/projects/oura/oura-ring-improve-sleep-perform-better
Ex-1140	McLear, John. “NFC Ring - One Smart Ring, Unlimited Possibilities.” Kickstarter. July 20, 2013. https://www.kickstarter.com/projects/mclear/nfc-ring
Ex-1141	Museum of Failure. “Logbar Ring.” Museum of Failure. March 16, 2024. https://museumoffailure.com/exhibition/logbar-ring
Ex-1142	TheTouch X s.r.o. “HB Ring.” TheTouch via Wayback Machine. Accessed on May 6, 2025. https://web.archive.org/web/20250506183725/https://my.thetouchx.com/
Ex-1143	Urbanowicz Jewelers. “Latest in Wearable Tech: This Ring Lets You See and Feel Your Lover's Heartbeat in Real Time.” Urbanowicz Jewelers Blog. September 6, 2016. https://www.pittsburghdiamonds.com/urbanowicz-jewelers-blog/2016/Sep/06/latest-wearable-tech-ring-lets-you-see-and-feel-yo/
Ex-1144	IPS Team. “HB Ring Review – Innovative Wedding Band To Feel Heartbeat Of Your Loved One?.” Infinite Power Solutions. October 1, 2020. https://www.infinitepowersolutions.com/hb-ring/
Ex-1145	INTENTIONALLY LEFT BLANK
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Ex-1147	INTENTIONALLY LEFT BLANK

Ex. No.	Description
Ex-1148	Wiggers, Kyle. "The love of your life can hear your heartbeat in real time with smart wedding band." digitaltrends. August 4, 2016. https://www.digitaltrends.com/wearables/hb-ring-touch-wedding-band-smart-heartbeat/
Ex-1149	Huffington, Arianna. "My Q and A With Petteri Lahtela, Whose OURA Ring Will Track Your Sleep." Huffpost. August 19, 2015. https://www.huffpost.com/entry/my-q-and-a-with-petteri-l_b_8010488
Ex-1150	Ben Greenfield. "11 Crucial Health Questions & Mighty Self-Quantification Ring To Rule Them All: The Official Oura Ring Q&A." BenGreenfieldLife. July 18, 2016. https://bengreenfieldlife.com/article/self-quantification-articles/how-does-the-oura-ring-work/
Ex-1151	Ben Greenfield. "The New Oura Ring: Track Naps, Advanced HRV Tracking, Personalized Sleep Typing, Client Dashboard Feature & Much More!." BenGreenfieldLife. November 30, 2017. https://bengreenfieldlife.com/article/self-quantification-articles/the-new-oura-ring/
Ex-1152	OURA. "Why Oura." OURA. July 1, 2025. https://ouraring.com/why-oura
Ex-1153	OURA. "Rings." OURA. July 1, 2025. https://ouraring.com/product/rings
Ex-1154	de Zambotti, Massimiliano, Leonardo Rosas, Ian M. Colrain, & Fiona C. Baker. "The Sleep of the Ring: Comparison of the ŌURA Sleep Tracker Against Polysomnography." National Library of Medicine. March 1, 2019. https://pubmed.ncbi.nlm.nih.gov/28323455/

Ex. No.	Description
Ex-1155	Pearson, Anthony. "The Oura Ring For Personal Sleep Analysis: Lots of Hype and Data, Little Science, Utility or Accuracy." The Skeptical Cardiologist. Accessed on July 6, 2025. https://theskepticalcardiologist.com/2019/02/09/the-oura-ring-for-personal-sleep-analysis-lots-of-hype-and-data-little-science-utility-or-accuracy/
Ex-1156	Robbins, Rebecca, Matthew D. Weaver, Jason P. Sullivan, Stuart F. Quan, Katherine Gilmore, Samantha Shaw, Abigail Benz, Salim Qadri, Laure K. Barger, Charles A. Czeisler, & Jeanne F. Duffy. "Accuracy of Three Commercial Wearable Devices for Sleep Tracking in Healthy Adults." Sensors. August 7, 2024. https://www.mdpi.com/1424-8220/24/20/6532
Ex-1157	Ferguson, Abby. "As an athlete, I'm not a fan of smart rings. Here's why." Pocketlint. September 20, 2024. https://www.pocket-lint.com/smart-rings-arent-for-athletes/
Ex-1158	Seitz, Patrick. "Health Tracking Is Moving To Smart Rings From Watches. Oura Leads Market." Investor's Business Daily. January 9, 2025. https://www.investors.com/news/technology/smart-rings-proliferate-at-ces-2025
Ex-1159	Shirer, Michael, Jitesh Ubrani, & Lujyne Amro. "IDC Forecasts Continued Growth for Wearables But Growth Will Be Uneven Across Product Categories." International Data Corporation. September 26, 2024. https://my.idc.com/getdoc.jsp?containerId=prUS52615024
Ex-1160	Nalbach, Tyler. "Apple Watch Sales Over the Years: How Many Have Been Sold Since 2015." Longvadon. March 28, 2025. https://longvadon.com/blogs/blog/apple-watch-sales
Ex-1161	Oura Team. "Meet Oura: Discover the Brand-New Oura Ring 4." The Pulse Blog. October 3, 2024. https://ouraring.com/blog/oura-ring-4/

Ex. No.	Description
Ex-1162	Apple. "Why Apple Watch." Apple. July 1, 2025. https://www.apple.com/watch/why-apple-watch/
Ex-1163	Apple. "Compare Apple Watch models." Apple. July 1, 2025. https://www.apple.com/watch/compare/
Ex-1164	Oura Team. "Meet Oura: Technology in Oura Ring Gen3." The Pulse Blog. February 7, 2024. https://ouraring.com/blog/ring-technology/
Ex-1165	Carroll, Rory. "Pebble rocks CES 2013 with launch of its wireless watch." The Guardian. January 9, 2013. https://www.theguardian.com/technology/2013/jan/09/ces-2013-pebble-wireless-watch
Ex-1166	Samsung. "[Galaxy History ③] Evolution of the Galaxy Watch Series: Reimagining the Watch." Samsung Newsroom. July 8, 2024. https://news.samsung.com/global/galaxy-history-%E2%91%A2-evolution-of-the-galaxy-watch-series-reimagining-the-watch
Ex-1167	Golder, Peter N. & Gerard J. Tellis. "Pioneer Advantage: Marketing Logic or Marketing Legend?." Journal of Marketing Research. May 1993. https://www.jstor.org/stable/3172825
Ex-1168	Bennett, Brian. "Jawbone Up24 review: A great fitness tracker with style and comfort." CNet. November 13, 2013. https://www.cnet.com/reviews/jawbone-up24-review/
Ex-1169	Ricker, Thomas. "Jawbone Up fitness band review." The Verge via Wayback Machine. November 6, 2011. https://web.archive.org/web/20250527221407/https://www.theverge.com/2011/11/6/2541783/jawbone-up-review
Ex-1170	Seifert, Dan. "Fitbit Force review." The Verge via Wayback Machine. October 18, 2013. https://web.archive.org/web/20250524010659/https://www.theverge.com/2013/10/18/4848424/fitbit-force-review

Ex. No.	Description
Ex-1171	Lawrence, Erin. "Misfit Shine Fitness and Activity Monitor – Review." TechGadgets Canada. May 29, 2019. https://www.techgadgetscanada.com/misfit-shine-fitness-activity-monitor-review/
Ex-1172	"Nike+ FuelBand Manual." Nike via Wayback Machine. January 18, 2013. https://web.archive.org/web/20130118195034/http://support-en-us.nikeplus.com/ci/fattach/get/276180/0/filename/FuelBand_Manual_Online_ENG_edit12b_rev.pdf
Ex-1173	Stein, Scott. "Samsung Gear Fit review: Curved-screen fitness smartwatch one step short." CNet. April 7, 2014. https://www.cnet.com/reviews/samsung-gear-fit-review/
Ex-1174	Maker, Ray. "Mio Alpha Optical Heart Rate Monitor In-Depth Review (Bluetooth Smart/ANT+)." DC Rainmaker. February 12, 2013. https://www.dcrainmaker.com/2013/02/monitor-bluetooth-smartant.html
Ex-1175	Maker, Ray. "Basis B1 Watch In-Depth Review." DC Rainmaker. July 25, 2013. https://www.dcrainmaker.com/2013/07/basis-b1-review.html
Ex-1176	Bonnington, Christina. "Review: Garmin Vivofit." Wired. March 7, 2014. https://www.wired.com/2014/03/garmin-vivofit/
Ex-1177	"Lifeband Touch[1] Activity Tracker - Medium." LG. Accessed on July 11, 2025. https://www.lg.com/us/mobile-accessories/lg-FB84-BM-activity-tracker
Ex-1178	"Polar Loop User Manual: Important Information." Polar. Accessed on July 11, 2025. https://support.polar.com/e_manuals/Loop/Polar_Loop_user_manual_English/ch07.html

Ex. No.	Description
Ex-1179	Healey, Nic. "Sony SmartBand SWR10 review: Sony SmartBand tries to be too smart for its own good." CNet. June 13, 2014. https://www.cnet.com/reviews/sony-smartband-swr10-review/
Ex-1180	Porter, Jediah. "Jawbone UP Move Review." GearLab. April 11, 2018. https://www.outdoorgearlab.com/reviews/fitness/pedometer/jawbone-up-move
Ex-1181	Welch, Chris. "Jawbone UP3." The Verge via Wayback Machine. April 23, 2015. https://web.archive.org/web/20241117073856/https://www.theverge.com/2015/4/23/8469123/jawbone-up-3-review-fitness-tracker
Ex-1182	clay. "How Much Did Fitbit Raise? Funding & Key Investors." clay Dossier. March 31, 2025. https://www.clay.com/dossier/fitbit-funding
Ex-1183	Osterloh, Rick. "Google completes Fitbit acquisition." Google Blog. January 14, 2021. https://blog.google/products/platforms-devices/fitbit-acquisition/
Ex-1184	Tracxn Technologies Limited. "Misfit Wearables - Company Profile." Tracxn. June 20, 2025. https://tracxn.com/d/companies/misfit-wearables/__gG8yNvcKEPPBr9mV9PD_Gg3pOm462qPzhY9vWkA7NTU#about-the-company
Ex-1185	Singleton, Micah. "Fossil acquires wearable maker Misfit for $260 million." The Verge. November 15, 2015. https://www.theverge.com/2015/11/12/9725478/fossil-group-acquires-wearable-maker-misfit-260-million
Ex-1186	Dane, Sonali. "Jawbone: The Biggest Unicorn Death of 2017." Wharton PEVC. March 2, 2018. https://www.whartonugpevc.com/articles/2018/3/23/jawbone-the-biggest-unicorn-death-of-2017

Ex. No.	Description
Ex-1187	CBInsights. “Jawbone’s Valuation History Gave Early Hints As To Its Eventual End.” CBInsights: Research. July 7, 2017. https://www.cbinsights.com/research/jawbone-valuation-history/
Ex-1188	Somerville, Heather. “Jawbone's demise a case of 'death by overfunding' in Silicon Valley.” Reuters. July 10, 2017. https://www.reuters.com/article/technology/jawbones-demise-a-case-of-death-by-overfunding-in-silicon-valley-idUSKBN19V0BS/
Ex-1189	FinSMEs. “Jawbone Raises $49M from Andreessen Horowitz.” FinSMEs. March 17, 2011. https://www.finsmes.com/2011/03/jawbone-raises-49m-from-andreessen-horowitz.html
Ex-1190	Jill Duffy. “Fitbit Force Review.” PC Mag. March 24, 2014. https://www.pcmag.com/reviews/fitbit-force
Ex-1191	Curry, David. “Fitbit Revenue and Usage Statistics (2025).” Business of Apps. January 22, 2025. https://www.businessofapps.com/data/fitbit-statistics/
Ex-1192	Dolan, Brian. “Misfit's Shine raised $846K on Indiegogo; new product expected this fall.” MobiHealth News via Wayback Machine. January 24, 2013. https://web.archive.org/web/20160219184005/http://mobihealthnews.com/20024/misfits-shine-raised-846k-on-indiegogo-new-product-expected-this-fall/
Ex-1193	Duffy, Jill. “Jawbone UP Review.” PC Mag. March 20, 2013. https://www.pcmag.com/reviews/jawbone-up
Ex-1194	Apple. “Apple Watch Series 1 - Technical Specifications.” Apple: Documentation. July 1, 2025. https://support.apple.com/en-us/111985

Ex. No.	Description
Ex-1195	Smith, Chris. "Sony SmartWatch 2 official: specs, features, release date and pricing." Android Authority. June 25, 2013. https://www.androidauthority.com/sony-smartwatch-2-official-specs-features-release-date-pricing-234796
Ex-1196	"Samsung Galaxy Gear." GSM Arena. Accessed on July 10, 2025. https://www.gsmarena.com/samsung_galaxy_gear-7716.php
Ex-1197	"What are the key features of Samsung Galaxy Gear(SM-V700)?." Samsung. October 13, 2020. https://www.samsung.com/in/support/mobile-devices/what-are-the-key-features-of-samsung-galaxy-gear/
Ex-1198	"Sony SmartWatch 2 SW2." GSM Arena. Accessed on July 10, 2025. https://www.gsmarena.com/sony_smartwatch_2_sw2-7719.php
Ex-1199	"Sony SmartWatch 3 SWR50." GSM Arena. Accessed on July 10, 2025. https://www.gsmarena.com/sony_smartwatch_3_swr50-7691.php
Ex-1200	Bhartiya, Swapnil. "Review: LG Watch Urbane Has Great Design, Missing Features." LiNUX.com. May 19, 2015. https://www.linux.com/news/review-lg-watch-urbane-has-great-design-missing-features/
Ex-1201	Maker, Ray. "Fitbit Surge In-Depth Review." DC Rainmaker. January 20, 2015. https://www.dcrainmaker.com/2015/01/fitbit-surge-review.html
Ex-1202	Pebble Technology. "Pebble: E-Paper Watch for iPhone and Android." Kickstarter. April 11, 2012. https://www.kickstarter.com/projects/getpebble/pebble-e-paper-watch-for-iphone-and-android

Ex. No.	Description
Ex-1203	Heater, Brian. "Smartwatch pioneer and Kickstarter darling Pebble is returning in a new form." TechCrunch. January 27, 2025. https://techcrunch.com/2025/01/27/smartwatch-pioneer-and-kickstarter-darling-pebble-is-returning-in-a-new-form/
Ex-1204	Arthur, Charles. "Review: Pebble's smart watch doesn't try too hard - but does what you need." The Guardian. May 21, 2013. https://www.theguardian.com/technology/blog/2013/may/21/pebble-smart-watch-kickstarter
Ex-1205	Ulanoff, Lance. "Pebble was one of the best smartwatches ever and now it's a miracle if you can get one to work." techradar. July 1, 2024. https://www.techradar.com/health-fitness/smartwatches/pebble-was-one-of-the-best-smartwatches-ever-and-now-its-a-miracle-if-you-can-get-one-to-work
Ex-1206	Mlot, Stephanie. "CES 2013: Pebble Smartwatch to Ship Jan. 23." PC Mag. January 9, 2013. https://www.pcmag.com/news/ces-2013-pebble-smartwatch-to-ship-jan-23
Ex-1207	Patel, Nilay. "Pebble smartwatch review." The Verge. January 28, 2013. https://www.theverge.com/2013/1/28/3924904/pebble-smartwatch-review
Ex-1208	France-Presse, Agence. "Time is ripe for smart watches, say analysts." Gadgets360. April 1, 2013. https://www.gadgets360.com/others/news/time-is-ripe-for-smart-watches-say-analysts-348697
Ex-1209	Buckley, Sean. "Samsung's Galaxy Gear ads play on your nostalgia, invoke Dick Tracy." Engadget. October 6, 2013. https://www.engadget.com/2013-10-06-samsungs-galaxy-gear-ads-play-on-your-nostalgia.html
Ex-1210	Zeis, Adam. "The best smartwatches from CES 2014." smartwatchfans via Wayback Machine. January 13, 2014. https://web.archive.org/web/20140330184434/http://www.smartwatchfans.com/best-smartwatches-ces-2014

Ex. No.	Description
Ex-1211	Arthur, Charles & Samuel Gibbs. "Apple makes move into wearables with smartwatch and new iPhones." The Guardian. September 9, 2014. https://www.theguardian.com/technology/2014/sep/09/apple-watch-cupertino-investors
Ex-1212	Musil, Steven. "Apple still dominates growing global smartwatch sector." CNET. May 6, 2020. https://www.cnet.com/tech/mobile/apple-still-dominates-growing-global-smartwatch-sector/
Ex-1213	McLear Limited. "New wearable device makes payments simple." McLEAR. December 4, 2018. https://mclear.co/news/new-wearable-device-makes-payments-simple/
Ex-1214	Hakikat, Atal. "The World's First Smart Ring You'll Actually Wear." The Zine. November 26, 2016. https://www.thezine.com.au/the-worlds-first-smart-ring-youll-actually-wear/
Ex-1215	Ringly. "2018 Update: A New Chapter." The Buzz: By Ringly. January 22, 2018. https://ringly.com/blogs/news/why-is-everything-sold-out-on-ringly-com
Ex-1216	Ayres, Carly. "In the Details: Making a Smart Ring That Women Would Actually Want to Wear." Core77. July 3, 2014. https://www.core77.com/posts/27250/in-the-details-making-a-smart-ring-that-women-would-actually-want-to-wear-27250
Ex-1217	Mamiit, Aaron. "CES 2015: The 'Ring' to Control Them All? How Logbar Gesture Control Ring Works." TechTimes. January 7, 2015. https://www.techtimes.com/articles/25084/20150107/ces-2015-the-ring-to-control-them-all-how-logbar-gesture-control-ring-works.htm

Ex. No.	Description
Ex-1218	Venho, Niina. "Moodmetric Ring: Smart Jewelry To Manage Stress." Indiegogo. September 2015. https://www.indiegogo.com/projects/moodmetric-ring-smart-jewelry-to-manage-stress#/
Ex-1219	Mufson, Beckett. "Finally, a Mood Ring for the 21st Century." VICE. November 24, 2016. https://www.vice.com/en/article/finally-a-wearable-tech-mood-ring-for-the-21st-century/
Ex-1220	Gorton, Thomas. "The humble mood ring gets a wearable tech update." DAZED. November 26, 2014. https://www.dazeddigital.com/artsandculture/article/22694/1/the-humble-mood-ring-gets-a-wearable-tech-update
Ex-1221	Nuanic. "What We Do." Nuanic. December 7, 2024. https://nuanic.com/about-us
Ex-1222	Nuanic. "Product: The 2nd Generation Ring is Here." Nuanic. July 1, 2025. https://nuanic.com/product
Ex-1223	K Wearables. "K Home." K Ring. July 1, 2025. https://mykring.com/
Ex-1224	Johns, Steven. "The gesture Ring by Logbar has been reviewed as "the worst product ever made"." Neowin. November 20, 2014. https://www.neowin.net/news/the-gesture-ring-by-logbar-has-been-reviewed-as-the-worst-product-ever-made/
Ex-1225	Logbar Inc. "Ring by logbar - Shortcut Everything." Kickstarter. February 27, 2014. https://www.kickstarter.com/projects/1761670738/ring-shortcut-everything

Ex. No.	Description
Ex-1226	Perez, Sarah. "Ringly Raises $5.1 Million Led By Andreessen Horowitz To Expand Its Smart Jewelry Collection Beyond Rings." TechCrunch. January 21, 2015. https://techcrunch.com/2015/01/21/ringly-raises-5-1-million-from-andreessen-horowitz-to-expand-its-smart-jewelry-collection-beyond-rings/
Ex-1227	McLear, John. "One Smart Ring. Unlimited Possibilities." Kickstarter. October 1, 2015. https://www.kickstarter.com/projects/mclear/nfc-ring-2016-range-one-smart-ring-unlimited-possi
Ex-1228	Campbell, Philip. "Kerv Wearables launches contactless payment ring at Wearable Technology Show 2017." The Payments Association. March 8, 2017. https://thepaymentsassociation.org/article/kerv-wearables-launches-contactless-payment-ring-at-wearable-technology-show-2017/
Ex-1229	Chang, Lulu. "Armed with NFC, the Kerv smart ring works like a contactless credit card." digitaltrends. March 8, 2017. https://www.digitaltrends.com/mobile/kerv-smart-ring-works-like-contactless-credit-card-2/
Ex-1230	Fintech News Hong Kong. "ORII – The World's First Voice-Powered Smart Ring Launched." Fintech News. August 23, 2017. https://fintechnews.hk/1862/iot/orii-the-worlds-first-voice-powered-smart-ring-launched-2/
Ex-1231	Stein, Scott. "Token Ring aims to wrap security around your finger." CNET. June 27, 2017. https://www.cnet.com/reviews/token-ring-preview/
Ex-1232	Draper, Sam. "GO2SLEEP Wearable Smart Ring Detects Sleep Apnea and More." Wearable Technologies. August 22, 2018. https://wt-obk.wearable-technologies.com/2018/08/go2sleep-wearable-smart-ring-sleep-detects-sleep-apnea-and-more/

Ex. No.	Description
Ex-1233	Wolfe, Daniel. "7 setbacks for wearable payments." American Banker. March 16, 2018. https://www.americanbanker.com/payments/slideshow/7-setbacks-for-wearable-payments
Ex-1234	Origami Labs. "ORII Kickstarter | The Voice Powered Ring." Kickstarter. July 18, 2017. https://www.kickstarter.com/projects/187732114/orii-your-voice-powered-smart-ring/
Ex-1235	Colt, Anna. "ORII - Fastest Way to Send Texts Without a Screen." Indiegogo. September 13, 2017. https://www.indiegogo.com/projects/orii-fastest-way-to-send-texts-without-a-screen/#/
Ex-1236	Jennings, Ralph. "This Hong Kong 'Smart Ring' Startup Raised $2.5M To Crack The Wearables Market." Forbes. June 7, 2018. https://www.forbes.com/sites/ralphjennings/2018/06/07/why-10000-people-are-buying-finger-rings-to-answer-their-smartphones/
Ex-1237	Token. "Token Begins Production of its Next-Generation Multifactor Authentication Smart Ring." BusinessWire. August 3, 2023. https://www.businesswire.com/news/home/20230803058819/en/Token-Begins-Production-of-its-Next-Generation-Multifactor-Authentication-Smart-Ring
Ex-1238	Exchange Rates. "British Pound (GBP) To US Dollar (USD) Exchange Rate History for September 11, 2016." Exchange Rates. July 6, 2025. https://www.exchange-rates.org/exchange-rate-history/gbp-usd-2016-09-11
Ex-1239	sleepon INC. "GO2SLEEP: AI-powered device for restful sleep." Indiegogo. November 22, 2017. https://www.indiegogo.com/projects/go2sleep-ai-powered-device-for-restful-sleep#/

Ex. No.	Description
Ex-1240	Cassidy, Anne. “The wedding tech now at the heart of couples' nuptials.” BBC. April 23, 2023. https://www.bbc.com/news/business-65322101
Ex-1241	SLEEPON. “SLEEPON Go2sleep Review.” SLEEPON Blog. April 12, 2024. https://www.sleepon.us/sleepon-go2sleep-review/
Ex-1242	Hughes, Locke. “Meet Oura: The Origins and Evolution of Oura Ring.” The Pulse Blog. February 10, 2025. https://ouraring.com/blog/history-of-oura/
Ex-1243	OURA. “Product: Oura Gen 3 Heritage Stealth.” OURA. July 1, 2025. https://ouraring.com/product/rings/oura-gen3/heritage/stealth
Ex-1244	iFixIt. “Oura Ring 2 Teardown.” iFixIt. July 9, 2020. https://www.ifixit.com/Teardown/Oura+Ring+2+Teardown/135207
Ex-1245	OURA. “Product: Oura Gen3 Horizon.” OURA. July 1, 2025. https://ouraring.com/product/rings/oura-gen3/horizon
Ex-1246	OURA. “Product: Oura Ring 4.” OURA. July 1, 2025. https://ouraring.com/product/rings/oura-ring-4/silver
Ex-1247	OURA. “Product: Oura Gen 3 Heritage Silver.” OURA. July 1, 2025. https://ouraring.com/product/rings/oura-gen3/heritage/silver
Ex-1248	Gebhart, Andrew. “Echo Loop puts Amazon's Alexa on your finger.” CNET. September 25, 2019. https://www.cnet.com/home/smart-home/echo-loop-puts-amazons-alexa-on-your-finger/
Ex-1249	Smith, Dale. “Amazon Echo Loop -- everything we know about Amazon's wacky new smart ring.” CNET. October 8, 2019. https://www.cnet.com/tech/mobile/amazon-echo-loop-everything-we-know-about-amazons-wacky-new-smart-ring/

Ex. No.	Description
Ex-1250	Koetsier, John. "Amazon's Echo Loop Smart Ring Gives A Whole New Meaning To 'Talk To The Hand'." Forbes. September 26, 2019. https://www.forbes.com/sites/johnkoetsier/2019/09/26/amazons-echo-loop-gives-whole-new-meaning-to-talk-to-the-hand/
Ex-1251	Newbega RFID Technology. "The Best Smart NFC Ring: Oura Ring 3, McLear Ringpay, and More Compared." Newbega. April 24, 2024. https://www.newbega.com/news/nfc-ring.html
Ex-1252	Team XYZ. "Health-tracking smart ring from Circular.xyz aims to improve your sleep, energy, and activity." XYZ Blog. August 10, 2022. https://gen.xyz/blog/circularxyz
Ex-1253	Fedow, Lenore. "Ultrahuman Unveils Luxury Smart Ring." Technology. January 13, 2025. https://nationaljeweler.com/articles/13558-ultrahuman-unveils-luxury-smart-ring
Ex-1254	Hill, Simon. "Review: Ultrahuman Ring Air." Wired. October 22, 2023. https://www.wired.com/review/ultrahuman-ring-air/
Ex-1255	Luna. "Unlocking Human Potential." Luna Zone. July 1, 2025. https://www.lunazone.com/
Ex-1256	Noise. "Global Smart Wearable Leader, Noise, Launches Its First Smart Ring, Luna Ring; Consolidates Its Leadership With a New Form Factor." Business Wire. July 25, 2023. https://www.businesswire.com/news/home/20230725952026/en/Global-Smart-Wearable-Leader-Noise-Launches-Its-First-Smart-Ring-Luna-Ring-Consolidates-Its-Leadership-With-a-New-Form-Factor
Ex-1257	Movano. "Movano Health to Launch the Evie Ring on November 20." Movano Health. October 30, 2023. https://ir.movano.com/news-detail/movano-health-to-launch-the-evie-ring-on-november-20/61b61e38-ed7b-4abe-833d-40a2f43ab99b

Ex. No.	Description
Ex-1258	Leabman, Michael. "Enhanced Heart Rate in Motion Accuracy with the Evie Ring Using Advanced Deep Learning Algorithms." Evie Blog. June 1, 2024. https://eviering.com/blogs/news/enhanced-heart-rate-in-motion-accuracy-with-the-evie-ring-using-advanced-deep-learning-algorithms
Ex-1259	Lida. "CES 2024: The Evie Ring is The First Wearable Smart Ring Designed for Women." The Sypnotix. January 8, 2024. https://www.sypnotix.com/reviews/ces-2024-evie-ring
Ex-1260	Savvides, Lexy. "Samsung Galaxy Ring Review: My Favorite Smart Ring, Hands Down." CNET. July 17, 2024. https://www.cnet.com/tech/mobile/samsung-galaxy-ring-review-my-favorite-smart-ring-hands-down/
Ex-1261	Cimino, Kaitlyn. "Samsung Galaxy Ring is here: Price, size, release date, and everything else!." Android Authority. July 10, 2024. https://www.androidauthority.com/samsung-galaxy-ring-3340682/
Ex-1262	RingConn. "RingConn Gen 1." RingConn. July 1, 2025. https://ringconn.com/products/ringconn-gen-1?srsltid=AfmBOorH6utnNebg1JBj_xU2IqZRu2nK2l8P4AuRGO5-BQQvzwUcSd9t&variant=47273813672244
Ex-1263	RingConn. "About Us: Why RingConn?." RingConn. July 1, 2025. https://ringconn.com/pages/about-us
Ex-1264	Tang, Angela. "Zepp Health Announces US Launch Date for Amazfit Helio Ring." Zepp. April 30, 2024. https://www.zepp.com/press-release/zepp-health-announces-us-launch-date-for-amazfit-helio-ring

Ex. No.	Description
Ex-1265	Leclair, Dave. “The Amazfit Helio Ring launches May 15 for only $299 to take on Samsung Galaxy Ring.” Tom's Guide. May 1, 2024. https://www.tomsguide.com/phones/the-amazfit-helio-ring-launches-may-15-for-only-dollar299-to-take-on-samsung-galaxy-ring
Ex-1266	amazfit. “Amazfit Helio Ring.” amazfit. July 1, 2025. https://www.amazfit.com/products/amazfit-helio-ring
Ex-1267	Chu, Marian (YoonJee). “Sky Labs seeks global expansion of world’s first BP monitor ring.” BioWorld. April 22, 2025. https://www.bioworld.com/articles/719393-sky-labs-seeks-global-expansion-of-worlds-first-bp-monitor-ring?v=preview
Ex-1268	Barton, Katerina. “This South Korean startup developed a wearable ring to treat hypertension.” Fast Company. March 3, 2024. https://www.fastcompany.com/91033750/sky-labs-most-innovative-companies-2024
Ex-1269	CircularRing. “Circular Ring 2: World’s Most Advanced Health Tracking Ring.” Kickstarter. March 5, 2025. https://www.kickstarter.com/projects/circular-ring/circular-ring-2-worlds-most-advanced-health-tracking-ring
Ex-1270	Circular. “Shop.” Circular. July 1, 2025. https://www.circular.xyz/shop
Ex-1271	Torres, JC. “World's First ECG Smart Ring Raises Nearly $2.5 Million in Funding Just Within A Month.” Yanko Design. April 12, 2025. https://www.yankodesign.com/2025/04/12/worlds-first-ecg-smart-ring-raises-nearly-2-5-million-in-funding-just-within-a-month/
Ex-1272	RingConn. “RingConn Gen 2.” RingConn. July 1, 2025. https://ringconn.com/products/ringconn-gen-2?variant=48162846769460

Ex. No.	Description
Ex-1273	Gebhart, Andrew. "RingConn Gen 2 Air Review." PC Mag. April 4, 2025. https://www.pcmag.com/reviews/ringconn-gen-2-air
Ex-1274	Allison, Conor. "CES 2025: Wareable's Best in Show awards revealed." Wareable. January 13, 2025. https://www.wareable.com/ces/the-best-wearables-at-ces-2025
Ex-1275	Sean. "Noise Luna Ring Gen 2.0 & ColorFit Pro 6 Debuted at CES 2025." GIZMOCHINA. January 9, 2025. https://www.gizmochina.com/2025/01/09/noise-luna-ring-2-colorfit-pro-6-debut-ces-2025/
Ex-1276	Ultrahuman. "World's First Luxury Smart Ring." Ultrahuman. July 1, 2025. https://www.ultrahuman.com/rare/
Ex-1277	Song, Victoria. "Ultrahuman thinks its 18-karat gold smart ring is worth $1,900." The Verge. January 7, 2025. https://www.theverge.com/2025/1/7/24337049/ultrahuman-rare-ces-2025-smart-ring-wearables
Ex-1278	Kollat, Matt. "Circular's next-gen smart ring lands with wireless charging and digital sizing – pre-orders now open." yahoo!tech. March 5, 2025. https://tech.yahoo.com/wearables/articles/circular-next-gen-smart-ring-080000928.html?guccounter
Ex-1279	Samsung. "How to charge the Galaxy Ring." Samsung. July 1, 2025. https://www.samsung.com/us/support/answer/ANS10003281/
Ex-1280	amazfit. "Helio Ring." amazfit US. July 1, 2025. https://us.amazfit.com/products/amazfit-helio-ring
Ex-1281	CircularRing. "Circular Smart Ring: Sleep, Energy, Performance." Indiegogo. August 1, 2025. https://www.indiegogo.com/projects/circular-smart-ring-sleep-energy-performance#/

Ex. No.	Description
Ex-1282	Ultrahuman. "Ultrahuman Ring - Decode Your Metabolism." Indiegogo. July 1, 2022. https://www.indiegogo.com/projects/ultrahuman-ring-decode-your-metabolism--3#/
Ex-1283	Ultrahuman. "Ultrahuman Ring AIR." Kickstarter. May 15, 2024. https://www.kickstarter.com/projects/ultrahuman/ultrahuman-ring-air
Ex-1284	Exchange Rates UK. "British Pound to US Dollar History: 2023." Exchange Rates. July 1, 2025. https://www.exchangerates.org.uk/GBP-USD-spot-exchange-rates-history-2023.html
Ex-1285	Movano. "Movano Health Reports 2023 Financial Results and Provides Business Update." Movano Health. April 4, 2024. https://ir.movano.com/news-detail/movano-health-reports-2023-financial-results-and-provides-business-update/f99b07bf-7165-4ec3-8042-2b4cd67de674
Ex-1286	RingConn. "RingConn Smart Ring: Smartest Wearable for You." Indiegogo. November 1, 2025. https://www.indiegogo.com/projects/ringconn-smart-ring-smartest-wearable-for-you--2#/
Ex-1287	RingConn. "RingConn Gen 2: Ultimate Lightness, 12 Days Battery." Kickstarter. December 23, 2024. https://www.kickstarter.com/projects/2059923007/ringconn-gen-2-ultimate-lightness-12-days-battery
Ex-1288	Noise. "LUNA Ring: 70 health metrics. 1 Smart Ring." Indiegogo. March 1, 2024. https://www.indiegogo.com/projects/luna-ring-70-health-metrics-1-smart-ring#/
Ex-1289	CircularRing. "Shop: Circular Ring Slim." Circular. July 1, 2025. https://shop.circular.xyz/pages/circular-ring-slim

Ex. No.	Description
Ex-1290	Chesnokova, Sofia. "Meet Circular Ring 2: French wearable taking on Oura with cutting-edge features." TFN. January 7, 2025. https://techfundingnews.com/meet-circular-ring-2-french-wearable-taking-on-oura-with-cutting-edge-features/
Ex-1291	Ultrahuman. "Shop: Ring AIR." Ultrahuman. July 1, 2025. https://www.ultrahuman.com/ring/buy/us/
Ex-1292	Lomas, Natasha. "Ultrahuman stakes a claim to luxury smart rings with trio of 18K gold and pt950 platinum bands." Tech Crunch. January 7, 2025. https://techcrunch.com/2025/01/07/ultrahuman-stakes-a-claim-to-luxury-smart-rings-with-trio-of-18k-gold-and-pt950-platinum-bands/
Ex-1293	RingConn. "RingConn Gen 1: Midnight Black." RingConn. July 1, 2025. https://ringconn.com/products/ringconn-gen-1
Ex-1294	RingConn. "RingConn Gen 2 Air Review." RingConn. July 1, 2025. https://ringconn.com/products/ringconn-gen-2-air
Ex-1295	RingConn. "RingConn Gen 2: The World's First Ultra-Thin Smart Ring With Sleep Apnea Monitoring." RingConn. July 1, 2025. https://ringconn.com/pages/ringconn-gen-2?gad_source
Ex-1296	INTENTIONALLY LEFT BLANK
Ex-1297	ID Tech Editorial Team. "Pentagon Cancels $96M Biometric Ring Contract Amid Privacy Concerns." IDTechWire. March 7, 2025. https://idtechwire.com/pentagon-cancels-96m-biometric-ring-contract-amid-privacy-concerns/
Ex-1298	Welch, Carley. "Pentagon's $96M wearable contract sparks protest, accusations of vendor preference." Breaking Defense. February 19, 2025. https://breakingdefense.com/2025/02/pentagons-96m-wearable-contract-sparks-protest-accusations-of-vendor-preference/

Ex. No.	Description
Ex-1299	Latto, Joel. "Oura Ring Gen3 Upgrade Offer FAQ (and Launch PR Fail)." Joel Latto. October 27, 2021. https://joellatto.com/2021/10/27/oura-gen3-ring-upgrade-offer-faq-and-launch-pr-fail/
Ex-1300	Gelbart, Bryn. "The Oura Ring Is Even More on Sale Now." Esquire. December 2, 2024. https://www.esquire.com/lifestyle/tech/a63033170/black-friday-oura-ring-deals-2024/
Ex-1301	buyFSA Experts. "Is an Oura Ring FSA/HSA Eligible?." buyFSA. December 5, 2024. https://buyfsa.com/blogs/fsa-hsa-eligibility-list/is-an-oura-ring-fsa-hsa-eligible
Ex-1302	Welch, Carley. "'This acquisition is no longer required:' Defense Health Agency cancels $96M wearable solicitation." Breaking Defense. March 5, 2025. https://breakingdefense.com/2025/03/this-acquisition-is-no-longer-required-defense-health-agency-cancels-96m-wearable-solicitation/
Ex-1303	Allison, Conor. "Oura Ring 4 vs. Ring 3: What we recommend after six months." Wareable. April 13, 2025. https://www.wareable.com/wearable-tech/oura-ring-4-vs-ring-3-key-differences-compared
Ex-1304	Lee, Derrek. "Oura Ring 4 vs. Oura Ring Gen 3: Should you upgrade?." AndroidCentral. February 18, 2025. https://www.androidcentral.com/wearables/oura-ring-4-vs-oura-ring-gen-3
Ex-1305	Pangarkar, Tajammul. "Fitness Tracker Statistics 2025 By Health, Activities." Market.Us News. January 13, 2025. https://www.news.market.us/fitness-tracker-statistics/

Ex. No.	Description
Ex-1306	Google Scholar. “Search: "diffusion of innovations".” Google Scholar. July 7, 2025. https://scholar.google.com.au/scholar?rlz=1C1GGLS_enAU291AU303&q=diffusion%20of%20innovations&um=1&ie=UTF-8&hl=en&sa=N&tab=ps
Ex-1307	Matthews, Tim. “Chap 1 Fig 2 Everett Rogers Diffusion Innovation Model.” Matthews on Marketing. November 15, 2012. https://matthewsonmarketing.com/chap-1-fig-2-everett-rogers-diffusion-innovation-model-2/
Ex-1308	Halton, Clay. “Diffusion of Innovations Theory: Definition and Examples.” Investopedia. May 23, 2025. https://www.investopedia.com/terms/d/diffusion-of-innovations-theory.asp
Ex-1309	Hale, Tom. “The Value of Oura Membership.” The Pulse Blog. May 20, 2022. https://ouraring.com/blog/the-value-of-oura-membership/
Ex-1310	OURA. “Oura Membership.” OURA. July 1, 2025. https://support.ouraring.com/hc/en-us/articles/4409086524819-Oura-Membership
Ex-1311	Neely, Amber. “Oura Ring review: love the feature changes, hate the new subscription.” Apple Insider. March 19, 2023. https://appleinsider.com/articles/23/03/19/oura-ring-review-love-the-features-changes-hate-the-new-subscription
Ex-1312	Oh, Hannah. “I Tested the Oura Ring Gen3 for 10 Months—Here’s My Honest, Unfiltered Review.” Cosmopolitan. July 17, 2024. https://www.cosmopolitan.com/health-fitness/a45931388/oura-ring-3-review/
Ex-1313	Shares, Shervin. “6 Months with the Oura Ring 4. The Truth No One Tells You.” YouTube. March 15, 2025. https://www.youtube.com/watch?v=v6YkMjIltuo

Ex. No.	Description
Ex-1314	PYMNTS Team. "Samsung Enters Smart Ring Market, Expanding Wearable Tech Portfolio." PYMNTS. July 10, 2024. https://www.pymnts.com/news/wearables/2024/samsung-enters-smart-ring-market-expanding-wearable-tech-portfolio/
Ex-1315	Comstock, Jonah. "Ouraring gets $5.3M for sleep-tracking ring." MobiHealth News via Wayback Machine. November 30, 2016. https://web.archive.org/web/20241226062503/http://www.mobihealthnews.com/content/ouraring-gets-53m-sleep-tracking-ring
Ex-1316	Rabinowitz, Harry. "I tested the latest Oura Ring 4 for months — is it worth the upgrade?." NBC News. April 2, 2025. https://www.nbcnews.com/select/shopping/oura-ring-4-review-rcna196889
Ex-1317	Oura Team. "Meet Oura: Your Oura Readiness Score." The Pulse Blog. February 7, 2024. https://ouraring.com/blog/readiness-score/
Ex-1318	OURA. "Oura Ring 4." OURA. July 1, 2025. https://support.ouraring.com/hc/en-us/articles/330450115081 15-Oura-Ring-4
Ex-1319	OURA. "Oura Advisor." OURA. July 1, 2025. https://support.ouraring.com/hc/en-us/articles/39512345699219-Oura-Advisor
Ex-1320	"Oura Ring 4, powered by smart sensing, is here." Yole Group. October 3, 2024. https://www.yolegroup.com/industry-news/oura-ring-4-powered-by-smart-sensing-is-here/
Ex-1321	Kharpal, Arjun. "Smart ring leader Oura plans international push as CEO touts new features and thinking on hardware." CNBC. November 14, 2024. https://www.cnbc.com/2024/11/14/oura-plans-international-expansion-tests-nutrition-and-ai-features.html
Ex-1322	McLEAR. "About Us." McLEAR. July 1, 2025. https://mclear.co/about/

Ex. No.	Description
Ex-1323	NFC RING. "Gallery." NFC RING. July 1, 2025. https://nfcring.com/gallery/
Ex-1324	Mclear, John. "After a year of hard work my Kickstarter is live!." John Mclear. July 20, 2013. https://mclear.co.uk/tag/clothing/
Ex-1325	Bennett, Brian. "Basis Science Basis B1 Band review: 24-7 fitness watch isn't small but motivates well." CNet. June 11, 2013. https://www.cnet.com/reviews/basis-band-review/
Ex-1326	Bhavsar, Sagar Naresh. "Samsung's next wave of wearables could include smart earrings and AI necklaces." Neowin. July 11, 2025. https://www.neowin.net/news/samsungs-next-wave-of-wearables-could-include-smart-earrings-and-ai-necklaces/
Ex-1327	U.S. Patent Publication No. 20120253485
Ex-1328	INTENTIONALLY LEFT BLANK
Ex-1329	David C. Bock et al., Batteries Used to Power Implantable Biomedical Devices, 84 Electrochimica Acta 155 (2012)
Ex-1330	B. Scrosati, Lithium Batteries: From Early Stages to the Future, in Lithium Batteries 13 (B. Scrosati, K.M. Abraham, W. Van Schalkwijk & J. Hassoun eds., 2013)
Ex-1331	U.S. Patent No. 7,968,226
Ex-1332	U.S. Patent No. 6,881,516
Ex-1333	Screenshot from the Internet Archive of Ouraring.com, "The Smart Ring That Helps You Get More Restorative Sleep," available at https://web.archive.org/web/20171205082910/https:/ouraring.com/
Ex-1334	Screenshot from the Internet Archive of Ouraring.com, "What has Changed? The New Oura Ring," available at, available at https://web.archive.org/web/20191206191935/https:/ouraring.com/difference-between-first-and-new-oura-ring/

Ex. No.	Description
Ex-1335	iFixit, Oura Ring 2 Teardown, iFixit (July 9, 2020), https://www.ifixit.com/Teardown/Oura+Ring+2+Teardown/135207
Ex-1336	Screenshots of "What's inside the Oura Ring? (Gen 3 and 2)," available at https://www.youtube.com/watch?v=z7zuWbFNTL8&t=529s
Ex-1337	Declaration of Khanh Leon in Support of Petitioner's Motion for Pro Hac Vice Admission Pursuant to 37 C.F.R. §42.10(c)
Ex-1338	Declaration of Argirenia Zervos in Support of Petitioner's Motion for Pro Hac Vice Admission Pursuant to 37 C.F.R. §42.10(c)
Ex-1339	Petitioner's Demonstratives

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I hereby certify that on September 9, 2025, I caused a true and correct copy of the foregoing PETITIONER'S UPDATED LIST OF EXHIBITS to be served electronically on counsel for Patent Owner at the following addresses:

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