Nano One Adds 4 More Lithium Battery Manufacturing Patents in Asia – Boosts Total to 40

written by Raj Shah | February 21, 2024

February 21, 2024 (Source) – **(TSX:NANO)(OTC PINK:NNOMF)(Frankfurt:LBMB)**

Highlights:

- Four new patents in Asia expand portfolio to 40 patents with 55+ pending.
  - Japan: Formation of lithium metal oxide cathodes from elemental metal.
  - Taiwan: Battery enhancement using simplified electrolyte & One-Pot cathode.
  - China & Korea: Simultaneous formation of coating and cathode in single step.

- Showcases depth and global relevance of Nano One's innovative One-Pot Process.
- Adds to shareholder value and technology offering.
- Enhancing leadership position while safeguarding commercial advantages.

Nano One® Materials Corp. ("Nano One or the "Company") is a clean technology company with a patented process for the production of lithium-ion battery cathode active materials (CAM) that enable secure and resilient supply chains by driving down cost, complexity, energy use and environmental footprint. Nano One is pleased to report on the continued expansion of its

intellectual property portfolio with four notices of allowance in Asia.

“These four new patents will extend our portfolio to forty,” said Dr. Stephen Campbell, CTO, *“adding value not only for our shareholders but also for our trusted partners, stakeholders and future licensees. Continuous innovation is critical to our strategy and these latest patent issuances showcase the quality and breadth of our technology offering, specifically in Asia where we are nurturing many strategic interests. The additional patent protections cover the One-Pot process, single crystal coating, M2CAM® Metal to Cathode technology, and high voltage battery electrolyte. We also have another fifty-five plus patents pending, with more to come, in important jurisdictions that include Canada, United States, China, Korea, Taiwan Japan and Europe.”*

Japanese application JP 2022-565612 has been allowed, and is specific to the formation of lithium metal oxide cathodes from elemental metal using the Nano One proprietary process. The ability to utilize elemental metals directly in the production of cathode materials reduces cost, complexity and GHG emissions in the supply chain, while eliminating wastewater, large volumes of harmful sulfate by-products, and the need for intermediate processing in foreign jurisdictions of concern.

Recently allowed TW 110137964 is specific to battery enhancements in Taiwan which are made available by the cathode formed from the proprietary One-Pot process. Owing to enhanced physical properties of Nano One’s cathode, the electrolyte used in a battery can be simplified and requires fewer additives. This is expected to further extend the battery lifetime.

Chinese patent CN 2019800266858, which will be issued in March, and recently allowed South Korean Patent KR 10-2020-7030886,

extend the established patent estate related to the One-Pot process and specifically the ability to form a cathode material, with protective coating thereon, directly in a single processing step. The technology is particularly important for manganese-rich, high energy spinels. This family of patents is currently active in the United States, Canada and Japan.

Patents, trade secret, flowsheets, knowhow, plant design and people are at the core of what Nano One's partners, shareholders and prospective customers value most. Not only are these intellectual property assets critical to the company's leadership position, but they have also enabled it to pilot LFP well ahead of others and demonstrate at scales that are relevant to the automotive industry. When bundled with detailed engineering plans, innovative supply chains, and performance targets, Nano One believes its technology could be widely licensed for a new generation of sustainable and cost-effective cathode production that is cleaner, more easily permitted and securely established in North America, Europe and the Indo-Pacific region.

Dan Blondal, CEO and Founder added *"Innovation is an imperative for the Energy Transition and for a just, secure and equitable future. It will not be good enough to simply copy and paste what has worked up until now – Nano One is committed to changing how the world makes cathode materials because we need solutions that eliminate the wastefulness and inefficiencies that are impeding the path to net zero. It is this dedication to the challenge, that drives innovation, fuels our piloting and galvanizes our people with partners, shareholders, and government stakeholders to execute on our plans and fulfill our ambitions."*

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About Nano One®

Nano One Materials Corp. (Nano One) is a clean technology company with a patented, scalable and low carbon intensity industrial process for the low-cost production of high-performance lithium-ion battery cathode materials. With strategic collaborations and partnerships, including automotive OEMs and strategic industry supply chain companies like Sumitomo Metal Mining, BASF, Umicore and Rio Tinto. Nano One's technology is applicable to electric vehicles, energy storage, and consumer electronics, reducing costs and carbon intensity while improving environmental impact. The Company aims to pilot and demonstrate its technology as turn-key production solutions for license, joint venture, and independent production opportunities, leveraging Canadian talent and critical minerals for emerging markets in North America, Europe, and the Indo-Pacific region. Nano One has received funding from SDTC and the Governments of Canada and British Columbia.

For more information, please visit **www.nanoone.ca**

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Cautionary Notes and Forward-looking Statements

Certain information contained herein may constitute "forward-looking information" and "forward-looking statements" within the meaning of applicable securities legislation. All statements, other than statements of historical fact, are forward-looking statements. Forward-looking information in this news release includes but is not limited to: the Company's current and future business and strategies; the intention to grow the business, operations, revenues and potential activities of the Company; funds available, uses of funds, and future capital expenditures

and other expenses for specific operations; industry demand and adoption; sales of LFP and potential offtake commitments; competitive conditions; general economic conditions; the functions and intended benefits of Nano One's technology, patents and products; the development of the Company's technology, patents, supply chains and products; scalability of developed technology; current and future collaboration engineering, and optimization research projects; successful and timely completion of a full scale LFP feasibility study; the successful and timely commencement of a commercialization phase; successful validation of LFP products; prospective partnerships with customers and the anticipated benefits of the Company's partnerships; the purpose for expanding its facilities; the Company's licensing, supply chain, joint venture opportunities and/or potential royalty arrangements; the Company's potential eligibility and benefit from recent regulatory decisions in the United States relating to the Inflation Reduction Act and Foreign Entities of Concern; continued innovation on manufacturing processes, equipment and recycling; launch of first LFP facility and broader "turn-key" productions solutions; business development in energy storage solutions and automotive sectors; successful execution of the Company's milestones; and the acceleration and execution of the Company's plans – which are contingent on support, grants and long-term support from the Company's shareholders. Generally, forward-looking information can be identified by the use of terminology such as 'believe', 'expect', 'anticipate', 'plan', 'intend', 'continue', 'estimate', 'may', 'will', 'should', 'ongoing', 'target', 'goal', 'potential' or variations of such words and phrases or statements that certain actions, events or results "will" occur. Forward-looking statements are based on the current opinions and estimates of management as of the date such statements are made are not, and cannot be, a guarantee of future results or events. Forward-looking statements are subject to known and unknown

risks, uncertainties and other factors that may cause the actual results, level of activity, performance or achievements of the Company to be materially different from those expressed or implied by such forward-looking statements or forward-looking information, including but not limited to: general and global economic and regulatory changes; next steps and timely execution of the Company's business plans; the development of technology, supply chains, and plans for construction, scale-up and operation of cathode production facilities; incurrence of costs; successful current or future collaborations that may happen with OEM's, miners or others; the Company's potential eligibility and benefit from recent regulatory decisions in the United States relating to the Inflation Reduction Act and Foreign Entities of Concern; continued innovation on manufacturing processes, equipment and recycling; launch of first LFP facility and broader "turn-key" productions solutions; business development in energy storage solutions and automotive sectors; successful execution of the Company's milestones; the execution of the Company's plans which are contingent on support and grants; the Company's ability to achieve its stated goals; the commercialization of the Company's technology and patents vialicense, joint venture and independent production; anticipated global demand, adoption and projected growth for LFP batteries; and other risk factors as identified in Nano One's MD&A and its Annual Information Form dated March 29, 2023, both for the year ended December 31, 2022, and in recent securities filings for the Company which are available at www.sedar.com. Although management of the Company has attempted to identify important factors that could cause actual results to differ materially from those contained in forward-looking statements or forward-looking information, there may be other factors that cause results not to be as anticipated, estimated or intended. There can be no assurance that such statements will prove to be accurate, as actual results and future events could differ

materially from those anticipated in such statements. Accordingly, readers should not place undue reliance on forward-looking statements and forward-looking information. The Company does not undertake any obligation to update any forward-looking statements or forward-looking information that is incorporated by reference herein, except as required by applicable securities laws. Investors should not place undue reliance on forward-looking statements.

SOURCE: Nano One Materials Corp.