

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

ZHUHAI COSMX BATTERY CO., LTD.,
Petitioner

v.

NINGDE AMPEREX TECHNOLOGY LTD.,
Patent Owner

Case No. IPR2025-00524
U.S. Patent No. 12,015,118

PATENT OWNER'S UPDATED EXHIBIT LIST

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Pursuant to 37 C.F.R. § 42.63(e), Patent Owner Ningde Amperex Technology Ltd. (“ATL”) submits a current listing of exhibits. Patent Owner’s Exhibit 2059 is being filed today.

LIST OF EXHIBITS

Exhibit Number	Description
2001	Second Amended Complaint, <i>Ningde Amperex Tech. Ltd. v. Zhuhai CosMX Battery Co.</i> , Case No. 2:24-cv-00728-JRG, ECF No. 23 (E.D. Tex. Jan. 28, 2025)
2002	Scheduling Order, <i>Ningde Amperex Tech. Ltd. v. Zhuhai CosMX Battery Co.</i> , Case No. 2:24-cv-00728-JRG, ECF No. 27 (E.D. Tex. Feb. 6, 2025)
2003	CosMX Invalidity Contentions Cover Pleading, <i>Ningde Amperex Tech. Ltd. v. Zhuhai CosMX Battery Co.</i> , Case No. 2:24-cv-00728-JRG (E.D. Tex. Jan. 7, 2025)
2004	Summons to attend oral proceedings in German Case No. 3 Ni 12/23 (EP) (“Germany Order 1”)
2005	Summons to attend oral proceedings in German Case No. 3 Ni 12/24 (EP) (“Germany Order 2”)
2006	Docket Navigator Time-to-Trial Statistics for Judge Rodney Gilstrap (accessed July 2, 2025)
2007	Docket, <i>Ningde Amperex Tech. Ltd. v. Zhuhai CosMX Battery Co.</i> , Case No. 2:22-cv-00232 (E.D. Tex.)
2008	Joint Motion for Entry of Protective Order, <i>Ningde Amperex Tech. Ltd. v. Zhuhai CosMX Battery Co.</i> , No. 2:24-cv-00728-JRG, ECF No. 30 (E.D. Tex. Feb. 11, 2025)
2009	Amended Final Judgment, <i>Ningde Amperex Tech. Ltd. v. Zhuhai CosMX Battery Co.</i> , Case No. 2:22-cv-00232, ECF No. 427 (E.D. Tex.)
2010	Article, <i>Lithium battery manufacturer ATL won injunction against its Chinese rival COSMX in German Court</i> , China IP Today (April 6, 2024)
2011	Reserved
2012	Reserved

Exhibit Number	Description
2013	Darts IP Reports: CN109301326, CN104466097, CN206490141, CN108352492 (May 6, 2025)
2014	IDS Filings for U.S. Patent Application No. 17/119,194
2015	Declaration of Dean R. Wheeler, Ph.D.
2016	<i>Curriculum Vitae</i> of Dean R. Wheeler, Ph.D.
2017	V. Srinivasan and J. Newman, <i>Design and Optimization of a Natural Graphite/Iron Phosphate Lithium-Ion Cell</i> , 151 J. Electrochem. Soc. A1530 (2004)
2018	<i>Laser diffraction for particle sizing – Anton Paar</i> , available at: https://wiki.anton-paar.com/en/laser-diffraction-for-particle-sizing (accessed on 30 July 2025)
2019	<i>Understanding the Mechanical and Electrochemical Impacts of Binder Systems on Silicon Anodes in Lithium-Ion Batteries – BYU Scholar Archives</i> , available at: https://scholarsarchive.byu.edu/etd/10449 (accessed on 30 July 2025)
2020	Westphal, Bockholt, Günther, Haselrieder, and Kwade, <i>Influence of Convective Drying Parameters on Electrode Performance and Physical Electrode Properties</i> , ECS Transactions, 64 (22) 57-68 (2015)
2021	Liu, Chen, Liu, Chu, and Tiu, <i>Improvement of Lithium-Ion Battery Performance by Two-Layered Slot–Die Coating Operation</i> , Energy Technology 2017, 5, 1235–1241
2022	Reserved
2023	Reserved
2024	Reserved
2025	<i>2016 Batteries Conference GRC</i> , available at: https://www.grc.org/batteries-conference/2016/ (accessed on 12 May 2025).
2026	<i>Hubs – Department of Energy</i> , available at: https://www.energy.gov/hubs (accessed on 12 May 2025)
2027	<i>DOE Energy Innovation Hubs</i> , available at: https://science.osti.gov/bes/Research/DOE-Energy-Innovation-Hubs (accessed on 12 May 2025)
2028	Amir-Sina Hamedi, Fezzeh Pouraghajan, Fei Sun, Mojdeh Nikpour, & Dean R. Wheeler, <i>Interplay of Electrode</i>

Exhibit Number	Description
	<i>Heterogeneity and Lithium Plating</i> , 169 J. Electrochem. Soc. 020551 (2022)
2029	Amir-Sina Hamed, Adrian Yao, Roxana Martin, Raymundo Roig, Michael Rivas Valadez, Donald Pile, Annadanesh Shellikeri, Baichuan Liu, and Dean R. Wheeler, <i>Multi-layer anodes for high-current applications</i> , 439 Electrochimica Acta 141649 (2023)
2030	Fezzeh Pouraghajan, Andrea I. Thompson, Emilee E. Hunter, Brian Mazzeo, Jake Christensen, Ram Subbaraman, Michael Wray, & Dean Wheeler, <i>The Effects of Cycling on Ionic and Electronic Conductivities of Li-ion Battery Electrodes</i> , 492 J. of Power Sources 229636 (2021)
2031	Amir-Sina Hamed, Edmund M. Shumway, & Dean R. Wheeler, <i>Electrode-Level Modeling of Silicon Anodes for Improved Cell Design</i> , 171 J. Electrochem. Soc. 120539 (2024)
2032	Reserved
2033	Reserved
2034	<i>Lithium-ion Battery Design: Effects of Optimal Compaction Density</i> , https://www.neware.net/news/lithium-ion-battery-design-effects-of-optimal-compaction-density/230/83.html (last visited on May 23, 2025)
2035	Shu Lu, et al., <i>Binder-Free LiCoO₂/Carbon Nanotube Cathodes for High-Performance Lithium Ion Batteries</i> , 24 Adv. Mater. 2294(2012)
2036	Lei-Lei Lu, et al., <i>Wood-Inspired High-Performance Ultrathick Bulk Battery Electrodes</i> , Adv. Mater. 1706745 (2018)
2037	Yasuhiko Takahashi, et al., <i>Structure and electron density analysis of electrochemically and chemically delithiated LiCoO₂ single crystals</i> , 180 J. Solid State Chem. 313 (2007) , https://doi.org/10.1016/j.jssc.2006.10.018
2038	<i>Carbon Black</i> , https://pubchem.ncbi.nlm.nih.gov/compound/carbon%20black , (last visited on May 23, 2025)
2039	Sankar Mandal, et al., <i>The Role of Carbon Black in LiMn₂O₄-Based Composites as Cathodes for Rechargeable Lithium Batteries</i> . 148 J. Electrochem. Soc. A24 (2001)
2040	Chris Meyer, et al., <i>Characterization of the Calendering Process for Compaction of Electrodes for Lithium-Ion Batteries</i> , 249 J.

Exhibit Number	Description
	Materials Processing Tech. 172 (2017), https://doi.org/10.1016/j.jmatprotec.2017.05.031 .
2041	CosMX Amended Exhibit 118-19, “Invalidity of U.S. Patent No. 12,015,118 over ATL 265066 Cell/Electrode in view of Japan Patent Application Publication No. JP 2013-21109,” <i>Ningde Amperex Tech. Ltd. v. Zhuhai CosMX Battery Co., Case No. 2:24-cv-00728-JRG, ECF No. 64-1 (E.D. Tex. July 31, 2025)</i>
2042	U.S. Patent Pub. No. 2021/0214234 (“Lee”)
2043	U.S. Patent Pub. No. 2022/0403062 (“Cha”)
2044	Declaration of Brady Cox
2045	Zhuhai CosMX Battery Co., Ltd.’s Responsive Claim Construction Brief, <i>Ningde Amperex Tech. Ltd. v. Zhuhai CosMX Battery Co., Case No. 2:24-cv-00728-JRG, ECF No. 64-1 (E.D. Tex. December 16, 2025)</i>
2046	U.S. Patent Publication No. US 2021/0214234 A1 to Lee et al.
2047	U.S. Patent Publication No. 2022/0403062 A1 to Cha et al.
2048	Yang, S., et al. High Tap Density Spherical Li[Ni _{0.5} Mn _{0.3} Co _{0.2}]O ₂ Cathode Material Synthesized via Continuous Hydroxide Coprecipitation Method for Advanced Lithium-Ion Batteries. <i>Int. J. Electrochem.</i> , 9 (2012)
2049	Zhang J, Huang H, Sun J. <i>Investigation on mechanical and microstructural evolution of lithium-ion battery electrode during the calendering process</i> . Powder Technology, 2022, 409: 117828.
2050	Deposition Transcript of Samuel Gido, Ph.D., dated January 12, 2026
2051	Product data sheet for the Microtrac Particle Size Analyzer S3500
2052	U.S. Patent Publication No. US 2016/0326003 A1 to Ishizuka
2053	User’s Manual dated September 2019 for the Beckman Coulter LS 13 320 Laser Diffraction Particle Size Analyzer
2054	User’s Manual dated October 2011 for the Beckman Coulter LS 13 320 Laser Diffraction Particle Size Analyzer
2055	U.S. Patent Publication No. US 2024/0291110 A1 to Lee et al.
2056	M Nikpour, B Liu, P Minson, Z Hillman, BA Mazzeo, DR Wheeler, “Li-ion Electrode Microstructure Evolution during

Exhibit Number	Description
	Drying and Calendering,” Batteries 8 (9), 107. https://www.mdpi.com/1807812
2057	H. Zheng, J. Li, X. Song, G. Liu, V. S. Battaglia, “A comprehensive understanding of electrode thickness effects on the electrochemical performances of Li-ion battery cathodes,” <i>Electrochimica Acta</i> 71 (2012) 258– 265. http://dx.doi.org/10.1016/j.electacta.2012.03.161
2058	Supplemental Declaration of Dean R. Wheeler, Ph.D.
2059	Claim Construction Order, <i>Ningde Amperex Tech. Ltd. v. Zhuhai CosMX Battery Co.</i> , Case No. 2:24-cv-00728-JRG, ECF No. 171 (E.D. Tex. Feb. 17, 2026)

Dated: February 26, 2026

Respectfully submitted,

By: /Christopher TL Douglas/

Christopher TL Douglas

Reg. No. 56,950

CERTIFICATE OF SERVICE

Pursuant to 37 C.F.R. §42.6(e), the undersigned hereby certifies that true and correct copies of the foregoing **PATENT OWNER'S EXHIBIT LIST and NINGDE AMPEREX TECH. EXHIBIT 2059** were served in their entirety on February 26, 2026 , via filing through the Patent Trial and Appeal Case Tracking System (P-TACTS), as well as by a delivering copy via electronic mail to the following:

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