

## Current Patents Available for Licensing

### Energy and Power Generation

Patent Number	Case Number	Patent Expires	Title
5,092,293	LEW-15085-1	11/09/2010	High Temperature, Flexible Fiber-Seals
5,866,518	LEW-16183-1	01/16/2017	PS300 – Self Lubricating Readily Polished High Temperature Composite
6,039,325	LEW-16231-2	10/17/2016	Resilient Braided Rope Seal
6,064,156	LEW-16056-1	09/14/2018	Design and Manufacturing Processes For Long-Life Hollow Cathode Assemblies
6,240,932	LEW-16056-2	09/14/2018	Processes for Cleaning a Cathode Tube and Subassemblies in a Hollow Cathode Assembly Design And Manufacture of Long Life Hollow Cathode Assemblies
6,380,685	LEW-16056-3	09/14/2018	Procedure for Making a Hollow Cathode Assembly
6,539,818	LEW-16056-4	09/14/2018	Design and Manufacture of Long-Life Hollow Cathode Assemblies
6,676,288	LEW-16056-5	09/14/2018	Design and Manufacturing Processes Of Long-Life Hollow Cathode Assemblies
6,729,174	LEW-16056-6	09/14/2018	Design and Manufacturing Processes Of Long-Life Hollow Cathode Assemblies
6,829,920	LEW-16056-7	09/14/2018	Design and Manufacturing Processes Of Long-Life Hollow Cathode Assemblies
6,071,595	LEW-15898-2	10/26/2014	Substrate with Low Secondary Emissions
6,093,454	LEW-16390-2	10/29/2017	Controlled Thermal Expansion Coat For Thermal Barrier Coatings
6,103,864	LEW-16691-1	01/14/2019	PMR Extended Shelf Life Technology – A Chemical Process to Significantly Retard the Premature Aging of PMR Resin Solutions and PMR Prepregs
6,151,897	LEW-16685-1	04/06/2019	Actuator Control Using Shape Memory Alloys, Microsystems and Optically Controlled Switches

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<b>Patent Number</b>	<b>Case Number</b>	<b>Patent Expires</b>	<b>Title</b>
6,367,250	LEW-16685-2	04/06/2019	Actuator Control Using Shape Memory Alloys, Microsystems and Optically Controlled Switches
6,165,874	LEW-16374-2	12/16/2018	Method for Growth of Crystal Surfaces and Growth Heteroepitaxial Single Crystal Films Thereon
6,200,094	LEW-16644-1	06/18/2019	Wave Augmented Diffuser for Centrifugal Compressors
6,262,223	LEW-16968-1	02/01.2020	Development of Processable Polyimides for High Temperature Application with the Use of Triamine Additives
6,265,112	LEW-15817-1	07/24/2018	Nickel Fiber Electrode for Nickel Based Battery System
6,274,699	LEW-17012-1	03/23/2020	Cyclohexene Endcaps for Polymers With Improved Thermal Oxidative Stability
6,316,078	LEW-16803-1	03/14/2020	Segmented Thermal Barrier coating
6,393,831	LEW-16790-1	11/17/2020	Exoskeletal Engine
6,446,979	LEW-16684-1	06/27/2020	Thermal Barrier Braided Rope Seal
6,696,774	LEW-16988-1	06/01/2021	Magnetohydrodynamic Power Extraction and Flow Conditioning In a Gas Turbine Inlet
6,702,300	LEW-17112-1	01/11/2022	Seal for Large Structural Movements
6,727,618	LEW-17316-1	06/10/2022	Morrison Hybrid Rotor for a Bearingless Switched Reluctance Motor
6,881,820	LEW-17299-1	05/13/2022	Polyimide Rod-Coil Block Copolymers as Membrane Materials For Ion Conduction
6,855,433	LEW-17299-2	06/16/2024	Mechanically Resilient Polymeric Films Doped with a Lithium Compound
6,978,611	LEW-17391-1	10/23/2023	MEMS Closed Chamber Heat Engine and Electric Generator
7,074,006	LEW-17176-1	10/08/2022	Endwall Treatment and Method for Gas Turbines
7,094,499	LEW-17309-1	06/10/2023	Carbon Materials Metal/Metal Oxide Nanoparticle Composite and Battery Anode Composed of the Same

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6,811,154	LEW-17129-1	02/09/2023	Improved Non-Contacting Finger Seal
6,967,462	LEW-17383-1	06/05/2023	Wireless Consumer Power (Beamed Power)
7,148,417	LEW-17396-1	03/31/2023	GaP/Silicon Tandem Solar Cell with Extended Temperature Range
7,191,013	LEW-17483-1	11/08/2024	Hand Held Device for Wireless Powering and Interrogation of BioMEMS Sensors and Actuators
7,326,027	LEW-17517-1	05/25/2024	Flow-Field Control-Rods to Stabilize Flow in a Centrifugal Compressor
7,259,692	LEW-17520-1	09/01/2024	Hybrid Power Management (HPM) Upgrade
7,261,783	LEW-17672-1	09/22/2024	Low Density High Creep Resistant Single Crystal Superalloy for Turbine Airfoils