

## TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

ETAS ID: TM675602

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT		
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST		
<b>CONVEYING PARTY DATA</b>			
<b>Name</b>	<b>Formerly</b>	<b>Execution Date</b>	<b>Entity Type</b>
Essentium, Inc.		09/02/2021	Corporation: DELAWARE
<b>RECEIVING PARTY DATA</b>			
<b>Name:</b>	QSHGP, Inc.		
<b>Street Address:</b>	8801 South Yale Avenue		
<b>Internal Address:</b>	Suite 380		
<b>City:</b>	Tulsa		
<b>State/Country:</b>	OKLAHOMA		
<b>Postal Code:</b>	74137		
<b>Entity Type:</b>	Corporation: TEXAS		
<b>PROPERTY NUMBERS Total: 26</b>			
<b>Property Type</b>	<b>Number</b>	<b>Word Mark</b>	
<b>Serial Number:</b>	87320681	FLASHFUSE	
<b>Serial Number:</b>	87320665	FUSEBOX	
<b>Serial Number:</b>	87375750	ESSENTIUM	
<b>Serial Number:</b>	87375669	ESSENTIUM BUILD YOUR WORLD	
<b>Serial Number:</b>	87375693	ESSENTIUM FILAMENT	
<b>Serial Number:</b>	87375717	MATERIALS GENIUS	
<b>Serial Number:</b>	87872464	FLASHFUSE FILAMENT	
<b>Serial Number:</b>	88838976	ESSENTIUM DRYBOX	
<b>Serial Number:</b>	88188701	HSE	
<b>Serial Number:</b>	88188657	HIGH SPEED EXTRUSION	
<b>Serial Number:</b>	88188558	ESSENTIUM HIGH SPEED EXTRUSION	
<b>Serial Number:</b>	90168613	ESSENTIUM HSE 180·S	
<b>Serial Number:</b>	88192332	HSE 180 · S	
<b>Serial Number:</b>	88285473	ARBORX	
<b>Serial Number:</b>	88285497	HOZZLE	
<b>Serial Number:</b>	88285521	ESSENTIUM FILAMENT CARE SYSTEM	
<b>Serial Number:</b>	88684853	INDUSTRIAL ADDITIVE	
<b>Serial Number:</b>	88684970	ESSENTIUM INDUSTRIAL ADDITIVE	

CH \$665.00 87320681

Property Type	Number	Word Mark
Serial Number:	88684981	E ESSENTIUM INDUSTRIAL ADDITIVE
Serial Number:	88776061	
Serial Number:	90726842	ESSENTIUM WRX
Serial Number:	90751738	ESSENTIUMX
Serial Number:	90168659	ESSENTIUM HSE
Serial Number:	90632737	FLASHFUSE
Serial Number:	88843965	TRIFUSION DEVICES
Serial Number:	86178631	BUILDING THE NEXT GENERATION OF ESSENTIA

**CORRESPONDENCE DATA**

**Fax Number:** 2149536899  
*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.*  
**Phone:** 2149536500  
**Email:** daltmdept@bakerbotts.com  
**Correspondent Name:** Cecily Porterfield, Baker Botts L.L.P.  
**Address Line 1:** 2001 Ross Avenue  
**Address Line 2:** Suite 900  
**Address Line 4:** Dallas, TEXAS 75201-2900

<b>ATTORNEY DOCKET NUMBER:</b>	004157.0614
<b>NAME OF SUBMITTER:</b>	Cecily Porterfield
<b>SIGNATURE:</b>	/Cecily Porterfield/
<b>DATE SIGNED:</b>	09/20/2021

**Total Attachments: 12**

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## INTELLECTUAL PROPERTY SECURITY AGREEMENT

This INTELLECTUAL PROPERTY SECURITY AGREEMENT (“**IP Security Agreement**”), dated as of September 2, 2021, is made by and between Essentium, Inc., a Delaware corporation (the “**Grantor**”) in favor of QSHGP, Inc., a Texas corporation (the “**Collateral Agent**”), as collateral agent for the purchasers under the Note Purchase Agreement referred to below.

WHEREAS, the Grantor has entered into a Note Purchase Agreement dated as of August 27, 2021 (the “**Note Purchase Agreement**”), with the Collateral Agent and the purchasers (the “**Purchasers**”) party thereto. Capitalized terms used herein and not otherwise defined herein shall have the respective meanings given to them in the Note Purchase Agreement.

WHEREAS, as a condition precedent to the making of the Loans by the Purchasers under the Note Purchase Agreement, the Grantor has granted to the Collateral Agent, for the benefit of the Purchasers, a security interest in, among other property, certain intellectual property of the Grantor, and has agreed to execute and deliver this IP Security Agreement for recording with the United States Patent and Trademark Office.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

1. Grant of Security. The Grantor hereby pledges and grants to the Collateral Agent for the ratable benefit of the Purchasers a security interest in and to all of the right, title, and interest of the Grantor in, to, and under the following (the “**IP Collateral**”):

(a) the patents and patent applications set forth in Schedule 1 hereto and all reissues, divisions, continuations, continuations-in-part, renewals, extensions, and reexaminations thereof and amendments thereto (the “**Patents**”);

(b) the trademark registrations and applications set forth in Schedule 2 hereto, together with the goodwill connected with the use thereof and symbolized thereby, and all extensions and renewals thereof (the “**Trademarks**”), excluding only United States intent to use trademark applications to the extent that, and solely during the period in which, the grant, attachment, or enforcement of a security interest therein would, under applicable federal law, impair the registrability of such applications or the validity or enforceability of registrations issuing from such applications;

(c) all rights of any kind whatsoever of the Grantor accruing under any of the foregoing provided by applicable law of any jurisdiction, by international treaties and conventions, and otherwise throughout the world;

(d) any and all royalties, fees, income, payments, and other proceeds now or hereafter due or payable with respect to any and all of the foregoing; and

(e) any and all claims and causes of action with respect to any of the foregoing, whether occurring before, on, or after the date hereof, including all rights to and claims for damages, restitution, and injunctive and other legal and equitable relief for past, present, and future infringement, dilution, misappropriation, violation, misuse, breach, or default, with the right, but no obligation, to sue for such legal and equitable relief and to collect, or otherwise recover, any such damages.

2. Recordation. The Grantor authorizes the Commissioner for Patents, the Commissioner for Trademarks and any other government officials to record and register this IP Security Agreement upon request by the Collateral Agent.

3. Loan Documents. This IP Security Agreement has been entered into pursuant to and in conjunction with the Note Purchase Agreement, which is hereby incorporated by reference. The provisions of the Note Purchase Agreement shall supersede and control over any conflicting or inconsistent provision herein. The rights and remedies of the Collateral Agent with respect to the IP Collateral are as provided by the Note Purchase Agreement, the Notes and related documents, and nothing in this IP Security Agreement shall be deemed to limit such rights and remedies.

4. Execution in Counterparts. This IP Security Agreement may be executed in counterparts (and by different parties hereto in different counterparts), each of which shall constitute an original, but all of which when taken together shall constitute a single contract. Delivery of an executed counterpart of a signature page to this IP Security Agreement by facsimile or in electronic (i.e., "pdf" or "tif") format shall be effective as delivery of a manually executed counterpart of this IP Security Agreement.

5. Successors and Assigns. This IP Security Agreement will be binding on and shall inure to the benefit of the parties hereto and their respective successors and assigns.

6. Governing Law. This IP Security Agreement shall be governed by, construed under and enforced in accordance with the laws of the State of New York.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, the Grantor has caused this IP Security Agreement to be duly executed and delivered by its officer thereunto duly authorized as of the date first above written.

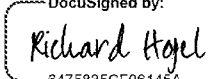
ESSENTIUM, INC.

DocuSigned by:  
  
By: \_\_\_\_\_  
Name: Blake Teipel  
Title: Chief Executive Officer

Address for Notices:  
19025 N. Heatherwilde Blvd., Suite 100  
Pflugerville, TX 78660

AGREED TO AND ACCEPTED:

QSHGP, INC., as Collateral Agent

DocuSigned by:  
  
By: \_\_\_\_\_  
Name: Richard C. Hojel  
Title: Chairman

Address for Notices:

8801 South Yale Ave., Suite 380

Tulsa, OK 74137

**SCHEDULE 1**

**PATENTS**

[See attached.]

Foreign Patent	ESS001_PCT_EP	ESS001	ESS001	CELLULOSE NANOCRYSTAL POLYMER COMPOSITE	Pending	1/22/2016	EP16803164.1	EPO
US Patent	ESS001	ESS001	ESS001	CELLULOSE NANOCRYSTAL POLYMER COMPOSITE	Converted	6/3/2014	6200724	US
US Patent	ESS001_PCT_US	ESS001	ESS001	CELLULOSE NANOCRYSTAL POLYMER COMPOSITE	Issued	12/11/2016	1,515,550	US
Foreign Patent	ESS001_PCT_JP	ESS001	ESS001	CELLULOSE NANOCRYSTAL POLYMER COMPOSITE	Converted	6/3/2015	PCT/US2015/34004	PCT
US Patent	ESS002_PCT_US	ESS002	ESS002	NATURAL FIBER COMPOSITE AND METHOD OF PRODUCTION	Pending	11/17/2017	16,781,763.2	EPO
US Patent	ESS002_PCT_US	ESS002	ESS002	NATURAL FIBER COMPOSITE AND METHOD OF PRODUCTION	Converted	4/20/2015	62150923	US
Foreign Patent	ESS002_PCT_CA	ESS002	ESS002	NATURAL FIBER COMPOSITE AND METHOD OF PRODUCTION	Issued	10/20/2017	15568216	US
Foreign Patent	ESS002_PCT_CA	ESS002	ESS002	NATURAL FIBER COMPOSITE AND METHOD OF PRODUCTION	Issued	4/20/2016	PCT/US1629436	PCT
Foreign Patent	ESS003_PCT_CA	ESS003	ESS003	SYNTHETICALLY MODIFIED THERMOPLASTIC POLYMER COMPOSITES HAVING CELLULOSE NANOPARTICLES	Pending	12/28/2017	2991063	Canada
Foreign Patent	ESS003_PCT_EP	ESS003	ESS003	SYNTHETICALLY MODIFIED THERMOPLASTIC POLYMER COMPOSITES HAVING CELLULOSE NANOPARTICLES	Granted	1/3/2018	16,618,620.9	EPO
Foreign Patent	ESS003_PCT_JP	ESS003	ESS003	SYNTHETICALLY MODIFIED THERMOPLASTIC POLYMER COMPOSITES HAVING CELLULOSE NANOPARTICLES	Issued	12/28/2017	2017-569410	Japan
Foreign Patent	ESS003_PCT_JR	ESS003	ESS003	SYNTHETICALLY MODIFIED THERMOPLASTIC POLYMER COMPOSITES HAVING CELLULOSE NANOPARTICLES	Pending	1/30/2018	PCT/US1629436	PCT
Foreign Patent	ESS003_PCT_JK	ESS003	ESS003	SYNTHETICALLY MODIFIED THERMOPLASTIC POLYMER COMPOSITES HAVING CELLULOSE NANOPARTICLES	Terminated	12/30/2017	62196417	Mexico
US Patent	ESS003_PCT_US	ESS003	ESS003	SYNTHETICALLY MODIFIED THERMOPLASTIC POLYMER COMPOSITES HAVING CELLULOSE NANOPARTICLES	Converted	6/30/2015	1,573,939.9	US
US Patent	ESS003_US_DIV	ESS003	ESS003	SYNTHETICALLY MODIFIED THERMOPLASTIC POLYMER COMPOSITES HAVING CELLULOSE NANOPARTICLES	Converted	12/22/2017	1,682,008	US
Foreign Patent	ESS003_PCT_CN	ESS003	ESS003	SYNTHETICALLY MODIFIED THERMOPLASTIC POLYMER COMPOSITES HAVING CELLULOSE NANOPARTICLES	Issued	3/16/2020	PCT/US2016/04047	PCT
Foreign Patent	ESS006_PCT_CN	ESS006	ESS006	THREE DIMENSIONAL PRINTER APPARATUS	Issued	6/30/2016	11,098,240.0	China
Foreign Patent	ESS006_PCT_JP	ESS006	ESS006	THREE DIMENSIONAL PRINTER APPARATUS	Issued	6/21/2019	1,789,169.0	EPO
Foreign Patent	ESS006_PCT_JK	ESS006	ESS006	THREE DIMENSIONAL PRINTER APPARATUS	Pending	6/3/2019	62020003633.8	Hong Kong
US Patent	ESS006_PCT_US	ESS006	ESS006	THREE DIMENSIONAL PRINTER APPARATUS	Converted	3/3/2020	62,416,890	US
US Patent	ESS006_PCT_US	ESS006	ESS006	THREE DIMENSIONAL PRINTER APPARATUS	Converted	11/3/2016	1,646,693.3	US
Foreign Patent	ESS008_PCT_CN	ESS008	ESS008	ATMOSPHERIC PLASMA CONDUCTION PATHWAY FOR THE APPLICATION OF ELECTROMAGNETIC ENERGY TO 3D PRINTED PARTS	Done	11/11/2017	PCT/US17/59878	PCT
Foreign Patent	ESS008_PCT_EP	ESS008	ESS008	ATMOSPHERIC PLASMA CONDUCTION PATHWAY FOR THE APPLICATION OF ELECTROMAGNETIC ENERGY TO 3D PRINTED PARTS	Pending	8/23/2019	201880013631X	China
Foreign Patent	ESS008_PCT_JP	ESS008	ESS008	ATMOSPHERIC PLASMA CONDUCTION PATHWAY FOR THE APPLICATION OF ELECTROMAGNETIC ENERGY TO 3D PRINTED PARTS	Pending	8/16/2019	1,875,979.3	EPO
US Patent	ESS018_PCT_US	ESS018	ESS018	ATMOSPHERIC PLASMA CONDUCTION PATHWAY FOR THE APPLICATION OF ELECTROMAGNETIC ENERGY TO 3D PRINTED PARTS	Converted	2/24/2017	56463368	US
US Patent	ESS018_PCT_US	ESS018	ESS018	ATMOSPHERIC PLASMA CONDUCTION PATHWAY FOR THE APPLICATION OF ELECTROMAGNETIC ENERGY TO 3D PRINTED PARTS	Pending	9/26/2019	1,649,679	US
Foreign Patent	ESS018_PCT_CN	ESS018	ESS018	ATMOSPHERIC PLASMA CONDUCTION PATHWAY FOR THE APPLICATION OF ELECTROMAGNETIC ENERGY TO 3D PRINTED PARTS	Done	2/19/2018	PCT/US18/18629	PCT
Foreign Patent	ESS024_PCT_CN	ESS024	ESS024	THREE DIMENSIONAL PRINTER APPARATUS	Pending	11/15/2019	201880032225	China
US Patent	ESS024_PCT_US	ESS024	ESS024	THREE DIMENSIONAL PRINTER APPARATUS	Pending	11/5/2019	1,802,059.8	EPO
US Patent	ESS024_PCT_US	ESS024	ESS024	THREE DIMENSIONAL PRINTER APPARATUS	Converted	5/19/2017	6250844	US
Foreign Patent	ESS024_PCT_EP	ESS024	ESS024	THREE DIMENSIONAL PRINTER APPARATUS	Pending	11/18/2019	1,661,4600	US
Foreign Patent	ESS024_PCT_JP	ESS024	ESS024	THREE DIMENSIONAL PRINTER APPARATUS	Done	5/18/2018	PCT/US18/33409	PCT
Foreign Patent	ESS025_PCT_JP	ESS025	ESS025	HYBRID THERMOPLASTIC COMPOSITES WITH LONG AND SHORT FIBER MATERIALS AND NATURAL NANOPARTICLES	Pending	12/10/2019	1,881,2756.7	EPO
US Patent	ESS025	ESS025	ESS025	HYBRID THERMOPLASTIC COMPOSITES WITH LONG AND SHORT FIBER MATERIALS AND NATURAL NANOPARTICLES	Converted	6/5/2017	2015-586181	Japan
US Patent	ESS025_PCT_US	ESS025	ESS025	HYBRID THERMOPLASTIC COMPOSITES WITH LONG AND SHORT FIBER MATERIALS AND NATURAL NANOPARTICLES	Pending	12/3/2019	62515172	US
Foreign Patent	ESS025_PCT_US	ESS025	ESS025	HYBRID THERMOPLASTIC COMPOSITES WITH LONG AND SHORT FIBER MATERIALS AND NATURAL NANOPARTICLES	Done	6/5/2018	PCT/US18/36038	US
Foreign Patent	ESS025_PCT_US	ESS025	ESS025	HYBRID THERMOPLASTIC COMPOSITES WITH LONG AND SHORT FIBER MATERIALS AND NATURAL NANOPARTICLES	Pending	7/15/2021		Canada
Foreign Patent	ESS030_PCT_CN	ESS030	ESS030	TOOL ASSEMBLY FOR MANUFACTURING PARTS AND A METHOD OF PRODUCING A TOOLING ASSEMBLY	Pending	5/27/2020	201880076274	China
Foreign Patent	ESS030_PCT_EP	ESS030	ESS030	TOOL ASSEMBLY FOR MANUFACTURING PARTS AND A METHOD OF PRODUCING A TOOLING ASSEMBLY	Pending	6/26/2020	1,882,246.4	EPO
Foreign Patent	ESS030_PCT_JP	ESS030	ESS030	TOOL ASSEMBLY FOR MANUFACTURING PARTS AND A METHOD OF PRODUCING A TOOLING ASSEMBLY	Pending	5/27/2020	2020-546304	Japan
Foreign Patent	ESS030_PCT_JK	ESS030	ESS030	TOOL ASSEMBLY FOR MANUFACTURING PARTS AND A METHOD OF PRODUCING A TOOLING ASSEMBLY	Pending	6/15/2020	0-0-000-701742	Korea, Republic of
Foreign Patent	ESS030_PCT_SG	ESS030	ESS030	TOOL ASSEMBLY FOR MANUFACTURING PARTS AND A METHOD OF PRODUCING A TOOLING ASSEMBLY	Pending	5/15/2020	1120200452R	Singapore
Foreign Patent	ESS030_PCT_SG_DIV	ESS030	ESS030	TOOL ASSEMBLY FOR MANUFACTURING PARTS AND A METHOD OF PRODUCING A TOOLING ASSEMBLY	Converted	6/18/2021	1020210688W	Singapore
US Patent	ESS030_PCT_US	ESS030	ESS030	TOOL ASSEMBLY FOR MANUFACTURING PARTS AND A METHOD OF PRODUCING A TOOLING ASSEMBLY	Converted	11/27/2017	62910115	US
US Patent	ESS030_PCT_US	ESS030	ESS030	TOOL ASSEMBLY FOR MANUFACTURING PARTS AND A METHOD OF PRODUCING A TOOLING ASSEMBLY	Pending	5/22/2020	1,676,663.3	US
Foreign Patent	ESS030_PCT_CA	ESS030	ESS030	MULTIPLE LAYER FILAMENT AND METHOD OF MANUFACTURING	Done	11/27/2018	PCT/US18/62665	PCT
Foreign Patent	ESS031_PCT_CA	ESS031	ESS031	MULTIPLE LAYER FILAMENT AND METHOD OF MANUFACTURING	Pending	8/6/2020	3090866	Canada
Foreign Patent	ESS031_PCT_CN	ESS031	ESS031	MULTIPLE LAYER FILAMENT AND METHOD OF MANUFACTURING	Pending	9/24/2020	2019800218888	China
Foreign Patent	ESS031_PCT_EP	ESS031	ESS031	MULTIPLE LAYER FILAMENT AND METHOD OF MANUFACTURING	Pending	8/7/2020	1,975,889.9	EPO
Foreign Patent	ESS031_PCT_JP	ESS031	ESS031	MULTIPLE LAYER FILAMENT AND METHOD OF MANUFACTURING	Pending	8/7/2020	2020-542788	Japan
US Patent	ESS031	ESS031	ESS031	MULTIPLE LAYER FILAMENT AND METHOD OF MANUFACTURING	Converted	2/18/2018	62627950	US
US Patent	ESS031_PCT_US	ESS031	ESS031	MULTIPLE LAYER FILAMENT AND METHOD OF MANUFACTURING	Pending	8/6/2020	1,669,7980	US
Foreign Patent	ESS031_PCT_US	ESS031	ESS031	MULTIPLE LAYER FILAMENT AND METHOD OF MANUFACTURING	Done	2/8/2019	PCT/US19/17235	PCT
Foreign Patent	ESS032_PCT_CN	ESS032	ESS032	HIGH FREQUENCY ADHESIVE BONDING	Pending	2/1/2021	2019800511506	China
Foreign Patent	ESS032_PCT_EP	ESS032	ESS032	HIGH FREQUENCY ADHESIVE BONDING	Pending	7/29/2019	1,946,495.5	EPO
Foreign Patent	ESS032_PCT_VN	ESS032	ESS032	HIGH FREQUENCY ADHESIVE BONDING	Pending	2/22/2021	1-2021-00669	Viet Nam
US Patent	ESS032	ESS032	ESS032	HIGH FREQUENCY ADHESIVE BONDING	Converted	7/30/2018	62711763	US
US Patent	ESS032_PCT_US	ESS032	ESS032	HIGH FREQUENCY ADHESIVE BONDING	Pending	10/15/2019	1,680,5395	US



PCT	ESS092_PCT	ESS092	ESS092	ESS092	HIGH FREQUENCY ADHESIVE BONDING	Done	7/29/2019	PCT/US1943894	PCT
Foreign Patent	ESS095_CQ_MP	ESS095	ESS095	ESS095	HYDROLYZABLE INTERBEDDED BONDING OF FUSED FILAMENT	Pending	12/26/2014	2,935,221	Canada
Foreign Patent	ESS095_EP_MP	ESS095	ESS095	ESS095	HYDROLYZABLE INTERBEDDED BONDING OF FUSED FILAMENT	Pending	6/24/2016	1,487,933.9	Japan
Foreign Patent	ESS095_IP_DIV	ESS095	ESS095	ESS095	HYDROLYZABLE INTERBEDDED BONDING OF FUSED FILAMENT	Pending	7/24/2019	2019-13627	EPO
Foreign Patent	ESS095_RR_MP	ESS095	ESS095	ESS095	HYDROLYZABLE INTERBEDDED BONDING OF FUSED FILAMENT	Pending	12/26/2014	10-206-702977	Korea, Republic of
Foreign Patent	ESS095_NP_MP	ESS095	ESS095	ESS095	HYDROLYZABLE INTERBEDDED BONDING OF FUSED FILAMENT	Pending	6/27/2016	20165001989	Japan
US Patent	ESS095_CMT	ESS095	ESS095	ESS095	HYDROLYZABLE INTERBEDDED BONDING OF FUSED FILAMENT	Pending	7/19/2019	1,651,719	US
US Patent	ESS095_NP	ESS095	ESS095	ESS095	HYDROLYZABLE INTERBEDDED BONDING OF FUSED FILAMENT	Issued	6/24/2016	1,518,081.7	US
US Patent	ESS095_US_PV	ESS095	ESS095	ESS095	HYDROLYZABLE INTERBEDDED BONDING OF FUSED FILAMENT	Converted	12/26/2013	1,619,093.7	US
PCT	ESS095_PCT_MP	ESS095	ESS095	ESS095	HYDROLYZABLE INTERBEDDED BONDING OF FUSED FILAMENT	Pending	12/26/2014	PCT/US2014/072441	PCT
Foreign Patent	ESS090_PCT_CN	ESS090	ESS090	ESS090	PROCESS FOR HYDROPHOBIC MODIFICATION OF NANOCELLULOSE DURING MANUFACTURING	Pending	5/28/2021	201960079738	China
Foreign Patent	ESS090_PCT_EP	ESS090	ESS090	ESS090	PROCESS FOR HYDROPHOBIC MODIFICATION OF NANOCELLULOSE DURING MANUFACTURING	Pending	5/28/2021	1,989,075.6	EPO
Foreign Patent	ESS090_PCT_JP	ESS090	ESS090	ESS090	PROCESS FOR HYDROPHOBIC MODIFICATION OF NANOCELLULOSE DURING MANUFACTURING	Pending	5/28/2021	1,989,075.6	Japan
Foreign Patent	ESS090_PCT_SK	ESS090	ESS090	ESS090	PROCESS FOR HYDROPHOBIC MODIFICATION OF NANOCELLULOSE DURING MANUFACTURING	Pending	6/11/2021	1,020,217,800.9	Korea, Republic of
US Patent	ESS090_PCT_US	ESS090	ESS090	ESS090	PROCESS FOR HYDROPHOBIC MODIFICATION OF NANOCELLULOSE DURING MANUFACTURING	Converted	11/20/2018	1,627,736.9	US
PCT	ESS090_PCT_MP	ESS090	ESS090	ESS090	PROCESS FOR HYDROPHOBIC MODIFICATION OF NANOCELLULOSE DURING MANUFACTURING	Pending	5/28/2021	1,729,822	US
Foreign Patent	ESS092_PCT_CN	ESS092	ESS092	ESS092	PROCESS FOR HYDROPHOBIC MODIFICATION OF NANOCELLULOSE DURING MANUFACTURING	Done	11/26/2019	PCT/US1963275	PCT
Foreign Patent	ESS092_PCT_EP	ESS092	ESS092	ESS092	PROCESS FOR HYDROPHOBIC MODIFICATION OF NANOCELLULOSE DURING MANUFACTURING	New	8/12/2021		China
Foreign Patent	ESS092_PCT_JP	ESS092	ESS092	ESS092	PROCESS FOR HYDROPHOBIC MODIFICATION OF NANOCELLULOSE DURING MANUFACTURING	New	8/12/2021		Japan
US Patent	ESS092_PCT_US	ESS092	ESS092	ESS092	PROCESS FOR HYDROPHOBIC MODIFICATION OF NANOCELLULOSE DURING MANUFACTURING	Issued	2/12/2019	1,627,381.2	US
US Patent	ESS092_MP	ESS092	ESS092	ESS092	PROCESS FOR HYDROPHOBIC MODIFICATION OF NANOCELLULOSE DURING MANUFACTURING	Issued	8/12/2021		US
PCT	ESS092_PCT_MP	ESS092	ESS092	ESS092	PROCESS FOR HYDROPHOBIC MODIFICATION OF NANOCELLULOSE DURING MANUFACTURING	Pending	2/6/2020	PCT/US2016982	PCT
Foreign Patent	ESS093_PCT_CN	ESS093	ESS093	ESS093	INFRARED HEATING OF ADDITIVE PRINTED PART	Issued	2/12/2019	1,627,382.5	US
Foreign Patent	ESS093_PCT_EP	ESS093	ESS093	ESS093	INFRARED HEATING OF ADDITIVE PRINTED PART	Issued	2/12/2019	1,627,382.5	US
Foreign Patent	ESS093_PCT_JP	ESS093	ESS093	ESS093	INFRARED HEATING OF ADDITIVE PRINTED PART	Issued	2/12/2019	1,627,382.5	Japan
US Patent	ESS093_PCT_US	ESS093	ESS093	ESS093	INFRARED HEATING OF ADDITIVE PRINTED PART	Issued	8/12/2021		US
PCT	ESS093_PCT_MP	ESS093	ESS093	ESS093	INFRARED HEATING OF ADDITIVE PRINTED PART	Pending	2/6/2020	PCT/US2016983	PCT
Foreign Patent	ESS094_PCT_CN	ESS094	ESS094	ESS094	FILAMENT BUFFER	Pending	1/20/2021	3,107,073	China
Foreign Patent	ESS094_PCT_EP	ESS094	ESS094	ESS094	FILAMENT BUFFER	Pending	1/26/2021	201960499354	EPO
Foreign Patent	ESS094_PCT_JP	ESS094	ESS094	ESS094	FILAMENT BUFFER	Pending	1/26/2021	1,946,371.9	Japan
Foreign Patent	ESS094_PCT_SK	ESS094	ESS094	ESS094	FILAMENT BUFFER	Pending	1/15/2021	1,120,210,454.8	Singapore
US Patent	ESS094_PCT_US	ESS094	ESS094	ESS094	FILAMENT BUFFER	Converted	2/9/2021	10-202-7006956	Korea, Republic of
US Patent	ESS094_MP	ESS094	ESS094	ESS094	FILAMENT BUFFER	Converted	7/28/2018	1,627,070	US
US Patent	ESS094_NP	ESS094	ESS094	ESS094	FILAMENT BUFFER	Pending	2/6/2019	1,628,897.3	US
Foreign Patent	ESS094_EP_DS	ESS094	ESS094	ESS094	FILAMENT BUFFER	Issued	7/24/2019	006,638,524	EPO
US Patent	ESS095	ESS095	ESS095	ESS095	THREE-DIMENSIONAL PRINTER	Issued	2/1/2019	2,967,908.9	US
PCT	ESS094_PCT_MP	ESS094	ESS094	ESS094	THREE-DIMENSIONAL PRINTER	Issued	7/24/2019	PCT/US1943427	PCT
Foreign Patent	ESS097_MP	ESS097	ESS097	ESS097	PLASMA DIE BOND	Terminated	10/31/2019		US
Foreign Patent	ESS098_MP_TW	ESS098	ESS098	ESS098	NOZZLE ASSEMBLY WITH A SERPENTINE PATH FOR PRINTER HEAD OF 3D	Terminated	10/31/2019	1,091,387.26	Taiwan
US Patent	ESS098_NP	ESS098	ESS098	ESS098	NOZZLE ASSEMBLY WITH A SERPENTINE PATH FOR PRINTER HEAD OF 3D	Converted	11/5/2019	1,629,065.9	US
PCT	ESS098_PCT_MP	ESS098	ESS098	ESS098	NOZZLE ASSEMBLY WITH A SERPENTINE PATH FOR PRINTER HEAD OF 3D	Converted	11/5/2019	PCT/US2020059151	PCT
US Patent	ESS099_MP	ESS099	ESS099	ESS099	COMPOSITE FILAMENT	Pending	10/31/2019		US
US Patent	ESS099_NP	ESS099	ESS099	ESS099	COMPOSITE FILAMENT	Terminated	10/31/2019		US
Foreign Patent	ESS091_TV	ESS091	ESS091	ESS091	NOVEL EXTRUSION METHOD	Terminated	10/31/2019	1,101,158.4	Taiwan
US Patent	ESS091	ESS091	ESS091	ESS091	NOVEL EXTRUSION METHOD	Pending	4/30/2021	1,630,189.01	US
US Patent	ESS091_MP	ESS091	ESS091	ESS091	NOVEL EXTRUSION METHOD	Pending	5/1/2020	1,630,189.01	US
Foreign Patent	ESS098_MP_TW	ESS098	ESS098	ESS098	EMITTER AND METHOD FOR PLASMA FUSING OF MATERIALS	Pending	11/5/2020	1,091,387.26	Taiwan
US Patent	ESS098_NP	ESS098	ESS098	ESS098	EMITTER AND METHOD FOR PLASMA FUSING OF MATERIALS	Converted	11/5/2019	1,629,065.9	US
PCT	ESS098_PCT_MP	ESS098	ESS098	ESS098	EMITTER AND METHOD FOR PLASMA FUSING OF MATERIALS	Converted	11/5/2019	PCT/US2020059151	PCT
US Patent	ESS092_MP_PCT	ESS092	ESS092	ESS092	NOZZLE ASSEMBLY FOR PRINTER HEAD OF 3D PRINTER	Pending	11/5/2020	1,629,065.9	US
US Patent	ESS093_MP	ESS093	ESS093	ESS093	NOZZLE ASSEMBLY FOR PRINTER HEAD OF 3D PRINTER	Pending	11/5/2020	PCT/US20209154	PCT
US Patent	ESS094_MP	ESS094	ESS094	ESS094	PLASMA FUSING	Terminated	1/25/2019	1,635,967.1	US
US Patent	ESS094_US_CMT	ESS094	ESS094	ESS094	PLASMA FUSING	Issued	3/20/2019	1,738,658	US
US Patent	ESS094_US_CMT	ESS094	ESS094	ESS094	THREE-DIMENSIONAL PRINTER HEAD INCLUDING AN AUTOMATIC TOUCHDOWN APPARATUS	Pending	7/21/2021	1,738,658	US
PCT	ESS096_MP_PCT	ESS096	ESS096	ESS096	THREE-DIMENSIONAL PRINTER HEAD INCLUDING AN AUTOMATIC TOUCHDOWN APPARATUS	Pending	3/29/2019	1,637,013.5	US
Foreign Patent	ESS097_PCT_CN	ESS097	ESS097	ESS097	FILAMENT CONTAINER	Pending	2/6/2020	PCT/US2016979	PCT
Foreign Patent	ESS097_PCT_CO	ESS097	ESS097	ESS097	FILAMENT CONTAINER	Pending	9/17/2020	3,094,935	Canada
Foreign Patent	ESS097_PCT_CN	ESS097	ESS097	ESS097	HIGH SPEED EXTRUSION 3-D PRINTING SYSTEM	Pending	11/23/2020	20196034810X	China
Foreign Patent	ESS097_PCT_EP	ESS097	ESS097	ESS097	HIGH SPEED EXTRUSION 3-D PRINTING SYSTEM	Pending	10/9/2020	1,977,095.5	EPO
Foreign Patent	ESS097_PCT_JP	ESS097	ESS097	ESS097	HIGH SPEED EXTRUSION 3-D PRINTING SYSTEM	Pending	10/19/2020	10-2020-702952	Korea, Republic of
Foreign Patent	ESS097_PCT_SK	ESS097	ESS097	ESS097	HIGH SPEED EXTRUSION 3-D PRINTING SYSTEM	Pending	9/16/2020	1,120,209,061.8	Singapore
US Patent	ESS097_PCT_US	ESS097	ESS097	ESS097	HIGH SPEED EXTRUSION 3-D PRINTING SYSTEM	Converted	3/21/2018	1,626,801.9	US
US Patent	ESS097_PCT_US	ESS097	ESS097	ESS097	HIGH SPEED EXTRUSION 3-D PRINTING SYSTEM	Pending	9/21/2020	1,668,889	US
Foreign Patent	ESS098_CN_DS	ESS098	ESS098	ESS098	HIGH SPEED EXTRUSION 3-D PRINTING SYSTEM	Done	3/20/2019	PCT/US19123197	PCT
Foreign Patent	ESS098_EP_DS	ESS098	ESS098	ESS098	HIGH SPEED EXTRUSION 3-D PRINTING SYSTEM	Issued	9/4/2019	201939681747	China
Foreign Patent	ESS098	ESS098	ESS098	ESS098	FILAMENT CART	Issued	9/5/2019	006,814,414	EIPO



US Patent	ESS159		ESS159	Dual Head Control	Halted	7/11/2021			US
US Patent	ESS160 US D		ESS160	GRAPHICAL USER INTERFACE FOR PRESENTATION ON A DISPLAY SCREEN OR PORTION THEREOF	Pending	4/27/2021	29780995		US
US Patent	ESS161		ESS161	Nozzle Pre-Heat	Pending	4/28/2021	63180971		US
US Patent	ESS167 US D		ESS167	GRAPHICAL USER INTERFACE FOR PRESENTATION ON A DISPLAY SCREEN OR PORTION THEREOF	Pending	4/27/2021	29780999		US
US Patent	ESS168		ESS168	3D PRINTER SYSTEM INCLUDING HARDWARE ABSTRACTION LAYER	Pending	4/28/2021	63180932		US
US Patent	ESS182		ESS182	JAM Value Banking	New	7/21/2021			US
US Patent	ESS182 PRV		ESS182	JAM Value Banking	Pending	6/15/2021	63210785		US
US Patent	ESS187		ESS187	Flament Buffer	New	8/14/2021			US
US Patent	ESS227		ESS227	Head	New	7/30/2021			US
US Patent	ESS228		ESS228	Wire Pre-Heating	New	7/30/2021			US
US Patent	ESS229		ESS229	Support Bed	Abandoned				US
US Patent	ESS230		ESS230	Environmental Chamber Control	New	7/30/2021			US
US Patent	ESS231		ESS231	Wire Feeding	New	7/30/2021			US
US Patent	ESS232		ESS232	Process Controls	New	7/30/2021			US
US Patent	ESS233		ESS233	Reduction of wastage - preventing potato chipping	New	7/30/2021			US
US Patent	ESS234		ESS234	Feeding Wire Traces	Abandoned				US
US Patent	ESS235		ESS235	Wire Diameter Adjustment Mechanisms	Pending	7/22/2021	63224844		US
US Patent	ESS237		ESS237	ADDITIVE CHEMISTRIES FOR ENABLING IN-SITU CURING OF THERMOSET RESINS FOR ADDITIVE MANUFACTURING PROCESSES	Pending	7/22/2021	63224842		US
US Patent	ESS241		ESS241	THERMOSET DEPOSITION SYSTEM	Pending	9/2/2021			US
US Patent	ESS242		ESS242	Chamber Catalytic Converter	New	9/2/2021			US
Foreign Patent	TR1101_PCT_CA		TR1101	THREE DIMENSIONAL PRINT METHOD AND PART	Pending	4/23/2020	20801150		Canada
Foreign Patent	TR1101_PCT_CN		TR1101	THREE DIMENSIONAL PRINT METHOD AND PART	Pending	6/3/2020	201889078397X		China
Foreign Patent	TR1101_PCT_EP		TR1101	THREE DIMENSIONAL PRINT METHOD AND PART	Pending	5/22/2020	18 870 769 9		EP
Foreign Patent	TR1101_PCT_SG		TR1101	THREE DIMENSIONAL PRINT METHOD AND PART	Pending	4/23/2020	11202003579R		Singapore
Foreign Patent	TR1101_PCT_US		TR1101	THREE DIMENSIONAL PRINT METHOD AND PART	Pending	4/23/2020	16758716		United States of America
US Patent	TR1101_PCT		TR1101	THREE DIMENSIONAL PRINT METHOD AND PART	Converted	10/23/2017	62575810		US
US Patent	TR1103_IP		TR1103	Integrated Attachment and Suspension Feature for 3D Printed Prosthetic Sockets	Done	10/23/2018	9CT/US18/57084		PCT
US Patent	TR1103_IP		TR1103	Integrated Attachment and Suspension Feature for 3D Printed Prosthetic Sockets	New	4/15/2021			US

**SCHEDULE 2**

**TRADEMARKS**

[See attached.]

US Trademark	EMS-108	EMS108	STE (letters only)	Terminated	10/1/2021			US
US Trademark	EMS109	EMS109	STE (logo)	New	12/15/2021			US
US Trademark	EMS110	EMS110	STE (phrase)	Terminated	12/15/2021			US
US Trademark	EMS111	EMS111	HSE	Terminated	3/31/2018			US
US Trademark	EMS112	EMS112	HSE 180	Terminated	3/31/2018			US
US Trademark	EMS113	EMS113	HSE Fishface	Terminated	12/15/2021			US
US Trademark	EMS114	EMS114	HSE (stylized logo)	New	12/15/2021			US
US Trademark	EMS005	EMS005	Fuse	Granted	11/24/2016			US
US Trademark	EMS006	EMS006	Fuse Filament	Granted	11/24/2016			US
US Trademark	EMS007	EMS007	Fuse Process	Granted	11/24/2016			US
Foreign Trademark	ESS016_CN_TM	ESS016	Fishface	Registered	12/5/2019	-42847297		China
Foreign Trademark	ESS016_CN_TM_7	ESS016	Fishface	Registered	12/9/2019	-2909294		China
Foreign Trademark	ESS016_CN_TM_9	ESS016	Fishface	Registered	10/10/2019	018 134-994		China
Foreign Trademark	ESS016_CN_TM_11	ESS016	Fishface	Registered	10/8/2019	-40201921876V		Singapore
Foreign Trademark	ESS016_CN_TM_7	ESS016	Fishface	Abandoned	2/1/2017	87320681		US
Foreign Trademark	ESS017_CN_TM_9	ESS017	Fusebox	Granted	5/24/2021	56309324		China
Foreign Trademark	ESS017_CN_TM_11	ESS017	Fusebox	Granted	6/30/2021	87320665		China
Foreign Trademark	ESS020_CN_TM	ESS020	ESSENTIUM	Registered	2/1/2017			US
Foreign Trademark	ESS020_CN_TM_7	ESS020	ESSENTIUM	New	6/30/2021	-42035003		Canada
Foreign Trademark	ESS020_CN_TM_11	ESS020	ESSENTIUM	Registered	11/1/2019	-42354728		China
Foreign Trademark	ESS020_CN_TM_7	ESS020	ESSENTIUM	Abandoned	11/25/2019	-42140773		China
Foreign Trademark	ESS020_CN_TM_9	ESS020	ESSENTIUM	Abandoned	11/6/2019	-49199416		China
Foreign Trademark	ESS020_CN_TM_11	ESS020	ESSENTIUM	Pending	8/25/2020			China
Foreign Trademark	ESS020_CN_TM_7	ESS020	ESSENTIUM	Pending	9/30/2019	018130656		China
Foreign Trademark	ESS020_CN_TM_9	ESS020	ESSENTIUM	Registered	9/18/2019	-40201920219Q		Singapore
Foreign Trademark	ESS020_CN_TM_11	ESS020	ESSENTIUM	Pending	12/30/2020	109093251		Taiwan
Foreign Trademark	ESS021_CN_TM_42	ESS021	ESSENTIUM BUILD YOUR WORLD	Registered	3/17/2017	87375750		US
Foreign Trademark	ESS021_CN_TM_11	ESS021	ESSENTIUM BUILD YOUR WORLD	Terminated	4/9/2021			China
Foreign Trademark	ESS022_CN_TM_11	ESS022	ESSENTIUM FILAMENT	Registered	3/17/2017	87375669		US
Foreign Trademark	ESS022_CN_TM_7	ESS022	ESSENTIUM FILAMENT	Pending	5/24/2021	56296777		China
Foreign Trademark	ESS022_CN_TM_9	ESS022	ESSENTIUM FILAMENT	Registered	3/17/2017	87375683		US
Foreign Trademark	ESS023_CN_TM_11	ESS023	MAATERIALS GENIUS	Registered	3/17/2017	87375717		US
Foreign Trademark	ESS028_CN_TM_11	ESS028	Fishface Filament	Pending	5/24/2021	56320130		China
Foreign Trademark	ESS028_CN_TM_7	ESS028	Fishface Filament	Registered	4/11/2018	87872464		US
Foreign Trademark	ESS029_CN_TM_11	ESS029	ESSENTIUM DRYBOX	Pending	5/24/2021	56296365		China
Foreign Trademark	ESS029_CN_TM_7	ESS029	ESSENTIUM DRYBOX	Pending	3/18/2020	888198976		US
Foreign Trademark	ESS029_CN_TM_9	ESS029	ESSENTIUM DRYBOX	Registered	12/6/2019	-42885448		China
Foreign Trademark	ESS029_CN_TM_11	ESS029	ESSENTIUM DRYBOX	Registered	12/9/2019	-42909322		China
Foreign Trademark	ESS036_CN_TM_7	ESS036	HSE	Pending	12/6/2019	018163942		China
Foreign Trademark	ESS036_CN_TM_9	ESS036	HSE	Registered	12/6/2019	-40201926581Q		Singapore
Foreign Trademark	ESS036_CN_TM_11	ESS036	HSE	Registered	12/6/2019			Singapore
Foreign Trademark	ESS037_CN_TM_7	ESS037	HIGH SPEED EXTRUSION	Pending	12/30/2020	109093252		Taiwan
Foreign Trademark	ESS037_CN_TM_9	ESS037	HIGH SPEED EXTRUSION	Pending	12/30/2020			Taiwan
Foreign Trademark	ESS037_CN_TM_11	ESS037	HIGH SPEED EXTRUSION	Registered	11/9/2018	88198657		US
Foreign Trademark	ESS039_CN_TM_7	ESS039	ESSENTIUM HIGH SPEED EXTRUSION	Abandoned	11/9/2018	88198658		US
Foreign Trademark	ESS039_CN_TM_9	ESS039	ESSENTIUM HIGH SPEED EXTRUSION	Pending	11/9/2018	88198558		US
Foreign Trademark	ESS039_CN_TM_11	ESS039	ESSENTIUM HIGH SPEED EXTRUSION	Abandoned	11/6/2019	-42148559		China
Foreign Trademark	ESS039_CN_TM_7	ESS039	HSE 180 S	Registered	11/6/2019	-42186643		China
Foreign Trademark	ESS039_CN_TM_9	ESS039	HSE 180 S	Registered	9/30/2019	018130550		China
Foreign Trademark	ESS039_CN_TM_11	ESS039	HSE 180 S	Registered	9/18/2019	-40201920218W		Singapore
Foreign Trademark	ESS039_CN_TM_7	ESS039	HSE 180 S (logo)	Pending	12/30/2020	109093253		Taiwan
Foreign Trademark	ESS039_CN_TM_9	ESS039	HSE 180 S	Pending	11/13/2018			US
Foreign Trademark	ESS041_CN_TM_11	ESS041	Arbox	Abandoned	11/13/2018	88198558		US
Foreign Trademark	ESS041_CN_TM_7	ESS041	Arbox	Pending	6/1/2021	56563860		China
Foreign Trademark	ESS041_CN_TM_9	ESS041	Arbox	Pending	6/1/2021	56550724		China
Foreign Trademark	ESS046_CN_TM_7	ESS046	Arbox	Pending	2/1/2019	88285473		US
Foreign Trademark	ESS046_CN_TM_11	ESS046	Arbox	Pending	6/1/2021	56565099		China
Foreign Trademark	ESS046_CN_TM_7	ESS046	Arbox	Pending	6/1/2021	56551885		China
Foreign Trademark	ESS046_CN_TM_11	ESS046	Arbox	Pending	2/1/2019	88285497		US
Foreign Trademark	ESS055_CN_TM_12	ESS055	ESSENTIUM Filament Care System	Pending	6/1/2021	56565456		China
Foreign Trademark	ESS055_CN_TM_17	ESS055	ESSENTIUM Filament Care System	Pending	6/1/2021	56550758		China

Foreign Trademark	ES5005_CN_TM_7		ES5005	ESSENTIUM Filament Care System	Pending	6/1/2021	565646255	China
US Trademark	ES5005		ES5005	ESSENTIUM FILAMENT CARE SYSTEM	Allowed	2/1/2019	88285321	US
Foreign Trademark	ES5062_CN_TM_17		ES5062	Industrial Additive	Pending	6/1/2021	56565458	China
Foreign Trademark	ES5062_CN_TM_40		ES5062	Industrial Additive	Pending	6/1/2021	56565467	China
Foreign Trademark	ES5062_CN_TM_42		ES5062	Industrial Additive	Pending	6/1/2021	56539216	China
Foreign Trademark	ES5062_CN_TM_7		ES5062	Industrial Additive	Pending	6/1/2021	56563117	China
Foreign Trademark	ES5063_CN_TM_17		ES5063	ESSENTIUM Industrial Additive	Pending	11/8/2019	88864653	US
Foreign Trademark	ES5063_CN_TM_40		ES5063	ESSENTIUM Industrial Additive	Pending	6/1/2021	56570494	China
Foreign Trademark	ES5063_CN_TM_42		ES5063	ESSENTIUM Industrial Additive	Pending	6/1/2021	56563389	China
Foreign Trademark	ES5063_CN_TM_7		ES5063	ESSENTIUM Industrial Additive	Pending	6/1/2021	56564298	China
US Trademark	ES5064		ES5063	ESSENTIUM Industrial Additive	Pending	11/8/2019	88864620	US
US Trademark	ES5064		ES5064	stylized logo for E Essembium Industrial Additive	Allowed	11/8/2019	88864981	US
Foreign Trademark	ES5072_CN_TM_11		ES5072	E (stylized logo - black)	Registered	2/27/2020	44240232	China
Foreign Trademark	ES5072_CN_TM_17		ES5072	E (stylized logo - black)	Registered	2/27/2020	44240231	China
Foreign Trademark	ES5072_CN_TM_40		ES5072	E (stylized logo - black)	Registered	2/19/2020	4020200294V	China
Foreign Trademark	ES5072_CN_TM_42		ES5072	E (stylized logo - black)	Registered	2/19/2020	4020200293V	China
Foreign Trademark	ES5072_CN_TM_7		ES5072	E (stylized logo - black)	Pending	12/30/2020	109093254	Taiwan
US Trademark	ES5072		ES5072	E (stylized logo)	Pending	1/28/2020	88776061	US
Foreign Trademark	ES5092_CN_TM_11		ES5092	E (stylized logo - color)	Registered	2/27/2020	44240229	China
Foreign Trademark	ES5092_CN_TM_17		ES5092	E (stylized logo - color)	Pending	2/24/2020	44191633	China
Foreign Trademark	ES5092_CN_TM_40		ES5092	E (stylized logo - color)	Registered	2/27/2020	44240230	China
Foreign Trademark	ES5092_CN_TM_42		ES5092	E (stylized logo - color)	Registered	2/19/2020	401819813	China
Foreign Trademark	ES5092_CN_TM_7		ES5092	E (stylized logo - color)	Registered	2/19/2020	4020200294X	China
Foreign Trademark	ES5095_CN_TM_11		ES5095	ESSENTIUM WRX	Pending	7/20/2021	2121887	Canada
Foreign Trademark	ES5095_CN_TM_17		ES5095	ESSENTIUM WRX	Pending	7/20/2021	40202117431	Singapore
Foreign Trademark	ES5095_CN_TM_40		ES5095	ESSENTIUM WRX	Pending	5/21/2021	90726842	US
Foreign Trademark	ES5095_CN_TM_42		ES5095	ESSENTIUM WRX	Pending	6/3/2021	90731738	US
Foreign Trademark	ES5095_CN_TM_7		ES5096	ESSENTIUM HSE 1805	Pending	9/9/2020	90168613	US
US Trademark	ES5096		ES5096	ESSENTIUM HSE 1805	Pending	1/4/2019	33918051	China
Foreign Trademark	ES5114_CN_TM_7		ES5114	ESSENTIUM	Registered	3/25/2020	44873899	China
Foreign Trademark	ES5117_US_TM_11		ES5117	ESSENTIUM HSE	Pending	9/9/2020	90168659	US
US Trademark	ES5128_US_TM_11		ES5128	BUILDING THE NEXT GENERATION OF ESSENTIAL MATERIALS	Abandoned	1/29/2014		US
Foreign Trademark	ES5144_CN_TM_11		ES5144	Essentium (Transliteration 1)	Pending	3/25/2021	54661023	China
Foreign Trademark	ES5144_CN_TM_17		ES5144	Essentium (Transliteration 1)	Pending	3/25/2021	54665548	China
Foreign Trademark	ES5144_CN_TM_40		ES5144	Essentium (Transliteration 1)	Pending	3/25/2021	54635896	China
Foreign Trademark	ES5144_CN_TM_42		ES5145	Essentium (Transliteration 2)	Pending	3/25/2021	54635905	China
Foreign Trademark	ES5145_CN_TM_7		ES5145	Essentium (Transliteration 2)	Pending	3/25/2021	54661057	China
Foreign Trademark	ES5145_CN_TM_11		ES5145	Essentium (Transliteration 2)	Pending	3/25/2021	54661057	China
Foreign Trademark	ES5162_US_TM_6		ES5162	FLASHFUSE	Pending	4/8/2021	90632737	US
US Trademark	ES5162_US_TM_11		ES5162	FLASHFUSE	Pending	7/20/2021	2121830	Canada
Foreign Trademark	ES5184_CN_TM_40		ES5184	ESSENTIUM WRX	Pending	7/20/2021	2121832	Singapore
Foreign Trademark	ES5184_CN_TM_42		ES5184	ESSENTIUM WRX	Pending	7/20/2021	2121832	Singapore
Foreign Trademark	ES5184_CN_TM_11		ES5185	ESSENTIUM WRX	New	6/30/2021		China
Foreign Trademark	ES5185_CN_TM_40		ES5185	ESSENTIUM WRX	New	6/30/2021		China
Foreign Trademark	ES5185_CN_TM_42		ES5185	ESSENTIUM WRX	New	6/30/2021		China
Foreign Trademark	ES5185_CN_TM_11		ES5185	ESSENTIUM WRX (ogo two line)	Pending	7/20/2021	4020211743P	Singapore
US Trademark	ES5228_US_TM_11		ES5228	Phonetic Tooling	New	8/6/2021		US
US Trademark	TR104		TR104	TRIFUSION	Pending	3/23/2020	88843965	US

TRADEMARK