“ROLL COATING” Family

1. **AU 2011235902** “Roll Coater”  
   Australian Patent issued on Feb. 19, 2015; Priority Apr. 02, 2010. Pending divisional application

2. **CA 2794519** “Roll Coater”  
   Canadian Patent issued on Sep. 16, 2014; Priority Apr. 02, 2010

3. **ZL 201180016577.6** “Roll Coater”  
   Chinese Patent issued on November 25, 2015; Priority Apr. 02, 2010

4. **CZ/EP 2552599** “Roll Coater”  
   Czech Registration of European Case on May. 23, 2014; Priority Apr. 02, 2010

5. **DE 60 2011 007 213.7** “Roll Coater”  
   German Registration of European Case on May. 23, 2014; Priority Apr. 02, 2010

6. **JP 5416862** “Roll Coater”  
   Japanese Patent issued on Nov. 22, 2013; Priority Apr. 02, 2010

7. **JP 5756160** “Roll Coater”  

8. **HK 1181347** “Roll Coater”  
   Honk Kong Registration of European Case on Oct. 10, 2014; Priority Apr. 02, 2010

9. **RU 2527092** “Coat Applicator Appliance”  
   Russian Patent issued on July 7, 2014; Priority Apr. 02, 2010

10. **TW 1425986** “Roll Coater”  
    Taiwanese Patent issued on Feb. 11, 2014; Priority Apr. 02, 2010

11. **TW 1532526** “Method of forming a film on a substrate using a roll coater”  
    Taiwanese Patent issued on May 11, 2016; Priority Apr. 02, 2010

12. **US 8506709** “Roll coater having a recirculation loop for treating excess fluid”  
    US Patent issued on Aug. 13, 2013; Priority Apr. 02, 2010

13. **US 9120122** “Roll Coating Sol-Gel Precursors”  
    US Patent issued on Sep. 1, 2015; Priority Apr. 02, 2010. Pending divisional application

Also one pending Chinese application

“Solution Derived Nanocomposite Precursor Solutions” Family

1. **JP 5990541** “Solution Derived Nanocomposite Precursor Solutions, Methods For Making Thin Films And Thin Films Made By Such Methods”  
2. **RU 2590434** “Solution Derived Nanocomposite Precursor Solutions, Methods For Making Thin Films And Thin Films Made By Such Methods”

Also one allowed case in Taiwan, and Pending cases in US, Australia, Canada, China, Europe, Hong Kong, and Korea

**“COMPLEX OBJECT COATING” Family**

1. **AU 2012258531** “System and Process for Coating an Object”
   Australian Patent issued on Oct. 29, 2015; Priority May 26, 2011

2. **CA 2,834,897** “System and Process for Coating an Object”
   Canadian Patent issued on Aug. 16, 2016; Priority May 26, 2011

3. **ZL 201280025418.7** “System and Process for Coating an Object”
   Chinese Patent issued on July 6, 2016; Priority May 26, 2011

4. **JP 5814464** “System and Process for Coating an Object”

5. **JP 5872102** “System and Process for Coating an Object”


   Korean Patent issued on May 31, 2016; Priority May 26, 2011

9. **RU 2572999** “System and Process for Coating an Object”
   Russian Patent issued on December 16, 2015; Priority May 26, 2011. Pending divisional application

10. **TW I532535** “Method And Apparatus For Coating A Complex Object And Composite Compromising The Coated Object”
    Taiwanese Patent issued on May 11, 2016; Priority May 26, 2011

11. **TW I531419** “Coating Apparatus”
    Taiwanese Patent issued on May 1, 2016; Priority May 26, 2011

12. **US 8507035** “Method and Apparatus for Coating a Complex Object and Composite Comprising the Coated Object”

13. **US 9044775** “System and Process for Coating an Object”
    US Patent issued on Jun. 02, 2015; Priority May 26, 2011


Pending applications in Hong Kong and Russia
“ANTI-ICING” Family

1. US 9206506 “Anti-Icing Coating for Power Transmission Lines”
   US Patent issued on Dec. 08, 2015; Priority March 26, 2013. Pending divisional application

2. CA 2911718 “Anti-Icing Coating for Power Transmission Lines”
   Canadian Patent issued on May 24, 2016; Priority March 26, 2013

   Korean Patent issued on August 5, 2016; Priority March 26, 2013

Also pending applications in China, Europe, Eurasia and Russia

“Modified Hybrid Sol-Gel Compositions” Family

Pending US application.

“ROTATION-VIBRATION” Family

4. US 8889222 “Coating material distribution using simultaneous rotation and vibration”
   US Patent issued on Nov. 18, 2014; Priority Dec. 03, 2013

5. US 9272306 “Coating material distribution using simultaneous rotation and vibration”
   US Patent issued on March 1, 2016; Priority Dec. 03, 2013

Allowed in Canada; Also pending applications in China, Japan, Korea, and Russia

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- Madrid Protocol. Allowed in US and pending in China, European Union, India, Japan, Mexico, Korea, and Russia

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