

# Nano One Adds Another Patent in Canada for Lithium Ion Cathode Materials

written by Igor Makarov | March 14, 2019



March 14, 2019 ([Source](#)) – Dr. Stephen Campbell, CTO at Nano One Materials Corp. (TSXV: NNO) (OTC Pink: NNOMF) (FSE: LBMB), is pleased to announce the issuance of Canadian Patent Number 2,905,984. This is Nano One’s third patent in Canada bringing the

total now to twelve patents issued around the globe.

*“This patent is significant to Nano One,” said Dr. Campbell, “because it is related to the formation of lithium ion battery precursors by the novel process developed at Nano One. Precursors are intermediate mixtures of metals such as nickel, cobalt and manganese prepared in advance of high temperature processing in a furnace. Nano One’s approach differs, because its process adds lithium to the precursors in an intimate mixture with the other metals. This avoids the need to grind and mill, it can shorten thermal process times, it can simplify manufacturing and it can enable alternative feedstocks.”*

U.S. Patent Number 10,189,719 was also issued earlier this year and follows an earlier notice of allowance that Nano One announced as its tenth patent on November 13, 2018. It is directed to technology developments in Nano One’s scalable process for preparing lithium ion battery cathode materials, taking the process from pilot towards full scale manufacturing. This innovation is a result of Nano One’s collaboration with NORAM Engineering and Constructors Ltd. and their subsidiary, BC

Research Inc., with the support of the Government of Canada through Sustainable Development Technology Canada (SDTC) and the Automotive Supplier Innovation Program (ASIP).

Nano One continues to extend its patent coverage on a global scale, with patents now issued in Canada, United States, China, Korea, Taiwan and Japan. The patents cover processes, lithium ion battery materials and related battery applications. There are 30+ patents pending worldwide including Europe.

*“Nano One began filing patents 5 years ago and continues to innovate,”* explained Dr. Joseph Guy, patent agent and Nano One board member. *“Those efforts are turning into a world-class patent estate which positions Nano One favorably as it engages with global leaders in lithium ion batteries and materials.”*

## **Nano One Materials Corp.**

### **Dan Blondal, CEO**

### **About Nano One**

Nano One Materials Corp (“Nano One” or “the Company”) has developed patented technology for the low-cost production of high performance lithium ion battery cathode materials used in electric vehicles, energy storage and consumer electronics. The processing technology addresses fundamental supply chain constraints by enabling wider raw materials specifications for use in lithium ion batteries. The process can be configured for the full range of cathode materials and has the flexibility to shift with emerging and future battery market trends.

Nano One has built a pilot plant to demonstrate high volume production and to optimize its technology across a range of materials. The pilot plant is being funded with the assistance and support of the Government of Canada through Sustainable

Development Technology Canada (SDTC) and the Automotive Supplier Innovation Program (ASIP) a program of Innovation, Science and Economic Development Canada (ISED). Nano One also receives financial support from the National Research Council of Canada Industrial Research Assistance Program (NRC-IRAP). Nano One's mission is to establish its patented technology as a leading platform for the global production of a new generation of battery materials. [www.nanoone.ca](http://www.nanoone.ca)

## **About NORAM and BC Research**

NORAM Engineering and Constructors Ltd. and their subsidiary, BC Research Inc., supply proprietary engineering and equipment packages to the chemical, pulp and paper, minerals processing and electrochemical sectors. They are recognized worldwide as a leader in the fields of nitration, sulfuric acid and electrochemistry. In addition to carrying out large assignments for major multi-national clients, NORAM and BC Research work with early-stage technology companies. They provide engineering design and fabrication support, sharing their experience in technology commercialization, and growing with companies as a strategic partner.

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