Nano One Secures Its 11th New Patent in 2024

written by Raj Shah | December 18, 2024

December 18, 2024 (Source) – **Nano One® Materials Corp.** ("Nano One" or the "Company"), a cleantech company with a patented process for the low-cost, low-GHG production of lithium-ion battery cathode active materials, is pleased to announce the allowance and/or issuance of 7 new patents to its portfolio, bringing its 2024 total to 11, and its historical total to 48 with more than 56 further patent applications pending, in jurisdictions around the world. These recent patents not only fortify Nano One's intellectual property (IP) portfolio but also add value for its shareholders and enhance the Company's technological edge in a rapidly evolving market.

Dr. Stephen Campbell, Nano One's Chief Technology Officer said *"By safeguarding our innovations, we are positioned to lead advancements in energy efficiency and sustainability, which can translate into considerable commercial opportunities. Having a strong IP portfolio creates substantial shareholder value, showcasing our commitment to innovation and commercialization, while attracting partnerships and boosting investor confidence in our long-term growth prospects."*

Recently Issued and/or Allowed Patents:

- Japanese Patent JP 7503208: Describes a novel battery assembled with high voltage spinel LNMO cathode material made using the One-Pot process and paired with an electrolyte for high durability.
- Indian Patent IN 512878: Describes the novel formation of a cathode material, with protective coating thereon,

directly in a single processing step.

- Japanese Patent JP 7518972 and Taiwan Patent TW 110132742: Describes the M2CAM® technology using the One-Pot sulfate-free process for the novel formation of lithiated mixed metal oxide cathode materials.
- Taiwan Patent TW I849754: Describes a novel kiln design for efficient calcination and thermal processing of CAM.
- United States Patent US 12,077,452: Describes a novel lithiated NMC precursor material prepared in the One-Pot process prior to thermal processing.
- China Patent CN 113875045: Describes an innovative one pot method that forms a novel coating on NMC, nickel-rich NMC and LNMO cathode materials to improve stability and durability when used in a lithium-ion battery.

The benefits of Nano One's patented One-Pot process and M2CAM technology mainly attribute to the elimination of the traditional precursor steps (pCAM) by integrating them with the lithium addition step (CAM), high efficiency thermal processing, and the elimination of sodium sulphate wastewater. This is aimed at reducing complexity, cost, footprint, energy intensity, and greenhouse gas emissions compared to incumbent processes. This has the additional potential benefit of making One-Pot enabled CAM production facilities easier to site, permit, construct, and operate while decoupling from foreign supply chains of concern.

Explore more about Nano One's sustainable One-Pot process and its environmental benefits at: nanoone.ca/technology

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About Nano One®

Nano One® Materials Corp. (Nano One) is a clean technology company changing how the world makes cathode active materials for lithium-ion batteries. Applications include electric

vehicles (EVs), stationary energy storage systems (ESS), and consumer electronics. The Company's patented One-Pot process reduces costs, carbon intensity (lower GHGs), environmental footprint, and reliance on problematic supply chains. Scalability is proven and being demonstrated at Nano One's LFP (lithium-iron-phosphate) pilot production plant in Québec-the only facility and expertise of its kind outside of Asia. Strategic collaborations and partnerships with international companies like Sumitomo Metal Mining, Rio Tinto, and Worley are supporting a global growth strategy via technology licensing and joint ventures. Nano One has received funding from the Government of Canada, the Government of the United States, the Government of Québec, and the Government of British Columbia. The company is leveraging deep industry expertise and plans to license and deploy cleaner cathode manufacturing plant design packages-delivering cost-competitive and faster-to-market battery materials solutions world-wide.

For more information, please visit **nanoOne.ca**

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 the Company's current and future business and strategies; the intention to grow the business, operations, revenues, and potential activities of the Company; 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 and products; the development of the Company's technology, supply chains and products; scalability of developed technology; current and future collaboration engineering, and

optimization research projects; the successful and timely commencement of a commercialization phase; the purpose for expanding its facilities; the Company's licensing, joint venture opportunities and/or potential royalty arrangements; the Company's potential eligibility and benefit from recent global regulatory decisions; continued innovation on manufacturing processes, equipment and recycling; 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: successful conclusion and receipt of the total amount of announced anticipated funding from the Government of Québec and Ministry of Environment; the success in the marketing and deployment of the cathode manufacturing plant design packages; 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; successful current or future collaborations that may happen with OEM's, miners or others; 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 via license, 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 27, 2024, both for the year ended December 31, 2023, and in recent securities filings for the Company which are available at www.sedarplus.ca. 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. Please note that any links provided to third party websites are for informational purposes only. The Company does not endorse or take responsibility for the content, accuracy, or any other aspect of these websites. Additionally, the Company is not liable for any damages or loss arising from the use or access of any third party website linked to from our platform. Viewers should exercise their own discretion and review the terms of use and privacy policies of any third party website before accessing or interacting with their content.

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SOURCE: Nano One Materials Corp