

**UNITED STATES PATENT AND TRADEMARK OFFICE  
GENERAL POWER OF ATTORNEY  
AND  
APPOINTMENT OF DOMESTIC REPRESENTATIVE**

The undersigned Applicant hereby appoints with full powers of substitution and revocation:

Michael A. Albert	Gerald B. Hrycyszyn	Eric J. Rutt
Nicole Davis Amar	Jeffrey D. Hsi	Robert N. Sahr
Eric L. Amundsen	Elizabeth A. Hudson	Anant K. Saraswat
Michael J. Attisha	Elisabeth H. Hunt	Turhan F. Sarwar
C. Hunter Baker	Robert E. Hunt	Claire E. Schuster
Jason W. Balich	Daniel M. Huttle	Karan Singh
Melissa Beede	Robert A. Jensen	Amanda Slade
Cristin Berkey	Marc S. Johannes	Laura B. Sole
Brandon S. Blackwell	Oona M. Johnstone	Nathan R. Speed
Joshua M. Brandt	Hunter D. Keeton	Charles Steenburg
David F. Cauble	Jessamine M. Lee	Stephanie G. Stella
Tani Chen	Sardiaa S. Leney	John L. Strand
Thomas S. Chlebeck	Christina M. Licursi	Andrew J. Tibbetts
Bryan S. Conley	Helen C. Lockhart	Maria A. Trevisan
Gregory F. Corbett	Chelsea Loughran	Michael J. Twomey
Elizabeth A. DiMarco	Ethan W. Marks	John R. Van Amsterdam
Heather J. DiPietrantonio	William R. McClellan	Ryan M. Van Olst
Stuart V. Duncan Smith	Gabriel J. McCool	Janice A. Vatland
Roque El-Hayek	Marie A. McKiernan	Jessica A. vonReyn
Neil P. Ferraro	Andrea D. Merin	Robert H. Walat
Emma L. Frank	Kevin Mosier	Patrick R.H. Waller
Thomas A. Franklin	James H. Morris	Edmund J. Walsh
Emily J. Gardel	Elizabeth S. Mulski	Jennifer J. Wang
Edward R. Gates	Michelle K. Nyein	Daniel T. Wehner
David S. Gesner	Timothy J. Oyer	John L. Welch
Richard F. Giunta	Zachary P. Piccolomini	Andrew W. Williams
Matthew H. Grady	Michael J. Pomianek	Douglas R. Wolf
Patricia Granahan	Randy J. Pritzker	Daniel W. Young

Michael A. Greene  
Eric P. Greenwald  
James M. Hanifin, Jr.  
John S. Harmon  
Jason M. Honeyman

Michael N. Rader  
Jonathan B. Roses  
Daniel G. Rudoy  
Edward J. Russavage

Lock See Yu-Jahnes  
William Wei Zhang  
Chelsea E. Witte-Garcia  
Adam S. Zeiger

of Wolf, Greenfield & Sacks, P.C., 600 Atlantic Avenue, Boston, Massachusetts 02210-2206, United States of America, Telephone Number (617) 646-8000, and Telecopier Number (617) 646-8646, as its attorneys and attorneys that herein after become employed by the firm, to act on the undersigned's behalf before the United States Patent and Trademark Office on all matters and business transacted therein including applications, registrations, petitions, oppositions, cancellations, payments and requests in the name of the undersigned. Direct all correspondence to Douglas R. Wolf at the above address and phone number.

Northern Innovations Holding Corp.  
381 North Service Road West  
Oakville, ON Canada L6M 0H4

Date: Sept. 5, 2019

  
\_\_\_\_\_  
Jo-Ann Heikkila  
Associate Director, Trade-Mark &  
Corporate Affairs