

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT7698836

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SAVANNAH RIVER NUCLEAR SOLUTIONS, LLC	10/14/2022

RECEIVING PARTY DATA

Name:	BATTELLE SAVANNAH RIVER ALLIANCE, LLC
Street Address:	SAVANNAH RIVER SITE
Internal Address:	BLDG. 773-51A, RM. 139
City:	AIKEN
State/Country:	SOUTH CAROLINA
Postal Code:	29808

PROPERTY NUMBERS Total: 12

Property Type	Number
Patent Number:	7494640
Patent Number:	8377555
Patent Number:	8895146
Patent Number:	8133740
Patent Number:	8883109
Application Number:	61351150
Patent Number:	8616404
Application Number:	16004990
Application Number:	62989004
Application Number:	63169430
Application Number:	63158060
Application Number:	17654006

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: BSRA-307-M

NAME OF SUBMITTER: JASON A. JENNINGS

SIGNATURE: /Jason A. Jennings, Reg. No. 64,391/

DATE SIGNED: 12/16/2022

Total Attachments: 13

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ASSIGNMENT OF WORLDWIDE RIGHTS

WHEREAS, SAVANNAH RIVER NUCLEAR SOLUTIONS, LLC, having a business address of Bldg. 703-47-A, Room 116, Aiken, South Carolina 29808, as Assignor, is the current assignee of record of the entire right, title, and interest in and to the patents and patent applications (collectively the "Patent Assets") listed in the attached Appendix: Patents & Applications (hereinafter "Appendix"); and

WHEREAS, BATTELLE SAVANNAH RIVER ALLIANCE, LLC, having a business address of Bldg. 773-51A, Room 139, Aiken, South Carolina 29808, as Assignee, is desirous of securing the entire right, title, and interest in and to the Patent Assets listed in the Appendix;

NOW, THEREFORE, be it known that for good and valuable consideration, the receipt and sufficiency of which from Assignee is hereby acknowledged, Assignor has conveyed, assigned, transferred, and set over, and does hereby convey, assign, transfer, and set over unto the Assignee and its lawful successors and assigns, the entire right, title, and interest in and to the Patent Assets lists in the attached Appendix, including all patents and patent applications deriving therefrom (including all divisionals, reissues, continuations, continuations-in-part, and extensions thereof), and all rights to claim priority on the basis of such Patent Assets, and all applications for Letters Patent which may hereafter be filed for any inventions described in the Patent Assets in any foreign country and all Letters Patent which may be granted on such inventions in any foreign country, and Assignor hereby authorizes and requests the Commissioner for Patents of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for the Patent Assets listed in the Appendix to Assignee, its successors and assigns, in accordance with the Terms of this Agreement;

AND, ASSIGNOR HEREBY covenants that it has the full right to convey the interest assigned by this Assignment, and it has not executed, and unless directed by the United States Government, will not execute any agreement in conflict with this Assignment;

AND, ASSIGNOR HEREBY authorizes the Commissioner for Patents, the Commissioner for Trademarks, and any other governmental officials to record and register this Assignment upon request by the Assignee. Assignor shall take such steps and actions following the date hereof, including the execution of any documents, files, registrations, or other similar

items, to ensure the assigned Patent Assets are properly assigned to Assignee, or any assignee or successor thereto;

AND, ASSIGNOR HEREBY further covenants and agrees that it will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to Assignor respecting the Patent Assets listed in the Appendix, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title of the Patent Assets listed in the Appendix in said Assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for the Patent Assets listed in the Appendix in the United States and any foreign country.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, Assignee and Assignor have executed this document on the date indicated below.

APPROVED BY:

SAVANNAH RIVER NUCLEAR SOLUTIONS, LLC
(ASSIGNOR)

MATTHEW
ENNIS (Affiliate)

Digitally signed by
MATTHEW ENNIS (Affiliate)
Date: 2022.10.18 15:59:56
-04'00'

For

Date

Andrea Reagan
Acting Senior Vice President and General Counsel

AGREED TO AND ACCEPTED BY:

BATTELLE SAVANNAH RIVER ALLIANCE, LLC
(ASSIGNEE)

10/14/22

Date



Ryan Petersen
General Counsel

Appendix:
Applications, Patents & Trademarks
(SRNS Files Transferred to BSRA)

D&M Ref. No.	SRS Ref. No.	Application No.	Patent No.	Title	DOE No.
WSR-27	98-053	09/734504	6534754	Microwave Off-Gas Treatment Apparatus and Process	S-91022
SRNS-178	02-018	10/287409	6955075	Portable Liquid Collection Electrostatic Precipitator	S-93637
SRNS-179	02-019	10/712491	7473546	Surfactant Biocatalyst for Remediation of Recalcitrant Organics and Heavy Metals	S-93638
SRNS-179-DIV	02-019 Div. 1	11/810731	7915027	Surfactant Biocatalyst for Remediation of Recalcitrant Organics and Heavy Metals	S-106490
SRNS-179-DIV2	02-019 Div. 2	11/810773	7906315	Surfactant Biocatalyst for Remediation of Recalcitrant Organics and Heavy Metals	S-106491
SRNS-179-DIV3	02-019 Div. 3	11/810918	7935516	Surfactant Biocatalyst for Remediation of Recalcitrant Organics and Heavy Metals	S-106492
SRNS-218-CA	02-019	2596386	2596386	Surfactant Biocatalyst for Remediation of Recalcitrant Organics and Heavy Metals	S-93638 S-106490 S-106491 S-106492
SRNS-180	04-003	11/130043	8844748	Clamshell Closure for Metal Drum	S-102734
N/A	04-014	11/169859	7494640	Hydrogen peroxide modified sodium titanates with improved sorption capabilities	S-102746
SRNS-181	04-017	11/639105	8771750	Delivery or Removal of Metals from Biological Systems	S-102750
SRNS-182	04-035	11/245843	7926666	Rotary Filtration System	S-102768
SRNS-183	04-036	11/891125	8470156	Electrochemical Process and Production of Novel Complex Hydrides	S-102769
SRNS-183-CIP	10-045 04-036 CIP	13/136864	9850585	Enhancing Electrochemical Methods for Producing and Regenerating Alane by Using Electrochemical Catalytic Additive	S-113598
SRNS-184-PCT-US	05-095	12/312974	8544297	Apparatus and Process to Enhance the Uniform Formation of Hollow Glass Microspheres	S-106411
SRNS-185-CIP	05-116	11/256442	7666807	Hallow Porous-Wall Glass Microspheres for Hydrogen Storage	S-106432
SRNS-186	06-013 06-014	11/888463	7472747	Biological Enhancement of Hydrocarbon Extraction	S-106447
SRNS-186-CA	06-013 06-014	2695273	2695273	Biological Enhancement of Hydrocarbon Extraction	S-106447

SRNS-187	06-017	12/151559	7615153	Microbial Based Chlorinated Ethene Destruction	S-106451
SRNS-188	06-037	12/218086	7997121	Milliwave Melter Monitoring System	S-106471
SRNS-189	07-021	13/199330	8758715	Porous Wall Hollow Glass Microspheres as a Medium or Substrate for Storage and Formation of Novel Materials	S-113501
SRNS-190	07-026	12/319966	8911630	Process for Treating Waste Water Having Low Concentrations of Metal Contaminants	S-113506
N/A	08-013	12/035908	8377555	Gas Storage Materials, Including Hydrogen Storage Materials	S-113520
N/A	08-013 Div. 1	13/746051	8895146	Gas Storage Materials, Including Hydrogen Storage Materials	S-113710
N/A	08-013	09711838.4	EP 2254828	Gas Storage Materials, Including Hydrogen Storage Materials	S-113520 S-113710
N/A	08-013	2010-547674	JP 5432188	Gas Storage Materials, Including Hydrogen Storage Materials	S-113520 S-113710
N/A	08-013	2009801116498	CN 102007069	Gas Storage Materials, Including Hydrogen Storage Materials	S-113520 S-113710
N/A	08-013	PI-09060014	BR PI09060014	Gas Storage Materials, Including Hydrogen Storage Materials	S-113520 S-113710
N/A	08-013	09711838.4	FR 2254828	Gas Storage Materials, Including Hydrogen Storage Materials	S-113520 S-113710
N/A	08-013	602009052504.2	DE 2254828	Gas Storage Materials, Including Hydrogen Storage Materials	S-113520 S-113710
N/A	08-013	09711838.4	GB 2254828	Gas Storage Materials, Including Hydrogen Storage Materials	S-113520 S-113710
CXUF-585	08-017	12/543856	8133740	Colorimetric Detection of Uranium in Water	S-113524
SRNS-192-PCT-US	09-001	13/260884	8944192	Robotic Platform for Traveling on Vertical Piping Network	S-113526
SRNS-193	09-008	12/806696	8674152	Coal Liquefaction by Base-Catalyzed Hydrolysis with CO ₂ Capture	S-113533
SRNS-217	09-014	12/930486	8709229	Method to Prevent Sulfur Accumulation Inside Membrane Electrode Assembly	S-113539
N/A	09-020	13/349792	8535725	Porous-Wall Hollow Glass Microspheres as Carriers for Biomolecules	S-113545
N/A	09-020	CA2768242	CA2768242	Porous-Wall Hollow Glass Microspheres as Carriers for Biomolecules	S-113545
N/A	09-022	13/382751	8883109	High Capacity Stabilized Complex Hydrides for Hydrogen Storage	S-113547
N/A	09-022	10797917.1	EP 2454189	High Capacity Stabilized Complex Hydrides for Hydrogen Storage	S-113547
N/A	09-022	602010064343.3	DE 2454189	High Capacity Stabilized Complex Hydrides for Hydrogen Storage	S-113547

N/A	09-022	10797917.1	FR 2454189	High Capacity Stabilized Complex Hydrides for Hydrogen Storage	S-113547
SRNS-194	09-026	12/932242	8945500	High Capacity Hydrogen Storage Nanocomposite Materials	S-113551
SRNS-194-CIP	09-026 CIP	14/532045	9840412	High Capacity Hydrogen Storage Nanocomposite Materials	S-113672
SRNS-195	10-002	12/882962	8470073	Apparatus and Process for Separating Hydrogen Isotopes	S-113555
SRNS-196-DIV	10-004 Div. 1	15/296135	10322405	Highly Dispersed Metal Catalyst and Related Methods	S-113772
SRNS-20	10-009	13/212483	9147503	System and Method for the Identification of Radiation in Contaminated Rooms	S-113562
SRNS-20-DIV	10-009 Div. 1	14/823196	9678219	Position and Orientation Determination System and Method	S-113766
SRNS-172	10-015	13/135745	8545820	Use of Titanium-based Materials as Bactericides	S-113568
SRNS-197	10-016	13/066166	9005486	Proton Conducting Ceramics in Membrane Separations	S-113569
SRNS-198	10-023	13/313472	8377415	Novel Method for Synthesizing Alane without the Formation of Adducts and Free of Halide	S-113576
N/A	10-030	61/351150	n/a	Shipping Container	n/a
N/A	10-030	13/151,733	8616404	Shipping Container	S-113583
SRNS-6	10-031	13/297826	9023550	Nanocrystalline Cerium Oxide Materials for Solid Fuel Cell Systems	S-113584
SRNS-199	10-032	13/427254	9075148	Nano Structural Anodes for Radiation Detectors	S-113585
SRNS-200	10-034	13/314348	8928325	Identification of Elemental Mercury in the Subsurface	S-113587
SRNS-203	10-036	13/359730	8884228	Modification of Solid State CdZnTe (CZT) Radiation Detectors with a High Sensitivity or High Resolution Operation	S-113589
SRNS-201	10-040	13/675434	9373923	Rapid Prototype Extruded Conductive Pathways	S-113593
SRNS-201-CON	10-040 CON	15/187836	10085348	Rapid Prototype Extruded Conductive Pathways	S-113796
SRNS-202	10-046	13/570516	8956526	Hybrid Sulfur Cycle Operation for High-Temperature Gas-Cooled Reactors	S-113599
SRNS-204	10-047	13/136888	9007576	Surface Enhanced Raman Scattering Spectroscopic Waveguide	S-113600
SRNS-205	11-002	13/311765	9933407	Water Cooler Towers and Other Man-made Aquatic Systems as Environmental Collection Systems for Agents of Concern	S-113605
SRNS-206	11-006	13/269803	8709179	Suppressing Tin Whisker Growth in Lead-Free Solders and Platings	S-113609

SRNS-1	11-007	13/558464	8916829	System and Method for Assaying a Radionuclide	S-113611
SRNS-3	11-008	13/234284	8801957	Nanoparticle Enhanced Ionic Liquid Heat Transfer Fluids	S-113612
SRNS-207	11-010	13/461916	9428124	Haptic Seat for Fuel Economy Feedback	S-113614
SRNS-5	11-016	13/301328	8581195	System and Method for Assaying Radiation	S-113621
SRNS-8	11-023	13/465626	8837672	Concealed Identification Symbols and Nondestructive Determination of the Identification Symbols	S-113628
SRNS-209	11-027	14/095033	9199844	Two Step Novel Hydrogen System Using Additives to Enhance Hydrogen Release from the Hydrolysis of Alane and Activated Aluminum	S-113632
SRNS-210	11-029	13/455718	8770891	Vapor Phase Elemental Sulfur Amendment for Sequestering Mercury in Contaminated Soil	S-113634
SRNS-4	11-030	13/305201	8822984	Method and System for Reducing Device Performance Degradation of Organic Devices	S-113635
SRNS-208	11-031	13/629753	9325030	High Energy Density Battery Based on Complex Hydrides	S-113636
SRNS-7	11-034	13/666502	9473300	Authenticated Sensor Interface Device	S-113640
SRNS-7-DIV	11-034 Div. 1	15/249762	9961108	Authenticated Sensor Interface Device	S-113807
SRNS-12	12-011	13/606558	8747786	Ionic Liquids as Templating Agents in Formation of Uranium-Containing Nanomaterials	S-113653
SRNS-15	12-022	14/249468	9530576	Device for Remote Operation of Electrical Disconnect	S-113664
SRNS-28	12-027	13/974525	10436516	Thermal Cycling Device	S-113669
SRNS-212	12-028	13/737131	9321638	Use of Triphenyl Phosphate as Risk Mitigant for Metal Amide Hydrogen Storage Material	S-113670
SRNS-213	12-029	13/720321	9725317	Use of the Triammonium Salt of Aurin Tricarboxylic Acid as Risk Mitigant for Aluminum Hydride	S-113671
SRNS-13	12-032	14/312098	9382632	Electrochemical Fluorination for Processing of Used Nuclear Fuel	S-113675
SRNS-13-DIV	12-032 Div. 1	15/083632	9562297	Galvanic Cell for Processing of Used Nuclear Fuel	S-113786
SRNS-34	12-036	14/104681	9809380	Heat Transfer Unit and Method for Prefabricated Vessel	S-113679
SRNS-34-CIP	15-013 12-036	14/947239	9957103	Heat Transfer Unit and Method for Prefabricated Vessel	S-113763
SRNS-38	12-041	14/020504	9145304	Synthesis of Nanosize Sodium Titanates	S-113684

SRNS-18	12-042	14/035150	9103921	Photonic Crystal Scintillators and Methods of Manufacture	S-113686
SRNS-22	12-043	13/759372	9927533	Instrument for Assaying Radiation	S-113687
SRNS-214	12-044 13-009	14/242087	9597658	Metal-Organic Framework Templated Synthesis of Porous Inorganic Materials as Novel Sorbents	S-113688
SRNS-215	13-006	14/295987	9959949	Solid State Electrolyte Composites based on Complex Hydrides and Metal Doped Fullerenes/Fulleranes for Batteries and Electrochemical Applications	S-113696
SRNS-215-DIV	13-006 Div. 1	15/937022	10706987	Solid State Electrolyte Composites based on Complex Hydrides and Metal Doped Fullerenes/Fulleranes for Batteries and Electrochemical Applications	S-113851
SRNS-49	13-007 13-017	14/226458	9793019	Low Temperature Chemical Processing of Graphite-Clad Nuclear Fuels	S-113697
SRNS-49-EP	13-007 13-017	14886922.5	EP 3123479	Low Temperature Chemical Processing of Graphite-Clad Nuclear Fuels	S-113697
SRNS-49-DE	13-007 13-017	602014053226.8	DE 3123479	Low Temperature Chemical Processing of Graphite-Clad Nuclear Fuels	S-113697
SRNS-32A	13-019A	13/973485	9217738	Method for Characterization of the Redox Condition of Cementitious Materials	S-113709
SRNS-32B	13-019B	13/973567	9274093	Method for Characterization of the Rate of Movement of an Oxidation Front in Cementitious Materials	S-113718
SRNS-35	13-020	14/037949	9019096	Rapid Deployable Global Sensing Hazard Alert System	S-113711
SRNS-39-PCT-US	13-023	15/034611	10381121	Decontamination of Tritiated Water	S-113714 S-113874
SRNS-39-PCTUSDV	13-023 Div. 1	16/512883	11087897	Decontamination of Tritiated Water	S-113714 S-113874
SRNS-39-CA	13-023	2,930,518	2,930,518	Decontamination of Tritiated Water	S-113714 S-113874
SRNS-39-EP	13-023	13897566.9	EP 3068518	Decontamination of Tritiated Water	S-113714 S-113874
SRNS-39-JP	13-023	2016-530871	JP 6486922	Decontamination of Tritiated Water	S-113714 S-113874
SRNS-39-FR	13-023	13897566.9	FR 3068518	Decontamination of Tritiated Water	S-113714 S-113874
SRNS-39-DE	13-023	602013074809.8	DE 3068518	Decontamination of Tritiated Water	S-113714 S-113874
SRNS-39-GB	13-023	13897566.9	GB 3068518	Decontamination of Tritiated Water	S-113714 S-113874

SRNS-39-RO	13-023	13897566.9	RO 3068518	Decontamination of Tritiated Water	S-113714 S-113874
SRNS-43	13-024	14/799844	9754469	System for Tamper Identification	S-113715
SRNS-45	14-001	15/837726	10632400	Heavy Metal Separations using Strongly Paramagnetic Column Packings in a Nonhomogeneous Magnetic Field	S-113720
SRNS-46	14-002	14/546107	9683704	Heating and Cooling System for an On-Board, Gas Absorbent Storage Vessel	S-113721
SRNS-46-DIV	14-002 Div. 1	15/597336	10422481	Heating and Cooling System for an On-Board, Gas Absorbent Storage Vessel	S-113721
SRNS-47	14-005	14/723933	9799415	Method for Controlling Aluminum Dissolution	S-113724
SRNS-51	14-008	14/576362	9388478	Technetium Recovery from High Alkaline Solution	S-113727
SRNS-53	14-011	14/876873	10070072	System and Method for Detecting High-Energy Photons	S-113730
SRNS-54	14-012	14/955222	9626608	Additive Manufactured Serialization	S-113731
SRNS-56	14-014	14/931018	10450660	Recovery of Tritium from Molten Lithium Blanket	S-113733
SRNS-56-EP	14-014	15856488.0	EP 3215657	Recovery of Tritium from Molten Lithium Blanket	S-113733
SRNS-56-FR	14-014	15856488.0	FR 3215657	Recovery of Tritium from Molten Lithium Blanket	
SRNS-59	14-015	14/625219	9685600	Enhanced Superconductivity of Fullerenes	S-113734
SRNS-59-DIV	14-015 Div. 1	15/597984	10418539	Enhanced Superconductivity of Fullerenes	S-113734
SRNS-57	14-016	14/573499	10157689	Reinforced Radiological Containment Bag	S-113735
SRNS-58	14-017	14/930966	10598599	Methods and Materials for Determination of Distribution Coefficients for Separation Materials	S-113736
SRNS-62	14-019A	14/559419	9291719	Radiation Imaging System	S-113738
SRNS-62-CON	14-019A CON	15/042185	9377536	Radiation Imaging System	S-113780
SRNS-62-CA	14-019A	2,968,842	2,968,842	Radiation Imaging System	S-113738
SRNS-77	14-019B	14/661624	10935677	Image Plate Calibration System	S-113757
SRNS-216	14-021	14/961087	10443954	High Performance Metal Hydride Based Thermal Energy Storage Systems for Concentrating Solar Power	S-113740
SRNS-64	14-023	14/718165	9610589	Electrostatic Particle Collector with Improved Features for Installing	S-113742

				and/or Removing its Collector Plates	
SRNS-65A	14-024A	14/710175	10234376	Non-Contact Monitoring of Biofilms and Corrosion on Submerged Surfaces with Electrochemical Impedance Spectroscopy	S-113743
SRNS-66	14-025	14/724085	9896738	Process for Dissolving Aluminum for Recovering Nuclear Fuel	S-113744
SRNS-81	15-009	16/029017	10941041	Method of Manufacturing Graphene Using Photoreduction	S-113759
SRNS-82	15-010	15/141415	9738827	Carbon Quantum Dots and a Method of Making the Same	S-113760
SRNS-83	15-011	15/056699	9700829	Method of Capturing or Trapping Zinc Using Zinc Getter Materials	S-113761
SRNS-88	15-016	15/183222	10016745	Multifunctional Nanomaterials and Methods of Photothermal Heating and Catalysis Using the Same	S-113768
SRNS-84	15-017	14/867644	9623371	Low Temperature Vapor Phase Digestion of Graphite	S-113769
SRNS-84-EP	15-017	16852334.8	EP 3356574	Low Temperature Vapor Phase Digestion of Graphite	S-113769
SRNS-84-DE	15-017	602016046451.9	DE 3356574	Low Temperature Vapor Phase Digestion of Graphite	S-113769
SRNS-84-FR	15-017	16852334.8	FR 3356574	Low Temperature Vapor Phase Digestion of Graphite	
SRNS-84-GB	15-017	16852334.8	GB 3356574	Low Temperature Vapor Phase Digestion of Graphite	
SRNS-90	16-003	15/808244		Electrochemical Detection of Microbial Stress	S-113777
SRNS-96	16-010	15/797710	10752986	Method of Manufacturing a Three-Dimensional Carbon Structure	S-113785
SRNS-97	16-011	15/228448	10340049	Alpha/Beta Radiation Shielding Materials	S-113787
SRNS-97-CA	16-011	2,974,590		Alpha/Beta Radiation Shielding Materials	S-113787
SRNS-98	16-012	15/419411	10151788	Autonomously Powered Inductively Coupled Time Domain Reflectometer Sensor Device	S-113788
SRNS-99	16-013 16-027	15/492783	10274462	Device for Measuring Material Deterioration in Equipment	S-113789
SRNS-101	16-015	15/370152	10490825	Non-Platinum Group Metal Oxygen Reduction Reaction Catalysts	S-113791
SRNS-102	16-016	16/880275		Separation of Hydrogen Isotopes via Plasmonic Heating	S-113792
SRNS-103	16-018	15/252805	10556206	Isotope Separation Methods and Systems	S-113794
SRNS-105	16-019	15/435976	10056218	Graphene/Graphite-Based Filament for Thermal Ionization	S-113795
SRNS-111	16-029	15/484210	10450668	Development of a Passivated Stainless Steel Surface	S-113806

SRNS-114	16-032	15/910407	11177055	Leading/Lagging Cable Referencing Platform for Monitoring the Health of Underground Cable Networks	S-113810
SRNS-115	16-033	15/585748	10507452	Controlled Release of Hydrogen from Composite Nanoparticles	S-113811
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