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## **ASSETS USED IN OPERATIONS**

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## Assets Used in Operations

### Total Assets

Total assets of The SCG as at 31 December 2020 were Baht 749,381 million of which 29 percent of them are current assets, comprising of cash and cash equivalents, short-term investment, trade and other current receivables, and inventories. The rest (71 percent) are investments, property, plant and equipment.

Most assets shown in the financial statements of the Company and its subsidiaries were belonged to the Company and its subsidiaries.

Total assets can be classified according to main business units as follows:

	<u>2020</u>	<u>2019</u>	
Cement-Building Materials Business	212,615	211,573	Million Baht
Chemicals Business	283,614	230,543	Million Baht
Packaging Business	172,429	139,513	Million Baht
Other	318,831	307,424	Million Baht

From the consolidated financial statements as at 31 December 2020, SCG's property, plant and equipment have carrying values of Baht 363,425 million, which are 48 percent of total assets.

### Property, Plant and Equipment - Net

(in million Baht)

Business Unit	Land		Building		Machinery and others		Total	
	31 Dec 20	31 Dec 19	31 Dec 20	31 Dec 19	31 Dec 20	31 Dec 19	31 Dec 20	31 Dec 19
Cement-Building Materials Business	18,899	16,680	24,908	23,938	63,095	65,197	106,902	105,815
Chemicals Business	10,258	2,681	6,788	5,632	151,203	107,200	168,249	115,513
Packaging Business	7,533	6,660	10,458	9,468	69,280	66,736	87,271	82,864
Other	232	180	1,457	1,579	918	898	2,607	2,657
Consolidated SCG	35,737	25,286	42,914	40,414	284,774	240,286	363,425	305,986

Remark: Figures in financial statements are classified according to business unit before intersegment elimination.

## Intangible Assets

- Patent

At the end of 2020, SCG has 789 valid patents comprising 325 invention patents, 116 petty patents and 348 design patents. The number of patents owned by the Siam Cement PLC., Chemicals Business, Packaging Business, Cement-Building Materials Business and Chemicals Business together with Cement-Building Materials Business, Packaging Business together with Cement-Building Materials Business and Packaging Business together with Chemicals Business are 8 patents, 372 patents, 66 patents, 325 patents, 15 patents, 1 patent and 2 patents consecutively. List of valid patents owned by companies and subsidiaries are listed below:

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
<b><u>The Siam Cement PLC.</u></b>								
1	71209	Aug 22, 2019	The Siam Cement PLC.	1502000122	Jan 14, 2015	-	Design on packaging box	Jan 13, 2025
2	ES2690073 (Spain)	Jul 25, 2018	The Siam Cement PLC.	15001396.9	Apr 8, 2015	Catalyst for 1,3-Butadiene Production from Ethanol	-	Apr 7, 2035
3	DE602015013 848.1 (Germany)	Jul 25, 2018	The Siam Cement PLC.	15001396.9	Apr 8, 2015	Catalyst for 1,3-Butadiene Production from Ethanol	-	Apr 7, 2035
4	3090801 (Great Britain)	Jul 25, 2018	The Siam Cement PLC.	15001396.9	Apr 8, 2015	Catalyst for 1,3-Butadiene Production from Ethanol	-	Apr 7, 2035
5	3090801 (Italy)	Jul 25, 2018	The Siam Cement PLC.	15001396.9	Apr 8, 2015	Catalyst for 1,3-Butadiene Production from Ethanol	-	Apr 7, 2035

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
6	3090801 (France)	Jul 25, 2018	The Siam Cement PLC.	15001396.9	Apr 8, 2015	Catalyst for 1,3-Butadiene Production from Ethanol	-	Apr 7, 2035
7	6793719 (Japan)	Nov 12, 2020	The Siam Cement PLC.	2018-510693	May 4, 2016	Catalyst for 1,3-Butadiene Production from Ethanol	-	May 4, 2036
8	10-2018-7026734 (Korea)	Jul 25, 2019	The Siam Cement PLC.	102004111	Feb 23, 2017	Antimicrobial benzoic acid dental gypsum composition enhanced with addition of low concentration of IPBC	-	Feb 22, 2037

#### Chemicals Business

9	65437	Oct 9, 2018	SCG Chemicals Co., Ltd.	1602000062	Jan 8, 2016	-	Elderly tableware	Jan 7, 2026
10	65438	Oct 9, 2018	SCG Chemicals Co., Ltd.	1602000063	Jan 8, 2016	-	Elderly tableware	Jan 7, 2026
11	65439	Oct 9, 2018	SCG Chemicals Co., Ltd.	1602000064	Jan 8, 2016	-	Elderly tableware	Jan 7, 2026
12	65440	Oct 9, 2018	SCG Chemicals Co., Ltd.	1602000065	Jan 8, 2016	-	Elderly tableware	Jan 7, 2026
13	65435	Oct 9, 2018	SCG Chemicals Co., Ltd.	1602000066	Jan 8, 2016	-	Elderly tableware	Jan 7, 2026
14	65436	Oct 9, 2018	SCG Chemicals Co., Ltd.	1602000067	Jan 8, 2016	-	Elderly tableware	Jan 7, 2026
15	70032	May 29, 2019	SCG Chemicals Co., Ltd.	1702003384	Sep 5, 2017	-	Nut	Sep 4, 2027
16	70375	Jun 20, 2019	SCG Chemicals Co., Ltd.	1702003383	Sep 5, 2017	-	Pathway	Sep 3, 2027
17	70373	Jun 20, 2019	SCG Chemicals Co., Ltd.	1702003386	Sep 5, 2017	-	Stand	Sep 3, 2027

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
18	70374	Jun 20, 2019	SCG Chemicals Co., Ltd.	1702003385	Sep 5, 2017	-	Pin	Sep 3, 2027
19	30201906955Y (Singapore)	Aug 22, 2019	SCG Chemicals Co., Ltd.	30201906955Y	Aug 22, 2019	-	Nut	Aug 21, 2029
20	30201906956X (Singapore)	Aug 22, 2019	SCG Chemicals Co., Ltd.	30201906956X	Aug 22, 2019	-	Floating Connection Unit	Aug 21, 2029
21	30201906954U (Singapore)	Aug 22, 2019	SCG Chemicals Co., Ltd.	30201906954U	Aug 22, 2019	-	Bolt	Aug 21, 2029
22	30201906957V (Singapore)	Aug 22, 2019	SCG Chemicals Co., Ltd.	30201906957V	Aug 22, 2019	-	Floating Solar Panel Stand	Aug 21, 2029
23	Petty Patent 7762	Jan 16, 2013	SCG Chemicals Co., Ltd.	1103000619	Jun 21, 2011	Water container	-	Jun 20, 2021
24	60106 (Iran)	Jul 22, 2009	SCG Chemicals Co., Ltd.	387091337	Dec 20, 2008	Method for preparing a catalyst component for ethylene	-	Dec 19, 2028
25	11201403491T (Singapore)	Jul 9, 2015	SCG Chemicals Co., Ltd.	11201403491T	Jun 20, 2014	Modification of layered double hydroxides	-	Dec 18, 2032 (PCT filing date Dec 18, 2012)
26	4/13336/2014 (Myanmar)	Sep 2, 2014	SCG Chemicals Co., Ltd.	4/13336/2014	Sep 2, 2014	Polymer composition and cable spacer comprising the polymer composition	-	Sep 1, 2034
27	2816051B1 (Germany)	Nov 4, 2015	SCG Chemicals Co., Ltd.	13172833.9	Jun 19, 2013	Catalyst for olefin polymerization, method for its preparation and use	-	Jun 18, 2033

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
28	602014002301.0 (Germany)	Jun 15, 2016	SCG Chemicals Co., Ltd.	14166673.5	Apr 30, 2014	Polymer composition for a container closure	-	Apr 29, 2034
29	2939814 (France)	Jun 15, 2016	SCG Chemicals Co., Ltd.	14166673.5	Apr 30, 2014	Polymer composition for a container closure	-	Apr 29, 2034
30	502016000090465 (Italy)	Jun 15, 2016	SCG Chemicals Co., Ltd.	14166673.5	Apr 30, 2014	Polymer composition for a container closure	-	Apr 29, 2034
31	2939814 (Austria)	Jun 15, 2016	SCG Chemicals Co., Ltd.	14166673.5	Apr 30, 2014	Polymer composition for a container closure	-	Apr 29, 2034
32	2939814 (Belgium)	Jun 15, 2016	SCG Chemicals Co., Ltd.	14166673.5	Apr 30, 2014	Polymer composition for a container closure	-	Apr 29, 2034
33	9382123 (USA)	Jul 5, 2016	SCG Chemicals Co., Ltd.	14/367,437	Jun 20, 2014	Modification of layered double hydroxides	-	Dec 17, 2032 (PCT filing date Dec 18, 2012)
34	20122800702770 (China)	Sep 14, 2016	SCG Chemicals Co., Ltd.	2012800702770	Jun 20, 2014	Modification of layered double hydroxides	-	Dec 17, 2032 (PCT filing date Dec 18, 2012)
35	6034399B2 (Japan)	Nov 4, 2016	SCG Chemicals Co., Ltd.	2014-548249	Jun 20, 2014	Modification of layered double hydroxides	-	Dec 17, 2032 (PCT filing date Dec 18, 2012)
36	2786978 (Germany)	Dec 7, 2016	SCG Chemicals Co., Ltd.	602013014937.2	Apr 3, 2013	Process for converting paraffin to olefin and catalyst for use therein	-	Apr 2, 2033
37	2786978 (France)	Dec 7, 2016	SCG Chemicals Co., Ltd.	13162080.9	Apr 3, 2013	Process for converting paraffin to olefin and	-	Apr 2, 2033

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
						catalyst for use therein		
38	2786978 (Netherland)	Dec 7, 2016	SCG Chemicals Co., Ltd.	13162080.9	Apr 3, 2013	Process for converting paraffin to olefin and catalyst for use therein	-	Apr 2, 2033
39	272518 (India)	Apr 5, 2016	SCG Chemicals Co., Ltd.	2658/MUM/2008	Dec 22, 2008	Method for preparing a catalyst component for ethylene	-	Dec 21, 2028
40	9,765,264B2 (USA)	Sep 19, 2017	SCG Chemicals Co., Ltd.	13/518,751	Jun 22, 2012	Process for reducing the bromine index of a hydrocarbon	-	Jun 21, 2032
41	I609904 (Taiwan)	Jan 1, 2018	SCG Chemicals Co., Ltd.	105120175	Jun 27, 2016	Plasticizer composition	-	Jun 26, 2036
42	I620709 (Taiwan)	Apr 11, 2018	SCG Chemicals Co., Ltd.	102134589	Sep 25, 2013	Modification of layered double hydroxides	-	Sep 26, 2033 (PCT filing date Sep 27, 2013)
43	11201500993U (Singapore)	Jun 6, 2018	SCG Chemicals Co., Ltd.	11201500993U	Feb 9, 2015	Modification of layered double hydroxides	-	Sep 26, 2033 (PCT filing date Sep 27, 2013)
44	10,065,172 (USA)	Sep 4, 2018	SCG Chemicals Co., Ltd.	14/432,019	Mar 27, 2015	Modification of layered double hydroxides	-	Sep 26, 2033 (PCT filing date Sep 27, 2013)
45	6360832 (Japan)	Jun 29, 2018	SCG Chemicals Co., Ltd.	2015-534439	Mar 27, 2015	Modification of layered double hydroxides	-	Sep 26, 2033 (PCT filing date Sep 27, 2013)

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
46	2018/0354809 A1 (Japan)	Dec 13, 2018	SCG Chemicals Co., Ltd.	16/054,324	Mar 27, 2015	Modification of layered double hydroxides	-	Sep 26, 2033 (PCT filing date Sep 27, 2013)
47	2014800186210 (China)	Mar 16, 2018	SCG Chemicals Co., Ltd.	2014800186210	Sep 25, 2015	Process for converting paraffin to olefin and catalyst for use therein	-	Mar 27, 2034 (PCT filing date Mar 28, 2014)
48	6353527 (Japan)	Jun 15, 2018	SCG Chemicals Co., Ltd.	2016-520342	Dec 4, 2015	Catalyst for olefin polymerization, method for its preparation and use thereof	-	Dec 3, 2035
49	10,040,695B2 (USA)	Aug 7, 2018	SCG Chemicals Co., Ltd.	15/129,137	Sep 26, 2016	Ultra high surface area layered double hydroxides	-	Mar 23, 2035 (PCT filing date Mar 25, 2015)
50	2993163 (Germany)	Feb 21, 2018	SCG Chemicals Co., Ltd.	602014021085.6	Sep 5, 2014	Process for the separation of ethylbenzene	-	Sep 4, 2034
51	2993163 (France)	Feb 21, 2018	SCG Chemicals Co., Ltd.	14003073.5	Sep 5, 2014	Process for the separation of ethylbenzene	-	Sep 4, 2034
52	2993163 (Netherlands)	Feb 21, 2018	SCG Chemicals Co., Ltd.	14003073.5	Sep 5, 2014	Process for the separation of ethylbenzene	-	Sep 4, 2034
53	2993163 (Italy)	Feb 21, 2018	SCG Chemicals Co., Ltd.	502018000014208	Sep 5, 2014	Process for the separation of ethylbenzene	-	Sep 4, 2034



No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
54	10,143,997 (USA)	Dec 4, 2018	SCG Chemicals Co., Ltd.	15/524,026	May 3, 2017	Stabilized rhenium-based heterogeneous catalyst and use thereof	-	Aug 3, 2035 (PCT filing date Aug 5, 2015)
55	3152218 (France)	Dec 26, 2018	SCG Chemicals Co., Ltd.	15725660.3	Dec 31, 2016	Process for Synthesis of Indenes	-	Dec 30, 2036
56	3152218 (Germany)	Dec 26, 2018	SCG Chemicals Co., Ltd.	15725660.3	Dec 31, 2016	Process for Synthesis of Indenes	-	Dec 30, 2036
57	3152218 (Netherlands)	Dec 26, 2018	SCG Chemicals Co., Ltd.	15725660.3	Dec 31, 2016	Process for Synthesis of Indenes	-	Dec 30, 2036
58	3152218 (Norway)	Dec 26, 2018	SCG Chemicals Co., Ltd.	15725660.3	Dec 31, 2016	Process for Synthesis of Indenes	-	Dec 30, 2036
59	2014800351824 (China)	Feb 1, 2019	SCG Chemicals Co., Ltd.	2014800351824	Dec 18, 2015	Catalyst for olefin polymerization, method for its preparation and use thereof	-	May 19, 2034 (PCT filing date May 22, 2014)
60	1654228 (Taiwan)	Mar 21, 2019	SCG Chemicals Co., Ltd.	106142557	Dec 5, 2017	Plasticizer composition	-	Nov 12, 2037 (PCT filing date Nov 11, 2017)
61	31942 (Eurasia)	Mar 29, 2019	SCG Chemicals Co., Ltd.	201691938	Oct 25, 2016	High surface area layered double hydroxides	-	Mar 23, 2035 (PCT filing date)

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
								Mar 27, 2015)
62	11201700375Q (Singapore)	Mar 25, 2019	SCG Chemicals Co., Ltd.	11201700375Q	Jan 17, 2017	Stabilized rhenium-based heterogeneous catalyst and use thereof	-	Aug 3, 2035 (PCT filing date Aug 4, 2015)
63	10,221,259 (USA)	Mar 5, 2019	SCG Chemicals Co., Ltd.	15/541,663	Jun 5, 2017	Sio <sub>2</sub> -layered double hydroxide microspheres and their use as catalyst supports in ethylene polymerisation	-	Jan 4, 2036 (PCT filing date Jan 6, 2016)
64	313835 (India)	Jun 7, 2019	SCG Chemicals Co., Ltd.	201717006708	Feb 25, 2017	Process for the separation of ethylbenzene	-	Sep 3, 2035 (PCT filing date Sep 4, 2016)
65	6563457 (Japan)	Aug 21, 2019	SCG Chemicals Co., Ltd.	2017-201447	Oct 18, 2017	Process for converting paraffin to olefin and catalyst for use therein	-	Mar 27, 2034 (PCT filing date Mar 28, 2014)
66	170946A (Malaysia)	Sep 20, 2019	SCG Chemicals Co., Ltd.	2014701028	Apr 25, 2014	Polymer composition and cable spacer comprising the polymer composition	-	Apr 24, 2034
67	1670258 (Taiwan)	Sep 1, 2019	SCG Chemicals Co., Ltd.	104127863	Aug 26, 2015	Process for the separation of ethylbenzene	-	Aug 24, 2035
68	2794486	Sep 11, 2019	SCG Chemicals Co., Ltd.	602012063968.7	Jun 20, 2014	Modification of layered	-	Jun 19, 2034

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
	(Germany)					double hydroxides		
69	2794486 (Great Britain)	Sep 11, 2019	SCG Chemicals Co., Ltd.	12837660.5	Jun 20, 2014	Modification of layered double hydroxides	-	Jun 19, 2034
70	2794486 (Netherlands)	Sep 11, 2019	SCG Chemicals Co., Ltd.	12837660.5	Jun 20, 2014	Modification of layered double hydroxides	-	Jun 19, 2034
71	2794486 (Czech)	Sep 11, 2019	SCG Chemicals Co., Ltd.	12837660.5	Jun 20, 2014	Modification of layered double hydroxides	-	Jun 19, 2034
72	2794486 (Italy)	Sep 11, 2019	SCG Chemicals Co., Ltd.	12837660.5	Jun 20, 2014	Modification of layered double hydroxides	-	Jun 19, 2034
73	2794486 (France)	Sep 11, 2019	SCG Chemicals Co., Ltd.	12837660.5	Jun 20, 2014	Modification of layered double hydroxides	-	Jun 19, 2034
74	6596027 (Japan)	Oct 4, 2019	SCG Chemicals Co., Ltd.	2016-572311	Dec 8, 2016	Process for Synthesis of Indenes	-	May 30, 2036 (PCT filing date Jun 2, 2016)
75	6616782 (Japan)	Nov 12, 2019	SCG Chemicals Co., Ltd.	2016-559183	Mar 25, 2015	High surface area layered double hydroxides	-	Mar 24, 2035
76	10,479,743 (USA)	Nov 19, 2019	SCG Chemicals Co., Ltd.	15/506,363	Feb 24, 2017	Process for the separation of ethylbenzene	-	Sep 3, 2035 (PCT filing date Sep 4, 2015)
77	18697 (Vietnam)	Mar 5, 2018	SCG Chemicals Co., Ltd.	1-2008-03080	Dec 18, 2008	Method For Preparing A Catalyst Component For	-	Dec 17, 2028

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
						Ethylene Polymerization And Copolymerization		
78	102121026 (Korea)	Jun 11, 2020	SCG Chemicals Co., Ltd.	2015-7006890	Mar 18, 2015	Modification of layered double hydroxides	-	Sep 26, 2035 (PCT filing date Sep 28, 2015)
79	10,329,219B2 (USA)	Jun26, 2019	SCG Chemicals Co., Ltd.	14/782,457	Oct 5, 2015	Process for converting paraffin to olefin and catalyst for use therein		Mar 27, 2035 (PCT filing date Mar 28, 2015)
80	10,329,220B2 (USA)	Jun 25, 2019	SCG Chemicals Co., Ltd.	15/616,975	Jun 8, 2017	Process for converting paraffin to olefin and catalyst for use therein	-	Mar 27, 2035
81	9556286 (USA)	Jan 31, 2017	SCG Chemicals Co., Ltd.	14/896,555	May 22, 2014	Catalyst For Olefin Polymerization, Method For Its Preparation And Use Thereof	-	May 21, 2034
82	2016/06526 (South Africa)	Mar 25, 2020	SCG Chemicals Co., Ltd.	2016/06526	Sep 21, 2016	High surface area layered double hydroxides	-	Mar 24, 2035 (PCT filing date Mar 25, 2015)
83	3122687 (Great Britain)	May 22, 2019	SCG Chemicals Co., Ltd.	15719621.3	Mar 24, 2015	High surface area layered double hydroxides	-	Mar 24, 2035

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
84	3122687 (Italy)	May 22, 2019	SCG Chemicals Co., Ltd.	502019000038415	Mar 24, 2015	High surface area layered double hydroxides	-	Mar 24, 2035
85	3122687 (Netherlands)	May 22, 2019	SCG Chemicals Co., Ltd.	15719621.3	Mar 24, 2015	High surface area layered double hydroxides	-	Mar 24, 2035
86	106488901 (China)	Jun 12, 2020	SCG Chemicals Co., Ltd.	201580030543.0	Dec 8, 2016	Process for synthesis of indenenes	-	Jun 1, 2035 (PCT filing date Jun 2, 2015)
87	3152218 (Great Britain)	Dec 26, 2018	SCG Chemicals Co., Ltd.	1410202.4	Jun 9, 2014	Process for Synthesis of Indenes	-	Jun 8, 2034
88	6629842 (Japan)	Dec 13, 2019	SCG Chemicals Co., Ltd.	2017-512705	Mar 3, 2017	Process for the separation of ethylbenzene	-	Sep 3, 2035 (PCT filing date Sep 4, 2015)
89	ZL 2015800465373.4 (China)	Jun 9, 2020	SCG Chemicals Co., Ltd.	201580046537.4	Feb 28, 2017	Process for the separation of ethylbenzene	-	Sep 3, 2035 (PCT filing date Sep 4, 2015)
90	2673663 (Russia)	Nov 29, 2018	SCG Chemicals Co., Ltd.	2017111205	Apr 4, 2017	Process for the separation of ethylbenzene	-	Sep 3, 2035 (PCT filing date Sep 4, 2015)
91	6758289 (Japan)	Sep 3, 2020	SCG Chemicals Co., Ltd.	2017-525809	May 12, 2017	Catalyst	-	Nov 12, 2035 (PCT filing date Nov 13, 2015)

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
92	6695341 (Japan)	Apr 23, 2020	SCG Chemicals Co., Ltd.	2017-535735A	Jul 4, 2017	SiO <sub>2</sub> layered double hydroxide microspheres and their use as catalyst supports for ethylene polymerization	-	Jan 5, 2036 (PCT filing date Jan 6, 2016)
93	ZL 201680005130.1 (China)	Jul 21, 2020	SCG Chemicals Co., Ltd.	201680005130.1	Jul 6, 2017	SiO <sub>2</sub> layered double hydroxide microspheres and their use as catalyst supports for ethylene polymerization	-	Jan 5, 2036 (PCT filing date Jan 6, 2016)
94	11201705079R (Singapore)	Jun 9, 2018	SCG Chemicals Co., Ltd.	11201705079R	Jan 6, 2016	SiO <sub>2</sub> layered double hydroxide microspheres and their use as catalyst supports for ethylene polymerization	-	Jan 5, 2036 (PCT filing date Jan 6, 2016)
95	6739435 (Japan)	Jul 27, 2020	SCG Chemicals Co., Ltd.	2017-535733	Jul 6, 2017	SiO <sub>2</sub> -Layered double hydroxide microspheres and methods of making them	-	Jan 5, 2036 (PCT filing date Jan 6, 2016)
96	10,773,246	Sep 15, 2020	SCG Chemicals Co., Ltd.	15/541,655	Jul 6, 2017	SiO <sub>2</sub> -Layered double	-	Jan 5, 2036

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
	(USA)					hydroxide microspheres and methods of making them		(PCT filing date Jan 6, 2016)
97	2016800304841 (China)	May 19, 2020	SCG Chemicals Co., Ltd.	2016800304841	Nov 24, 2017	Plasticizer composition	-	Jun 28, 2036 (PCT filing date Jun 29, 2016)
98	6659740 (Japan)	Feb 10, 2020	SCG Chemicals Co., Ltd.	2017-568442	Dec 28, 2017	Plasticizer composition	-	Jun 28, 2036 (PCT filing date Jun 29, 2016)
99	10-2104480 (Korea)	Apr 20, 2020	SCG Chemicals Co., Ltd.	2017-7036643	Dec 19, 2017	Plasticizer composition	-	Jun 28, 2036 (PCT filing date Jun 29, 2016)
100	10,538,644 (USA)	Jan 21, 2020	SCG Chemicals Co., Ltd.	15/567,993	Oct 20, 2017	Plasticizer composition	-	Jun 28, 2036 (PCT filing date Jun 29, 2016)
101	11201710650S (Singapore)	Feb 26, 2020	SCG Chemicals Co., Ltd.	11201710650S	Jul 15, 2016	Inorganic porous framework - layered double hydroxide core-shell materials	-	Jul 14, 2036
102	11201809887W	Apr 15, 2020	SCG Chemicals Co., Ltd.	11201809887W	Nov 7, 2018	Unsymmetrical Metallocene	-	Nov 6, 2038

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
	(Singapore)					Catalysts And Uses Thereof		
103	3455231B1 (European)	Sep 30, 2020	SCG Chemicals Co., Ltd.	17724406.8	May 10, 2017	Unsymmetrical Metallocene Catalysts And Uses Thereof	-	May 10, 2037
104	3455231B1 (Germany)	Sep 30, 2020	SCG Chemicals Co., Ltd.	17724406.8	May 10, 2017	Unsymmetrical Metallocene Catalysts And Uses Thereof	-	May 10, 2037
105	3455231B1 (Sweden)	Sep 30, 2020	SCG Chemicals Co., Ltd.	17724406.8	May 10, 2017	Unsymmetrical Metallocene Catalysts And Uses Thereof	-	May 10, 2037
106	3318544 (European)	Mar 18, 2020	SCG Chemicals Co., Ltd.	16197563.6	Nov 7, 2016	Process for the preparation of polymerized polyethylene wax	-	Nov 6, 2036
107	สิทธิบัตร 3318544 (Sweden)	Mar 18, 2020	SCG Chemicals Co., Ltd.	16197563.6	Nov 7, 2016	Process for the preparation of polymerized polyethylene wax	-	Nov 6, 2036
108	สิทธิบัตร 3318544 (Germany)	Mar 18, 2020	SCG Chemicals Co., Ltd.	602016031913.6	Nov 7, 2016	Process for the preparation of polymerized polyethylene wax	-	Nov 6, 2036
109	48910	Mar 28, 2016	SCG Chemicals Co., Ltd. and Kasetsart University	1102000372	Feb 4, 2011	-	Holder for plant growing	Feb 3, 2021
110	Petty Patent 10718	Nov 11, 2015	SCG Chemicals Co., Ltd. and RIL 1996 Co., Ltd.	1403000584	Jun 11, 2014	Process for the sludge management using earthworms	-	Jun 10, 2024



No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
111	74485	Jan 29, 2020	SCG Chemicals Co., Ltd. and Khon Kaen University and Chiang Mai University and Prince of Songkla University	1702003849	Sep 9, 2017	-	Locking Cover for Invasive Surgery Camera	Sep 25, 2027
112	Petty Patent 14173	Jul 18, 2018	SCG Chemicals Co., Ltd. and Khon Kaen University and Chiang Mai University and Prince of Songkla University	1703001899	Sep 26, 2017	Camera Drape	-	Sep 24, 2027
113	104609450B (China)	Apr 20, 2016	SCG Chemicals Co., Ltd. and Beijing University of Chemical Technology and Tech Layer Co. Ltd. and University of Oxford	2014105284565	Oct 9, 2014	Process and complete industrial installation for producing highly dispersed magnalium hydrotalcite powder bodies	-	Oct 6, 2034
114	Petty Patent 16533	Jul 24, 2020	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	1903001470	Jun 5, 2019	TRASH TRAPS	-	Jun 4, 2029
115	3272821B1 (Belgium)	Aug 29, 2018	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16180302.8	Jul 20, 2016	Emulsion and use thereof for coating a textile	-	Jul 18, 2036
116	3272821B1 (Spain)	Aug 29, 2018	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16180302.8	Jul 20, 2016	Emulsion and use thereof for coating a textile	-	Jul 18, 2036
117	3272821B1 (Portugal)	Aug 29, 2018	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16180302.8	Jul 20, 2016	Emulsion and use thereof for coating a textile	-	Jul 18, 2036
118	3272821B1	Aug 29, 2018	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16180302.8	Jul 20, 2016	Emulsion and use thereof for coating a textile	-	Jul 18, 2036

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
	(Turkey)							
119	3272821B1 (France)	Aug 29, 2018	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16180302.8	Jul 20, 2016	Emulsion and use thereof for coating a textile	-	Jul 18, 2036
120	3272821B1 (Great Britain)	Aug 29, 2018	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16180302.8	Jul 20, 2016	Emulsion and use thereof for coating a textile	-	Jul 18, 2036
121	3272821B1 (Germany)	Aug 29, 2018	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16180302.8	Jul 20, 2016	Emulsion and use thereof for coating a textile	-	Jul 18, 2036
122	3272821B1 (Italy)	Aug 29, 2018	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16180302.8	Jul 20, 2016	Emulsion and use thereof for coating a textile	-	Jul 18, 2036
123	3293210B1 (Germany)	Mar 6, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	602016010626.4	Sep 12, 2016	Multimodal polyethylene film	-	Sep 11, 2036
124	3293210B1 (France)	Mar 6, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188335	Sep 12, 2016	Multimodal polyethylene film	-	Sep 11, 2036
125	3293210B1 (Turkey)	Mar 6, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188335	Sep 12, 2016	Multimodal polyethylene film	-	Sep 11, 2036
126	3293210B1 (Spain)	Mar 6, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188335	Sep 12, 2016	Multimodal polyethylene film	-	Sep 11, 2036
127	3293210B1 (Portugal)	Mar 6, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188335	Sep 12, 2016	Multimodal polyethylene film	-	Sep 11, 2036
128	3293210B1 (Hungary)	Mar 6, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188335	Sep 12, 2016	Multimodal polyethylene film	-	Sep 11, 2036
129	3293210B1	Mar 6, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188335	Sep 12, 2016	Multimodal polyethylene film	-	Sep 11, 2036

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	(Italy)		Polyethylene Co., Ltd.					
130	3293210B1 (Great Britain)	Mar 6, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188335	Sep 12, 2016	Multimodal polyethylene film	-	Sep 11, 2036
131	3293211B1 (Germany)	Jun 26, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	602016015824.8	Sep 12, 2016	Multimodal polyethylene screw cap	-	Sep 11, 2036
132	3293211 (Great Britain)	Jun 26, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188337.6	Sep 12, 2016	Multimodal polyethylene screw cap	-	Sep 11, 2036
133	3293211 (France)	Jun 26, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188337.6	Sep 12, 2016	Multimodal polyethylene screw cap	-	Sep 11, 2036
134	3293211 (Italy)	Jun 26, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	502019000061668	Sep 12, 2016	Multimodal polyethylene screw cap	-	Sep 11, 2036
135	3293211 (Spain)	Jun 26, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188337.6	Sep 12, 2016	Multimodal polyethylene screw cap	-	Sep 11, 2036
136	3293211 (Turkey)	Jun 26, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	2019/13075T4	Sep 12, 2016	Multimodal polyethylene screw cap	-	Sep 11, 2036
137	3293211 (Hungary)	Jun 26, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188337.6	Sep 12, 2016	Multimodal polyethylene screw cap	-	Sep 11, 2036
138	3293211 (Portugal)	Jun 26, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188337.6	Sep 12, 2016	Multimodal polyethylene screw cap	-	Sep 11, 2036
139	3293207 (Spain)	Aug 7, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188322.8	Sep 12, 2016	Multimodal polyethylene pipe	-	Sep 11, 2036



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140	3293207 (Turkey)	Aug 7, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188322.8	Sep 12, 2016	Multimodal polyethylene pipe	-	Sep 11, 2036
141	3293207 (Hungary)	Aug 7, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188322.8	Sep 12, 2016	Multimodal polyethylene pipe	-	Sep 11, 2036
142	3293207 (Portugal)	Aug 7, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188322.8	Sep 12, 2016	Multimodal polyethylene pipe	-	Sep 11, 2036
143	3293207 (Germany)	Aug 7, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188322.8	Sep 12, 2016	Multimodal polyethylene pipe	-	Sep 11, 2036
144	3293207 (France)	Aug 7, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188322.8	Sep 12, 2016	Multimodal polyethylene pipe	-	Sep 11, 2036
145	3293207 (Italy)	Aug 7, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188322.8	Sep 12, 2016	Multimodal polyethylene pipe	-	Sep 11, 2036
146	3293207 (Great Britain)	Aug 7, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188322.8	Sep 12, 2016	Multimodal polyethylene pipe	-	Sep 11, 2036
147	3293213 (Germany)	Aug 14, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	602016018482.6	Sep 12, 2016	Multimodal polyethylene container	-	Sep 11, 2036
148	3293213 (Spain)	Aug 14, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188343.4	Sep 12, 2016	Multimodal polyethylene container	-	Sep 11, 2036
149	3293213 (Turkey)	Aug 14, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188343.4	Sep 12, 2016	Multimodal polyethylene container	-	Sep 11, 2036
150	3293213	Aug 14, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188343.4	Sep 12, 2016	Multimodal polyethylene container	-	Sep 11, 2036



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	(Hungary)		Polyethylene Co., Ltd.			container		
151	3293213 (Portugal)	Aug 14, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188343.4	Sep 12, 2016	Multimodal polyethylene container	-	Sep 11, 2036
152	3293213 (France)	Aug 14, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188343.4	Sep 12, 2016	Multimodal polyethylene container	-	Sep 11, 2036
153	3293213 (Italy)	Aug 14, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188343.4	Sep 12, 2016	Multimodal polyethylene container	-	Sep 11, 2036
154	3293213 (Great Britain)	Aug 14, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188343.4	Sep 12, 2016	Multimodal polyethylene container	-	Sep 11, 2036
155	3293209 (France)	Aug 14, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188329.3	Sep 12, 2016	Multimodal polyethylene thin film	-	Sep 11, 2036
156	3293209 (Germany)	Aug 14, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	602016018481.8	Sep 12, 2016	Multimodal polyethylene thin film	-	Sep 11, 2036
157	3293209 (Turkey)	Aug 14, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188329.3	Sep 12, 2016	Multimodal polyethylene thin film	-	Sep 11, 2036
158	3293209 (Spain)	Aug 14, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188329.3	Sep 12, 2016	Multimodal polyethylene thin film	-	Sep 11, 2036
159	3293209 (Portugal)	Aug 14, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188329.3	Sep 12, 2016	Multimodal polyethylene thin film	-	Sep 11, 2036
160	3293209 (Austria)	Aug 14, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188329.3	Sep 12, 2016	Multimodal polyethylene thin film	-	Sep 11, 2036

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
161	3293209 (Hungary)	Aug 14, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188329.3	Sep 12, 2016	Multimodal polyethylene thin film	-	Sep 11, 2036
162	3293205 (Spain)	Aug 28, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188318.6	Sep 12, 2016	Reactor system for multimodal polyethylene polymerization	-	Sep 11, 2036
163	3293205 (Turkey)	Aug 28, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188318.6	Sep 12, 2016	Reactor system for multimodal polyethylene polymerization	-	Sep 11, 2036
164	3293205 (Hungary)	Aug 28, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	E047204	Sep 12, 2016	Reactor system for multimodal polyethylene polymerization	-	Sep 11, 2036
165	3293205 (Portugal)	Aug 28, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188318.6	Sep 12, 2016	Reactor system for multimodal polyethylene polymerization	-	Sep 11, 2036
166	3293205 (Austria)	Aug 28, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188318.6	Sep 12, 2016	Reactor system for multimodal polyethylene polymerization	-	Sep 11, 2036
167	3293206 (Germany)	Oct 23, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188319.4	Sep 12, 2016	Multimodal polyethylene pipe	-	Sep 11, 2036
168	3293206 (Spain)	Oct 23, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188319.4	Sep 12, 2016	Multimodal polyethylene pipe	-	Sep 11, 2036

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169	3293206 (Turkey)	Oct 23, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188319.4	Sep 12, 2016	Multimodal polyethylene pipe	-	Sep 11, 2036
170	3293206 (Hungary)	Oct 23, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188319.4	Sep 12, 2016	Multimodal polyethylene pipe	-	Sep 11, 2036
171	3293206 (Portugal)	Oct 23, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188319.4	Sep 12, 2016	Multimodal polyethylene pipe	-	Sep 11, 2036
172	3293206 (France)	Oct 23, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188319.4	Sep 12, 2016	Multimodal polyethylene pipe	-	Sep 11, 2036
173	3293206 (Italy)	Oct 23, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	502019000107475	Sep 12, 2016	Multimodal polyethylene pipe	-	Sep 11, 2036
174	3293206 (Great Britain)	Oct 23, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188319.4	Sep 12, 2016	Multimodal polyethylene pipe	-	Sep 11, 2036
175	3293214 (Great Britain)	Dec 25, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188347.5	Sep 12, 2016	High performances multimodal ultra high molecular weight polyethylene	-	Sep 11, 2036
176	3293214 (Poland)	Dec 25, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188347.5	Sep 12, 2016	High performances multimodal ultra high molecular weight polyethylene	-	Sep 11, 2036



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177	3293214 (France)	Dec 25, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188347.5	Sep 12, 2016	High performances multimodal ultra high molecular weight polyethylene	-	Sep 11, 2036
178	3293214 (Germany)	Dec 25, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	16188347.5	Sep 12, 2016	High performances multimodal ultra high molecular weight polyethylene	-	Sep 11, 2036
179	3510086 (Netherlands)	Aug 19, 2020	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	17764410.1	Sep 11, 2017	High performances multimodal ultra high molecular weight polyethylene	-	Sep 10, 2038
180	3510086 (Germany)	Aug 19, 2020	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	17764410.1	Sep 11, 2017	High performances multimodal ultra high molecular weight polyethylene	-	Sep 10, 2038
181	2017/05981 (South Africa)	Sep 26, 2018	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	2017/05981	Sep 4, 2017	Polymer Composition For Container Closures	-	Aug 31, 2037 (PCT filing date Sep 1, 2017)



No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
182	3293214 (Italy)	Dec 25, 2019	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	502020000025867	Sep 12, 2016	High Performances Multimodal Ultra High Molecular Weight Polyethylene	-	Sep 11, 2036
183	3510054 (Germany)	Nov 4, 2020	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	17768063.4	Sep 8, 2017	Multimodal Polyethylene Screw Cap	-	Sep 7, 2037
184	3510054 (Austria)	Nov 4, 2020	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	17768063.4	Sep 8, 2017	Multimodal Polyethylene Screw Cap	-	Sep 7, 2037
185	3510054 (European)	Nov 4, 2020	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	17768063.4	Sep 8, 2017	Multimodal Polyethylene Screw Cap	-	Sep 7, 2037
186	3510053 (Germany)	Jul 29, 2020	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	17767780.4	Sep 8, 2017	Multimodal Polyethylene Composition And A Film Comprising The Same	-	Sep 7, 2037
187	3510053 (France)	Jul 29, 2020	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	17767780.4	Sep 8, 2017	Multimodal Polyethylene Composition And A Film Comprising The Same	-	Sep 7, 2037
188	2722148 (Korea)	May 23, 2020	SCG Chemicals Co., Ltd. and Thai Polyethylene Co., Ltd.	2019-7010004	Apr 8, 2019	Multimodal Polyethylene Pipe	-	Sep 6, 2037 (PCT filing date Sep 7, 2017)
189	2670962 (Russia)	Oct 26, 2018	SCG Chemicals Co., Ltd. and GTC Technology US, LLC	2017111206	Apr 4, 2017	Separation process for C8 aromatics mixture	-	Sep 4, 2034 (PCT filing date Sep 5, 2014)

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
190	2670963 (Russia)	Oct 26, 2018	SCG Chemicals Co., Ltd. and GTC Technology US, LLC	2017111207	Apr 4, 2017	Separation process for C8 aromatics mixture	-	Sep 4, 2034 (PCT filing date Sep 5, 2014)
191	1670259 (Taiwan)	Sep 1, 2019	SCG Chemicals Co., Ltd. and GTC Technology US, LLC	104127868	Aug 26, 2015	Separation process for C8 aromatics mixture	-	Aug 24, 2035
192	1675825 (Taiwan)	Nov 1, 2019	SCG Chemicals Co., Ltd. and GTC Technology US, LLC	104127865	Aug 26, 2015	Process for the enhanced separation of ethylbenzene	-	Aug 24, 2035
193	329995 (India)	Jan 22, 2020	SCG Chemicals Co., Ltd. and GTC Technology US, LLC	201717007563	Mar 3, 2017	Separation process for C8 aromatics mixture	-	Sep 4, 2034 (PCT filing date Sep 5, 2014)
194	10,427,994B2 (USA)	Oct 1, 2019	SCG Chemicals Co., Ltd. and GTC Technology US, LLC	15/505,593	Feb 21, 2017	Separation process for C8 aromatics mixture	-	Sep 4, 2034 (PCT filing date Sep 5, 2014)
195	6735752 (Japan)	Jul 16, 2020	SCG Chemicals Co., Ltd. and GTC Technology US, LLC	2017-533157A	Mar 3, 2017	Process for the enhanced separation of ethylbenzene	-	Sep 4, 2034 (PCT filing date Sep 5, 2014)
196	ZL2014800816111 (China)	Jul 31, 2020	SCG Chemicals Co., Ltd. and GTC Technology US, LLC	201480081611.1	Feb 28, 2017	Process for the enhanced separation of ethylbenzene	-	Sep 4, 2034 (PCT filing date Sep 5, 2014)
197	323494 (India)	Oct 23, 2019	SCG Chemicals Co., Ltd. and GTC Technology US, LLC	201717007569	Mar 3, 2017	Process for the enhanced separation of ethylbenzene	-	Sep 4, 2034 (PCT filing date Sep 5, 2014)
198	10,435,340 B2	Oct 8, 2019	SCG Chemicals Co., Ltd. and	15/505,590	Feb 21, 2017	Process for the enhanced	-	Sep 4, 2034

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	(USA)		GTC Technology US, LLC			separation of ethylbenzene		(PCT filing date Sep 5, 2014)
199	10,647,641 (USA)	May 12, 2020	SCG Chemicals Co., Ltd. and GTC Technology US, LLC	16/516,656	Jul 19, 2019	Separation process for C8 aromatics mixture	-	Jul 19, 2039
200	3176213B1 (Germany)	Apr 24, 2019	SCG Chemicals Co., Ltd. and Mitsui Chemicals Inc.	602015028782.7	Dec 3, 2015	Ethylene copolymer composition	-	Nov 30, 2035
201	3176213B1 (France)	Apr 24, 2019	SCG Chemicals Co., Ltd. and Mitsui Chemicals Inc.	15197727.9	Dec 3, 2015	Ethylene copolymer composition	-	Nov 30, 2035
202	3176213B1 (Great Britain)	Apr 24, 2019	SCG Chemicals Co., Ltd. and Mitsui Chemicals Inc.	15197727.9	Dec 3, 2015	Ethylene copolymer composition	-	Nov 30, 2035
203	3176213B1 (Marcedonia)	Apr 24, 2019	SCG Chemicals Co., Ltd. and Mitsui Chemicals Inc.	MK/P/2019/609	Dec 3, 2015	Ethylene copolymer composition	-	Nov 30, 2035
204	10604643 (USA)	Mar 31, 2020	SCG Chemicals Co., Ltd. and Mitsui Chemicals Inc.	15/780,645	Nov 15, 2016	Ethylene copolymer composition	-	Nov 14, 2036
205	10201807201W (Singapore)	Aug 22, 2019	SCG Chemicals Co., Ltd. and INC SQUARE., CO., LTD.	10201807201W	Aug 24, 2018	Solid-Liquid separator	-	Aug 23, 2038
206	10201807199W (Singapore)	Aug 22, 2019	SCG Chemicals Co., Ltd. and INC SQUARE., CO., LTD.	10201807199W	Aug 24, 2018	Waste treatment device	-	Aug 23, 2038
207	10201807200Q	Jan 6, 2020	SCG Chemicals Co., Ltd. and	10201807200Q	Aug 24, 2018	Disinfection apparatus and	-	Aug 23, 2038

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	(Singapore)		INC SQUARE., CO., LTD.			method of treating waste		
208	28126	Jun 30, 2010	Thai Polyethylene Co., Ltd.	0101003359	Aug 21, 2001	Titanium catalyst composition for ethylene polymerization and process using thereof	-	Aug 20, 2021
209	3360918 (European)	Nov 4, 2020	Thai Polyethylene Co., Ltd.	17155580.8	Feb 10, 2017	Polymer Nanocomposite Masterbatch, Polymer Nanocomposite And Methods For Preparation Thereof	-	Feb 9, 2037
210	10201903296W (Singapore)	Oct 6, 2020	Thai Polyethylene Co., Ltd.	10201903296W	Apr 12, 2019	A Polypropylene Composition for Retort Packaging Application	-	Apr 11, 2039
211	55522	Jun 20, 2017	Nawaplastic Industries Co., Ltd.	1502000277	Jan 30, 2015	-	15°Elbow square	Jan 29, 2025
212	55523	Jun 20, 2017	Nawaplastic Industries Co., Ltd.	1502000278	Jan 30, 2015	-	30°Elbow square	Jan 29, 2025
213	55524	Jun 20, 2017	Nawaplastic Industries Co., Ltd.	1502000279	Jan 30, 2015	-	90°Elbow square	Jan 29, 2025
214	55525	Jun 20, 2017	Nawaplastic Industries Co., Ltd.	1502000280	Jan 30, 2015	-	Connect square	Jan 29, 2025
215	57200	Sep 5, 2017	Nawaplastic Industries Co., Ltd.	1402000197	Jan 31, 2014	-	Casement frame	Jan 30, 2024
216	57201	Sep 5, 2017	Nawaplastic Industries Co., Ltd.	1402000198	Jan 31, 2014	-	Sliding frame	Jan 30, 2024
217	57202	Sep 5, 2017	Nawaplastic Industries Co., Ltd.	1402000199	Jan 31, 2014	-	Casement frame and interior trim	Jan 30, 2024
218	57203	Sep 5, 2017	Nawaplastic Industries Co., Ltd.	1402000200	Jan 31, 2014	-	Casement frame with	Jan 30, 2024

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							extension adaptor and interior trim	
219	57204	Sep 5, 2017	Nawaplastic Industries Co., Ltd.	1402000201	Jan 31, 2014	-	Sliding frame with interior trim	Jan 30, 2024
220	57205	Sep 5, 2017	Nawaplastic Industries Co., Ltd.	1402000202	Jan 31, 2014	-	Sliding frame with extension adapter and interior trim	Jan 30, 2024
221	59102	Nov 21, 2017	Nawaplastic Industries Co., Ltd.	1502000281	Jan 30, 2015	-	Adaptor for downspout	Jan 29, 2025
222	62069	Apr 20, 2018	Nawaplastic Industries Co., Ltd.	1402002514	Sep 5, 2014	-	End Cap for shading	Sep 4, 2024
223	59861	Jan 8, 2018	Nawaplastic Industries Co., Ltd.	1402002516	Sep 5, 2014	-	Shading system	Sep 4, 2024
224	59862	Jan 8, 2018	Nawaplastic Industries Co., Ltd.	1402002517	Sep 5, 2014	-	Shading Clip Line	Sep 4, 2024
225	62938	Jun 12, 2018	Nawaplastic Industries Co., Ltd.	1502000282	Jan 30, 2015	-	Hidden clip	Jan 29, 2025
226	65636	Oct 17, 2018	Nawaplastic Industries Co., Ltd.	1502002935	Aug 27, 2015	-	Corner Square Tooling	Aug 26, 2025
227	60359	Jan 30, 2018	Nawaplastic Industries Co., Ltd.	1502002937	Aug 27, 2015	-	Smart Frame with installation clip	Aug 26, 2025
228	60360	Jan 30, 2018	Nawaplastic Industries Co., Ltd.	1502002936	Aug 27, 2015	-	Smart Frame with installation clip	Aug 26, 2025
229	60356	Jan 30, 2018	Nawaplastic Industries Co., Ltd.	1502002939	Aug 27, 2015	-	Threshold System	Aug 26, 2025
230	60357	Jan 30, 2018	Nawaplastic Industries Co., Ltd.	1502002940	Aug 27, 2015	-	Threshold System	Aug 26, 2025
231	60358	Jan 30, 2018	Nawaplastic Industries Co., Ltd.	1502002938	Aug 27, 2015	-	Insect Screen with Security grill	Aug 26, 2025
232	64153	Aug 10, 2018	Nawaplastic Industries Co., Ltd.	1502003693	Oct 26, 2015	-	Door Z Lock	Oct 25, 2025

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233	64154	Aug 10, 2018	Nawaplastic Industries Co., Ltd.	1502003694	Oct 26, 2015	-	Window Z Lock	Oct 25, 2025
234	64155	Aug 10, 2018	Nawaplastic Industries Co., Ltd.	1502003695	Oct 26, 2015	-	Window Z Lock	Oct 25, 2025
235	64156	Aug 10, 2018	Nawaplastic Industries Co., Ltd.	1502003696	Oct 26, 2015	-	Door Z Lock	Oct 25, 2025
236	65040	Sep 20 2018	Nawaplastic Industries Co., Ltd.	1502002941	Aug 27, 2015	-	Threshold System	Aug 26 2025
237	71388	Sep 5, 2019	Nawaplastic Industries Co., Ltd.	1502000276	Jan 30, 2015	-	Square downspout	Jan 29, 2025
238	71939	Oct 8, 2019	Nawaplastic Industries Co., Ltd.	1702000760	Mar 8, 2017	-	Rain Gutter	Mar 5, 2027
239	72109	Oct 18, 2019	Nawaplastic Industries Co., Ltd.	1702000466	Feb 9, 2015	-	PVC Sound Barrier	Feb 5, 2027
240	73175	Dec 13, 2019	Nawaplastic Industries Co., Ltd.	1702000465	Feb 9, 2017	-	PVC Sound Barrier	Feb 5, 2027
241	62421	May 11, 2018	Nawaplastic Industries Co., Ltd.	1502003340	Sep 29, 2015	-	Flashing socket	Sep 26, 2025
242	62423	May 11, 2018	Nawaplastic Industries Co., Ltd.	1502003341	Sep 29, 2015	-	Flashing socket	Sep 26, 2025
243	74375	Feb 12, 2020	Nawaplastic Industries Co., Ltd.	1702000767	Mar 8, 2017	-	Rain Chain Gutter	Mar 7, 2027
244	74376	Feb 12, 2020	Nawaplastic Industries Co., Ltd.	1702000768	Mar 8, 2017	-	Rain Chain Gutter	Mar 7, 2027
245	79677	Nov 6, 2020	Nawaplastic Industries Co., Ltd.	1702001528	May 5, 2017	-	Hydroponic Gully	May 4, 2027
246	79676	Nov 6, 2020	Nawaplastic Industries Co., Ltd.	1702001527	May 5, 2017	-	Hydroponic Gully	May 4, 2027
247	52998	Dec 22, 2016	Nawaplastic Industries Co., Ltd.	1402002979	Oct 8, 2014	-	Smart 30° hanger set	Oct 7, 2024
248	52999	Dec 22, 2016	Nawaplastic Industries Co., Ltd.	1402002980	Oct 8, 2014	-	Smart 90° hanger set	Oct 7, 2024
249	53000	Dec 22, 2016	Nawaplastic Industries Co., Ltd.	1402002981	Oct 8, 2014	-	Smart shim plate	Oct 7, 2024
250	57195	Sep 5, 2017	Nawaplastic Industries Co., Ltd.	1402000203	31 Jan, 2014	-	Rain gutter	Jan 30, 2024
251	57196	Sep 5, 2017	Nawaplastic Industries Co., Ltd.	1402000204	31 Jan, 2014	-	Rain gutter	Jan 30, 2024
252	57197	Sep 5, 2017	Nawaplastic Industries Co., Ltd.	1402000206	31 Jan, 2014	-	Rain gutter	Jan 30, 2024

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253	57198	Sep 5, 2017	Nawaplastic Industries Co., Ltd.	1402000207	31 Jan, 2014	-	Rain gutter	Jan 30, 2024
254	59898	Jan 9, 2018	Nawaplastic Industries Co., Ltd.	1402002977	Oct 8, 2014	-	Rain gutter	Oct 7, 2024
255	59899	Jan 9, 2018	Nawaplastic Industries Co., Ltd.	1402002978	Oct 8, 2014	-	End cap for rain gutter	Oct 7, 2024
256	59900	Jan 9, 2018	Nawaplastic Industries Co., Ltd.	1402002982	Oct 8, 2014	-	Inside corner	Oct 7, 2024
257	59901	Jan 9, 2018	Nawaplastic Industries Co., Ltd.	1402002983	Oct 8, 2014	-	Outside corner	Oct 7, 2024
258	59902	Jan 9, 2018	Nawaplastic Industries Co., Ltd.	1402002984	Oct 8, 2014	-	Drop outlet	Oct 7, 2024
259	59903	Jan 9, 2018	Nawaplastic Industries Co., Ltd.	1402002985	Oct 8, 2014	-	Joiner	Oct 7, 2024
260	59904	Jan 9, 2018	Nawaplastic Industries Co., Ltd.	1402002986	Oct 8, 2014	-	Connector	Oct 7, 2024
261	Petty Patent 9500	Feb 5, 2015	Nawaplastic Industries Co., Ltd.	1403000069	Jan 31, 2014	Frame for fast installation	-	Jan 30, 2024
262	Petty Patent 10795	Nov 26, 2015	Nawaplastic Industries Co., Ltd.	1403001034	Sep 5, 2014	Lathing system	-	Sep 4, 2024
263	Petty Patent 11343	Apr 4, 2016	Nawaplastic Industries Co., Ltd.	1503000102	Jan 30, 2015	Rain gutter system	-	Jan 29, 2025
264	Petty Patent 11417	Apr 25, 2016	Nawaplastic Industries Co., Ltd.	1403000501	May 23, 2014	PVC composition	-	May 22, 2024
265	Petty Patent 13423	Jan 5, 2018	Nawaplastic Industries Co., Ltd.	1603001707	Sep 8, 2016	Frame assembly and method of installing the same	-	Sep 7, 2026
266	Petty Patent 13891	May 28, 2018	Nawaplastic Industries Co., Ltd.	1703002412	Dec 1, 2017	PVC-Brass Fitting	-	Nov 30, 2027
267	Petty Patent 11978	Sep 29, 2016	Nawaplastic Industries Co., Ltd.	1503001613	Sep 29, 2015	Flashing socket	-	Sep 26, 2025

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
268	Petty Patent 16127	Apr 10, 2020	Nawaplastic Industries Co., Ltd.	1703000205	Feb 9, 2017	PVC Sound Barrier	-	Feb 8, 2027
269	Petty Patent 15805	Jan 8, 2020	Nawaplastic Industries Co., Ltd.	1703000768	May 5, 2017	Hydroponic	-	May 4, 2027
270	Petty Patent 2392	Jul 27, 2020	Nawaplastic Industries Co., Ltd.	2-2016-00031	Jan 29, 2016	Downspout Assembly	-	Jan 28, 2026
271	54709	Apr 21, 2017	Nawaplastic Industries Co., Ltd.	1401006089	Oct 8, 2014	Rain gutter system	-	Oct 6, 2034
272	61035	Feb 27, 2018	Nawaplastic Industries Co., Ltd. and The Nawaplastic Industries (Saraburi) Co., Ltd.	1602002942	Aug 5, 2016	-	Precast electrical box	Aug 4, 2026
273	61036	Feb 27, 2018	Nawaplastic Industries Co., Ltd. and The Nawaplastic Industries (Saraburi) Co., Ltd.	1602002943	Aug 5, 2016	-	Precast electrical box	Aug 4, 2026
274	61034	Feb 27, 2018	Nawaplastic Industries Co., Ltd. and The Nawaplastic Industries (Saraburi) Co., Ltd.	1602002944	Aug 5, 2016	-	Precast electrical box	Aug 4, 2026
275	61033	Feb 27, 2018	Nawaplastic Industries Co., Ltd. and The Nawaplastic Industries (Saraburi) Co., Ltd.	1602002945	Aug 5, 2016	-	Precast electrical box	Aug 4, 2026
276	67420	Jan 14, 2019	Nawaplastic Industries Co., Ltd. and The Nawaplastic Industries (Saraburi) Co., Ltd.	1602003566	Sep 16, 2016	-	Installation Clip Railing	Sep 15, 2026



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277	67421	Jan 14, 2019	Nawaplastic Industries Co., Ltd. and The Nawaplastic Industries (Saraburi) Co., Ltd.	1602003568	Sep 16, 2016	-	Installation Clip Railing	Sep 15, 2026
278	74379	Feb 12, 2020	Nawaplastic Industries Co., Ltd. and The Nawaplastic Industries (Saraburi) Co., Ltd.	1702003319	Aug 28, 2017	-	Joiner For Gutter	Aug 27, 2027
279	74377	Feb 12, 2020	Nawaplastic Industries Co., Ltd. and The Nawaplastic Industries (Saraburi) Co., Ltd.	1702003317	Aug 28, 2017	-	End Cap For Gutter	Aug 27, 2027
280	74378	Feb 12, 2020	Nawaplastic Industries Co., Ltd. and The Nawaplastic Industries (Saraburi) Co., Ltd.	1702003318	Aug 28, 2017	-	Hanger For Gutter	Aug 27, 2027
281	Petty Patent 4/13546/2016	Oct 13, 2016	Nawaplastic Industries Co., Ltd. and The Nawaplastic Industries (Saraburi) Co., Ltd.	4/13546/2016	Oct 13, 2016	Leakage-Proof Sleeve	-	Oct 12, 2026
282	Petty Patent 2452	Apr 21, 2017	Nawaplastic Industries Co., Ltd. and The Nawaplastic Industries (Saraburi) Co., Ltd.	2-2016-00350	Sep 28, 2016	Leakage-Proof Sleeve	-	Sep 27, 2026
283	Petty Patent KH/GUM/00005	Feb 18, 2020	Nawaplastic Industries Co., Ltd. and The Nawaplastic Industries	KH/UM/2016/0001 5	Sep 29, 2016	Leakage-Proof Sleeve	-	Sep 28, 2026

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
			(Saraburi) Co., Ltd.					
284	Petty Patent 4/13942/2015	Oct 16, 2015	Nawaplastic Industries Co., Ltd. and The Nawaplastic Industries (Saraburi) Co., Ltd.	4/13942/2015	Oct 16, 2015	Rain gutter system	-	Oct 15, 2025
285	70033	May 29, 2019	SCG Performance Chemicals Co., Ltd.	1602003569	Sep 16, 2016	-	Surgical knife	Sep 15, 2026
286	Petty Patent 13153	Oct 3, 2017	SCG Performance Chemicals Co., Ltd.	1603002548	Dec 14, 2016	A solar energy board float	-	Dec 11, 2026
287	69092	Mar 29, 2019	SCG Performance Chemicals Co., Ltd. and National Healthcare Systems Co., Ltd.	1602003570	Sep 16, 2016	-	Medical container	Sep 15, 2026
288	30201805823Q (Singapore)	Nov 1, 2018	Rayong Engineering & Plant Service Co., Ltd.	30201805823Q	Nov 1, 2018	-	A device for detecting corrosion	Nov 1, 2038
289	006396750-002 /006396750-001 (Great Britain)	Apr 25, 2019	Rayong Engineering and Plant Service Co., Ltd.	639675	Apr 25, 2019	-	A device for detecting corrosion of a metal part	Apr 24, 2029
290	30-1041621	Dec 27, 2019	Rayong Engineering and Plant Service Co., Ltd.	A00201901351	Apr 24, 2019	-	A device for detecting corrosion of a metal part	Apr 23, 2029

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
291	30-1041621	Jan 10, 2020	Rayong Engineering and Plant Service Co., Ltd.	30-2019-0020603	Apr 30, 2019	-	A device for detecting corrosion of a metal part	Apr 29, 2029
292	Petty Patent 11586	Jun 8, 2016	Rayong Engineering & Plant Service Co., Ltd.	1503001900	Nov 6, 2015	Corrosion inspection detector	-	Nov 5, 2025
293	Petty Patent 14816	Jan 14, 2019	Rayong Engineering and Plant Service Co., Ltd.	1703002476	Dec 12, 2017	Cable Robot	-	Dec 10, 2027
294	2016102 (Netherland)	Aug 2, 2017	Rayong Engineering & Plant Service Co., Ltd.	2016102	Jan 15, 2016	Movable detector and methods for inspecting elongated tube-like objects in equipment	-	Jan 14, 2036
295	3259570 (Spain)	Feb 27, 2019	Rayong Engineering & Plant Service Co., Ltd.	17730285.8	Sep 22, 2017	Movable detector and methods for inspecting elongated tube-like objects in equipment	-	Sep 21, 2037
296	3259570 (France)	Feb 27, 2019	Rayong Engineering & Plant Service Co., Ltd.	17730285.8	Sep 22, 2017	Movable detector and methods for inspecting elongated tube-like objects in equipment	-	Sep 21, 2037
297	3259570 (Great Britain)	Feb 27, 2019	Rayong Engineering & Plant Service Co., Ltd.	17730285.8	Sep 22, 2017	Movable detector and methods for inspecting elongated tube-like objects	-	Sep 21, 2037

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
						in equipment		
298	3259570 (Belgium)	Feb 27, 2019	Rayong Engineering & Plant Service Co., Ltd.	17730285.8	Sep 22, 2017	Movable detector and methods for inspecting elongated tube-like objects in equipment	-	Sep 21, 2037
299	3259570 (Germany)	Feb 27, 2019	Rayong Engineering & Plant Service Co., Ltd.	17730285.8	Sep 22, 2017	Movable detector and methods for inspecting elongated tube-like objects in equipment	-	Sep 21, 2037
300	10201609261X (Singapore)	Sep 1, 2020	Rayong Engineering & Plant Service Co., Ltd.	10201609261X	Nov 4, 2016	Corrosion Inspection Detector	-	Nov 3, 2036
301	10656120B (USA)	May 19, 2020	Rayong Engineering & Plant Service Co., Ltd.	15/755,306	Feb 26, 2018	Movable Detector and Methods for Inspecting Elongated tube-like objects in Equipment	-	Jan 15, 2037 (PCT filing date Jan 16, 2017)
302	2024040 (Netherlands)	Dec 2, 2020	Rayong Engineering & Plant Service Co., Ltd.	2024040	Nov 1, 2018	Device and method for detecting corrosion of a metal part	-	Oct 31, 2038
303	10,131,594 (USA)	Nov 10, 2018	SMH Co., Ltd.	15/515,732	Mar 30, 2017	Metathesis catalyst on mixed metal oxide-zeolite support and process for use	-	Oct 27, 2034 (PCT filing date Oct 28, 2014)

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
						thereof		
304	11201706042V (Singapore)	Nov 10, 2018	SMH Co., Ltd.	11201706042V	Jul 25, 2017	Catalyst and process for producing olefin	-	Jan 28, 2036 (PCT filing date Jan 29, 2014)
305	3277421 (Germany)	May 15, 2019	SMH Co., Ltd.	16732668.5	Oct 19, 2017	Dehydrogenation catalyst and process utilizing the catalyst	-	Oct 16, 2037
306	3277421 (Poland)	May 15, 2019	SMH Co., Ltd.	16732668.5	Oct 19, 2017	Dehydrogenation catalyst and process utilizing the catalyst	-	Oct 16, 2037
307	3277421 (Belgium)	May 15, 2019	SMH Co., Ltd.	16732668.5	Oct 19, 2017	Dehydrogenation catalyst and process utilizing the catalyst	-	Oct 16, 2037
308	3277421 (Spain)	May 15, 2019	SMH Co., Ltd.	16732668.5	Oct 19, 2017	Dehydrogenation catalyst and process utilizing the catalyst	-	Oct 16, 2037
309	3277421 (France)	May 15, 2019	SMH Co., Ltd.	16732668.5	Oct 19, 2017	Dehydrogenation catalyst and process utilizing the catalyst	-	Oct 16, 2037
310	3277421	May 15, 2019	SMH Co., Ltd.	16732668.5	Oct 19, 2017	Dehydrogenation catalyst	-	Oct 16, 2037

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
	(Netherlands)					and process utilizing the catalyst		
311	10,472,304 (USA)	Nov 12, 2019	SMH Co., Ltd.	15/737,848	Jun 29, 2016	Catalyst and hydrocarbon conversion process utilizing the catalyst	-	Jun 28, 2036
312	10,457,616 (USA)	Oct 29, 2019	SMH Co., Ltd.	15/515,703	Jan 29, 2016	Catalyst And Process For Producing Olefin	-	Jan 28, 2036
313	11201702901V (Singapore)	Oct 10, 2019	SMH Co., Ltd.	11201702901V	Jan 29, 2014	Metathesis catalyst on mixed metal oxide-zeolite support and process for use thereof	-	Jan 22, 2034
314	6595606 (Japan)	Oct 4, 2019	SMH Co., Ltd.	2017-540252	Jul 28, 2017	Catalyst and process for producing olefins	-	Jan 28, 2036 (PCT filing date Jan 29, 2016)
315	I651128B (Taiwan)	Feb 21, 2019	SMH Co., Ltd.	105103017	Jan 30, 2016	Catalyst and process for producing olefin	-	Jan 29, 2036
316	10336947 (USA)	Jul 2, 2019	SMH Co., Ltd.	15/737,762	Dec 19, 2017	A Process For Conversion Of A Hydrocarbon Feed	-	Jun 28, 2036 (PCT filing date Jun 29, 2016)

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
317	11201705448V (Singapore)	Mar 1, 2019	SMH Co., Ltd.	11201705448V	Mar 16, 2016	Catalyst system for olefin metathesis	-	Mar 15, 2036
318	1694862 (Taiwan)	Mar 1, 2020	SMH Co., Ltd.	104135215	Oct 27, 2015	Metathesis catalyst and process for use thereof	-	Oct 26, 2035
319	6676063 (Japan)	Mar 13, 2020	SMH Co., Ltd.	2017-545707S	Aug 30, 2017	Catalyst system for olefin metathesis	-	Mar 15, 2036 (PCT filing date Mar 16, 2016)
320	3238819 (Spain)	Nov 4, 2020	SMH Co., Ltd.	17171366.2	Mar 16, 2016	Catalyst system for olefin metathesis	-	Mar 15, 2036
321	3238819 (Poland)	Nov 4, 2020	SMH Co., Ltd.	17171366.2	Mar 16, 2016	Catalyst system for olefin metathesis	-	Mar 15, 2036
322	3238819 (Belgium)	Nov 4, 2020	SMH Co., Ltd.	17171366.2	Mar 16, 2016	Catalyst system for olefin metathesis	-	Mar 15, 2036
323	3238819 (Germany)	Nov 4, 2020	SMH Co., Ltd.	17171366.2	Mar 16, 2016	Catalyst system for olefin metathesis	-	Mar 15, 2036
324	3238819 (Netherlands)	Nov 4, 2020	SMH Co., Ltd.	17171366.2	Mar 16, 2016	Catalyst system for olefin metathesis	-	Mar 15, 2036
325	3238819 (Great Britain )	Nov 4, 2020	SMH Co., Ltd.	17171366.2	Mar 16, 2016	Catalyst system for olefin metathesis	-	Mar 15, 2036
326	3238819 (Italy )	Nov 4, 2020	SMH Co., Ltd.	17171366.2	Mar 16, 2016	Catalyst system for olefin metathesis	-	Mar 15, 2036

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
327	3238819 (France)	Nov 4, 2020	SMH Co., Ltd.	17171366.2	Mar 16, 2016	Catalyst system for olefin metathesis	-	Mar 15, 2036
328	1692466 (Taiwan)	May 1, 2020	SMH Co., Ltd.	105120546	Jun 29, 2016	A process for conversion of a hydrocarbon feed	-	Jun 28, 2036
329	6698110 (Japan)	Apr 30, 2020	SMH Co., Ltd.	017-567290A	Dec 26, 2017	Catalyst and hydrocarbon conversion process using the catalyst	-	Jun 28, 2036 (PCT filing date Jun 29, 2016)
330	3335791 (Spain)	Apr 8, 2020	SMH Co., Ltd.	16203704.8	Dec 13, 2016	Catalyst system and process utilizing the catalyst system	-	Dec 12, 2036
331	3335791 (Poland)	Apr 8, 2020	SMH Co., Ltd.	16203704.8	Dec 13, 2016	Catalyst system and process utilizing the catalyst system	-	Dec 12, 2036
332	3335791 (Belgium)	Apr 8, 2020	SMH Co., Ltd.	16203704.8	Dec 13, 2016	Catalyst system and process utilizing the catalyst system	-	Dec 12, 2036
333	3335791 (Germany)	Apr 8, 2020	SMH Co., Ltd.	16203704.8	Dec 13, 2016	Catalyst system and process utilizing the catalyst system	-	Dec 12, 2036
334	3335791	Apr 8, 2020	SMH Co., Ltd.	16203704.8	Dec 13, 2016	Catalyst system and	-	Dec 12, 2036



No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
	(Netherlands)					process utilizing the catalyst system		
335	3335792 (Spain)	Apr 1, 2020	SMH Co., Ltd.	16203692.5	Dec 13, 2016	Catalyst system and process for conversion of a hydrocarbon feed utilizing the catalyst system	-	Dec 12, 2036
336	3335792 (Poland)	Apr 1, 2020	SMH Co., Ltd.	16203692.5	Dec 13, 2016	Catalyst system and process for conversion of a hydrocarbon feed utilizing the catalyst system	-	Dec 12, 2036
337	3335792 (Belgium)	Apr 1, 2020	SMH Co., Ltd.	16203692.5	Dec 13, 2016	Catalyst system and process for conversion of a hydrocarbon feed utilizing the catalyst system	-	Dec 12, 2036
338	3335792 (Germany)	Apr 1, 2020	SMH Co., Ltd.	16203692.5	Dec 13, 2016	Catalyst system and process for conversion of a hydrocarbon feed utilizing the catalyst system	-	Dec 12, 2036
339	3335792 (Netherlands)	Apr 1, 2020	SMH Co., Ltd.	16203692.5	Dec 13, 2016	Catalyst system and process for conversion of a hydrocarbon feed utilizing	-	Dec 12, 2036

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
						the catalyst system		
340	3335793 (Spain)	Mar 18, 2020	SMH Co., Ltd.	16203690.9	Dec 13, 2016	Hydrocarbon conversion catalyst	-	Dec 12, 2036
341	3335793 (Poland)	Mar 18, 2020	SMH Co., Ltd.	16203690.9	Dec 13, 2016	Hydrocarbon conversion catalyst	-	Dec 12, 2036
342	3335793 (Belgium)	Mar 18, 2020	SMH Co., Ltd.	16203690.9	Dec 13, 2016	Hydrocarbon conversion catalyst	-	Dec 12, 2036
343	3335793 (Germany)	Mar 18, 2020	SMH Co., Ltd.	16203690.9	Dec 13, 2016	Hydrocarbon conversion catalyst	-	Dec 12, 2036
344	3335793 (Netherlands)	Mar 18, 2020	SMH Co., Ltd.	16203690.9	Dec 13, 2016	Hydrocarbon conversion catalyst	-	Dec 12, 2036
345	2809717 (Romania)	Jul 13, 2016	Norner AS	13702439.4	Jan 31, 2013	Multimodal polyethylene polymers and processes preparing said polymer (NTT)	-	Jan 28, 2033
346	2809717 (Portugal)	Jul 13, 2016	Norner AS	13702439.4	Jan 31, 2013	Multimodal polyethylene polymers and processes preparing said polymer (NTT)	-	Jan 28, 2033
347	2809717 (Poland)	Jul 13, 2016	Norner AS	13702439.4	Jan 31, 2013	Multimodal polyethylene polymers and processes preparing said polymer (NTT)	-	Jan 30, 2033

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
348	2809717 (Italy)	Jul 13, 2016	Norner AS	13702439.4	Jan 31, 2013	Multimodal polyethylene polymers and processes preparing said polymer (NTT)	-	Jan 30, 2033
349	2809717 (Hungary)	Jul 13, 2016	Norner AS	13702439.4	Jan 31, 2013	Multimodal polyethylene polymers and processes preparing said polymer (NTT)	-	Jan 30, 2033
350	2809717 (France)	Jul 13, 2016	Norner AS	13702439.4	Jan 31, 2013	Multimodal polyethylene polymers and processes preparing said polymer (NTT)	-	Jan 30, 2033
351	2809717 (Spain)	Jul 13, 2016	Norner AS	13702439.4	Jan 31, 2013	Multimodal polyethylene polymers and processes preparing said polymer (NTT)	-	Jan 30, 2033
352	2809717 (Germany)	Jul 13, 2016	Norner AS	13702439.4	Jan 31, 2013	Multimodal polyethylene polymers and processes preparing said polymer (NTT)	-	Jan 30, 2033
353	2809717 (Belgium)	Jul 13, 2016	Norner AS	13702439.4	Jan 31, 2013	Multimodal polyethylene polymers and processes preparing said polymer (NTT)	-	Jan 30, 2033
354	2809717 (Austria)	Jul 13, 2016	Norner AS	13702439.4	Jan 31, 2013	Multimodal polyethylene polymers and processes preparing said polymer (NTT)	-	Jan 30, 2033
355	2809717 (Turkey)	Jul 13, 2016	Norner AS	13702439.4	Jan 31, 2013	Multimodal polyethylene polymers and processes preparing said polymer (NTT)	-	Jan 30, 2033



No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
356	ZL201380017952.8 (China)	Oct 12, 2016	Norner AS	201380017952.8	Jan 31, 2013	Multimodal polyethylene polymers and processes preparing said polymer (NTT)	-	Jan 30, 2033
357	6272237 (Japan)	Jan 12, 2018	Norner AS	2014-555196	Jan 31, 2013	Multimodal polyethylene polymers and process preparing said polymer	-	Jan 30, 2033
358	2049537 (Korea)	Nov 21, 2019	Norner AS	10-2014-7024238	Jan 31, 2013	Multimodal polyethylene polymers and process preparing said polymer	-	Jan 30, 2033
359	2930205 (Austria)	May 10, 2017	Norner AS	15164618.9	Jan 31, 2013	Multimodal polyethylene polymers and process preparing said polymer (Divisional application)	-	Jan 30, 2033
360	2930205 (Belgium)	May 10, 2017	Norner AS	15164618.9	Jan 31, 2013	Multimodal polyethylene polymers and process preparing said polymer (Divisional application)	-	Jan 30, 2033
361	2930205 (Germany)	May 10, 2017	Norner AS	15164618.9	Jan 31, 2013	Multimodal polyethylene polymers and process preparing said polymer (Divisional application)	-	Jan 30, 2033
362	2930205 (Spain)	May 10, 2017	Norner AS	15164618.9	Jan 31, 2013	Multimodal polyethylene polymers and process	-	Jan 30, 2033

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
						preparing said polymer (Divisional application)		
363	2930205 (France)	May 10, 2017	Norner AS	15164618.9	Jan 31, 2013	Multimodal polyethylene polymers and process preparing said polymer (Divisional application)	-	Jan 30, 2033
364	2930205 (Great Britain)	May 10, 2017	Norner AS	15164618.9	Jan 31, 2013	Multimodal polyethylene polymers and process preparing said polymer (Divisional application)	-	Jan 30, 2033
365	2930205 (Hungary)	May 10, 2017	Norner AS	15164618.9	Jan 31, 2013	Multimodal polyethylene polymers and process preparing said polymer (Divisional application)	-	Jan 30, 2033
366	2930205 (Poland)	May 10, 2017	Norner AS	15164618.9	Jan 31, 2013	Multimodal polyethylene polymers and process preparing said polymer (Divisional application)	-	Jan 30, 2033
367	2930205 (Portugal)	May 10, 2017	Norner AS	15164618.9	Jan 31, 2013	Multimodal polyethylene polymers and process preparing said polymer (Divisional application)	-	Jan 30, 2033
368	2930205 (Romania)	May 10, 2017	Norner AS	15164618.9	Jan 31, 2013	Multimodal polyethylene polymers and process	-	Jan 30, 2033



No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
						preparing said polymer (Divisional application)		
369	2930205 (Turkey)	May 10, 2017	Norner AS	15164618.9	Jan 31, 2013	Multimodal polyethylene polymers and process preparing said polymer (Divisional application)	-	Jan 30, 2033
370	2930205 (Italy)	May 10, 2017	Norner AS	15164618.9	Jan 31, 2013	Multimodal polyethylene polymers and process preparing said polymer (Divisional application)	-	Jan 30, 2033
371	9340646 (USA)	May 17, 2016	Norner IP AS	14/232,250	Jul 11, 2012	Process for purifying poly (alkylene carbonate)	-	Jul 10, 2032
372	2731981 (France)	Aug 31, 2016	Norner IP AS	12733739.2	Jul 11, 2012	Process for purifying poly (alkylene carbonate)	-	Jul 10, 2032
373	2731981 (Spain)	Aug 31, 2016	Norner IP AS	12733739.2	Jul 11, 2012	Process for purifying poly (alkylene carbonate)	-	Jul 10, 2032
374	2731981 (Netherland)	Aug 31, 2016	Norner IP AS	12733739.2	Jul 11, 2012	Process for purifying poly (alkylene carbonate)	-	Jul 10, 2032
375	2731981 (Germany)	Aug 31, 2016	Norner IP AS	12733739.2	Jul 11, 2012	Process for purifying poly (alkylene carbonate)	-	Jul 10, 2032
376	103842406 (China)	Nov 2, 2016	Norner IP AS	201280044028.4	Jul 11, 2012	Process for purifying poly (alkylene carbonate)	-	Jul 10, 2032

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377	ZL201480004698.2 (China)	Jan 15, 2019	Norner IP AS	201480004698.2	Jan 10, 2014	Process	-	Jan 9, 2034
378	6479680 (Japan)	Feb 15, 2019	Norner IP AS	2015-552059	Jan 10, 2014	Process	-	Jan 9, 2034
379	10370503 (USA)	Aug 6, 2019	Norner IP AS	14/760356	Jan 10, 2014	Process	-	Jan 9, 2034
380	2694769 (Russia)	Jul 16, 2019	Norner Verdandi AS	2017126222	Jul 21, 2015	Polyethylene for pipes	-	Jul 20, 2035
<b>Packaging Business</b>								
381	50419	Jul 14, 2016	SCG Packaging PLC.	1102001273	May 3, 2011	-	Paper splint	May 2, 2021
382	78568	Sep 16, 2020	SCG Packaging PLC.	0901000582	Feb 11, 2009	Folding chair blanks and chair made by folding said blanks	-	Feb 10, 2029
383	Petty Patent 11664	Jun 28, 2016	SCG Packaging PLC.	1503001838	Oct 29, 2015	Investigated method of macro sticky in paper pulp	-	Oct 28, 2025
384	Petty Patent 12725	Jun 7, 2017	SCG Packaging PLC.	1503001837	Oct 29, 2015	Multi floors truck	-	Oct 28, 2025
385	Petty Patent 14843	Jan 21, 2019	SCG Packaging PLC.	1703002391	Mar 29, 2017	Soil covering material having structural layers	-	Mar 28, 2027
386	Petty Patent 9259	Oct 24, 2014	SCG Packaging PLC. and Khon Kaen University and Thailand Research Fund	1203000685	Jun 29, 2012	Geopolymer from fly ash and biomass ash which obtained from fluidized bed reactor mixing with fly ash from coal and	-	Jun 28, 2022

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
						gypsum combustion		
387	Petty Patent 10340	Sep 4, 2015	SCG Packaging PLC. and The National Science and Technology Development Agency	1103000736	Jul 28, 2011	Method of pulp treatment with enzyme in refining step for papermaking process	-	Jul 27, 2021
388	Petty Patent 16465	Jul 9, 2020	SCG Packaging PLC and Asoke Skin Hospital Co., Ltd.	1903001921	Jul 26, 2019	Wound closure device	-	Jul 26, 2029
389	Petty Patent 10041	July 2, 2015	Siam Kraft Industry Co., Ltd.	1403000945	Aug 22, 2014	Wireless hygrometer	-	Aug 21, 2024
390	Petty Patent 12351	Jan 24, 2017	Siam Kraft Industry Co., Ltd.	1403001694	Dec 12, 2014	Portable, scoring device	-	Dec 11, 2024
391	19467 (Vietnam)	Jun 13, 2018	Siam Kraft Industry Co., Ltd.	1-2015-04170	Mar 28, 2014	Sheets with organic filler	-	Mar 27, 2034
392	46617	Oct 26, 2015	Thai Containers Group Co., Ltd.	1202002433	Sep 14, 2012	-	Container blank	Sep 13, 2022
393	49033	Apr 4, 2016	Thai Containers Group Co., Ltd.	1202002432	Sep 14, 2012	-	Container	Sep 13, 2022
394	49034	Apr 4, 2016	Thai Containers Group Co., Ltd.	1202002431	Sep 14, 2012	-	Container	Sep 13, 2022
395	53597	Feb 1, 2017	Thai Containers Group Co., Ltd.	1402003369	Nov 3, 2014	-	Display	Nov 2, 2024
396	58761	Nov 3, 2017	Thai Containers Group Co., Ltd.	1402003368	Nov 3, 2014	-	Display	Nov 2, 2024
397	63990	Aug 3, 2018	Thai Containers Group Co., Ltd.	0701005183	Oct 15, 2007	Chair	-	Oct 14, 2027
398	66067	Nov 6, 2018	Thai Containers Group Co., Ltd.	1502003764	Oct 29, 2015	-	Folding chair	Oct 28, 2025
399	66068	Nov 6, 2018	Thai Containers Group Co., Ltd.	1502003765	Oct 29, 2015	-	Folding chair blank	Oct 28, 2025



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400	66433	Nov 19, 2018	Thai Containers Group Co., Ltd.	0701006255	Dec 7, 2007	Chair	-	Dec 6, 2027
401	66472	Nov 21, 2018	Thai Containers Group Co., Ltd.	1302001479	Jun 4, 2013	-	Container	Jun 3, 2023
402	66471	Nov 22, 2018	Thai Containers Group Co., Ltd.	1302001480	Jun 4, 2013	-	Container blank	Jun 3, 2023
403	69428	Apr 23, 2019	Thai Containers Group Co., Ltd.	1702000703	Mar 3, 2017	-	Container	Mar 2, 2027
404	69429	Apr 23, 2019	Thai Containers Group Co., Ltd.	1702000704	Mar 3, 2017	-	Container blank	Mar 2, 2027
405	70253	Jun 11, 2019	Thai Containers Group Co., Ltd.	1702002115	Jun 8, 2017	-	Container	Jun 7, 2027
406	70254	Jun 11, 2019	Thai Containers Group Co., Ltd.	1702002116	Jun 8, 2017	-	Container blank	Jun 7, 2027
407	70255	Jun 11, 2019	Thai Containers Group Co., Ltd.	1702002117	Jun 8, 2017	-	Container	Jun 7, 2027
408	70256	Jun 11, 2019	Thai Containers Group Co., Ltd.	1702002118	Jun 8, 2017	-	Container blank	Jun 7, 2027
409	71053	Aug 8, 2019	Thai Containers Group Co., Ltd.	1702002533	July 7, 2017	-	Container blank	July 6, 2027
410	71054	Aug 8, 2019	Thai Containers Group Co., Ltd.	1702002534	July 7, 2017	-	Container blank	July 6, 2027
411	72812	Nov 25, 2019	Thai Containers Group Co., Ltd.	0701006254	Dec 7, 2007	Assembly chair	-	Dec 6, 2027
412	Petty Patent 9838	Apr 28, 2015	Thai Containers Group Co., Ltd.	1403000528	May 30, 2014	Water-proof sheath for pallet leg	-	May 29, 2024
413	Petty Patent 11075	Jan 26, 2016	Thai Containers Group Co., Ltd.	1503000291	Mar 9, 2015	Box with a creaser line and production thereof	-	Mar 8, 2025
414	Petty Patent 15813	Jan 10, 2020	Thai Containers Group Co., Ltd.	1803002959	Dec 21, 2018	Ventilated packaging	-	Dec 21, 2028
415	55526	Jun 20, 2017	Thai Paper Co.,Ltd.	1402002351	Aug 22, 2014	-	Container	Aug 21, 2024
416	55527	Jun 20, 2017	Thai Paper Co.,Ltd.	1402002352	Aug 22, 2014	-	Container blank	Aug 21, 2024

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417	55528	Jun 20, 2017	Thai Paper Co.,Ltd.	1402002353	Aug 22, 2014	-	Container blank	Aug 21, 2024
418	55529	Jun 20, 2017	Thai Paper Co.,Ltd.	1402002354	Aug 22, 2014	-	Container blank	Aug 21, 2024
419	55530	Jun 20, 2017	Thai Paper Co.,Ltd.	1402002355	Aug 22, 2014	-	Container blank	Aug 21, 2024
420	55531	Jun 20, 2017	Thai Paper Co.,Ltd.	1402002356	Aug 22, 2014	-	Container blank	Aug 21, 2024
421	58757	Nov 3, 2017	Thai Paper Co.,Ltd.	1502004293	Dec 17, 2015	-	Container	Dec 16, 2025
422	58758	Nov 3, 2017	Thai Paper Co.,Ltd.	1502004294	Dec 17, 2015	-	Container	Dec 16, 2025
423	58759	Nov 3, 2017	Thai Paper Co.,Ltd.	1502004295	Dec 17, 2015	-	Container blank	Dec 16, 2025
424	58760	Nov 3, 2017	Thai Paper Co.,Ltd.	1502004296	Dec 17, 2015	-	Container blank	Dec 16, 2025
425	61702	Mar 30, 2018	Thai Paper Co.,Ltd.	1502003338	Sep 29, 2015	-	Container	Sep 28, 2025
426	61703	Mar 30, 2018	Thai Paper Co.,Ltd.	1502004005	Nov 24, 2015	-	Container	Nov 23, 2025
427	61704	Mar 30, 2018	Thai Paper Co.,Ltd.	1502004006	Nov 24, 2015	-	Container blank	Nov 23, 2025
428	61705	Mar 30, 2018	Thai Paper Co.,Ltd.	1502004007	Nov 24, 2015	-	Container blank	Nov 23, 2025
429	63510	Jul 5, 2018	Thai Paper Co.,Ltd.	1602001211	Mar 31, 2016	-	Container	Mar 30, 2026
430	66313	Nov13, 2018	Thai Paper Co.,Ltd.	1702002966	Aug 4, 2017	-	Lid	Aug 3, 2027
431	66314	Nov13, 2018	Thai Paper Co.,Ltd.	1502003339	Sep 29, 2015	-	Container blank	Sep 28, 2025
432	71076	Aug 9, 2019	Thai Paper Co.,Ltd.	1702002840	July 27, 2017	-	Container	July 26, 2027
433	71077	Aug 9, 2019	Thai Paper Co.,Ltd.	1702002841	July 27, 2017	-	Container blank	July 26, 2027
434	72457	Nov 8, 2019	Thai Paper Co.,Ltd.	1702004851	Nov 30, 2017	-	Container belt blank	Nov 29, 2027
435	72458	Nov 8, 2019	Thai Paper Co.,Ltd.	1702004852	Nov 30, 2017	-	Container with belt	Nov 29, 2027
436	72459	Nov 8, 2019	Thai Paper Co.,Ltd.	1702004853	Nov 30, 2017	-	Container with belt	Nov 29, 2027



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437	73657	Jan 10, 2020	Thai Paper Co.,Ltd.	1702005000	Dec 14, 2017	-	Container	Dec 14, 2027
438	73658	Jan 10, 2020	Thai Paper Co.,Ltd.	1702004999	Dec 14, 2017	-	Container	Dec 14, 2027
439	73659	Jan 10, 2020	Thai Paper Co.,Ltd.	1702005001	Dec 14, 2017	-	Container	Dec 14, 2027
440	Petty Patent 12796	Jun 23, 2017	Thai Paper Co.,Ltd.	1603001729	Sep 9, 2016	Food container	-	Sep 8, 2026
441	Petty Patent 13983	Jun 15, 2018	Thai Paper Co.,Ltd.	1603000174	Feb 1, 2016	Packaging having separated containers	-	Jan 31, 2026
442	Petty patent 15101	Apr 17, 2019	Thai Paper Co.,Ltd.	1703001413	Aug 4, 2017	Food container	-	Aug 3, 2027
443	AU349045 (Australia)	Jun 6, 2013	Visy R&D Pty Ltd	201310113	Jan 7, 2013	-	Screw cap for a jar	Jan 6, 2023
444	CN302813835S (China)	May 7, 2014	Visy R&D Pty Ltd	201330308180.6	July 5, 2013	-	Screw cap for a jar	July 4, 2023
445	3-2013-000811 (Philippines)	May 14, 2014	Visy R&D Pty Ltd	3-2013-000811	July 5, 2013	-	Screw cap for a jar	July 4, 2023
446	USD723370S (USA)	Mar 3, 2015	Visy R&D Pty Ltd	29/459,982	July 5, 2013	-	Screw cap for a jar	Mar 2, 2029
<b>Cement-Building Materials Business</b>								
447	47306	Dec 8, 2015	SCG Cement Co., Ltd.	1102000780	Mar 21, 2011	-	Refractory supporting unit	Mar 20, 2021
448	49089	Apr 8, 2016	SCG Cement Co., Ltd.	1102000784	Mar 21, 2011	-	Mortar refractory	Mar 20, 2021

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449	49090	Apr 8, 2016	SCG Cement Co., Ltd.	1102000782	Mar 21, 2011	-	Mortar refractory	Mar 20, 2021
450	51916	Oct 18, 2016	SCG Cement Co., Ltd.	1102000781	Mar 21, 2011	-	Refractory	Mar 20, 2021
451	52081	Oct 26, 2016	SCG Cement Co., Ltd.	1102000783	Mar 21, 2011	-	Refractory	Mar 20, 2021
452	54694	Apr 20, 2017	SCG Cement Co., Ltd.	1402003424	Nov 6, 2014	-	Shoveling device	Nov 5, 2024
453	Petty Patent 9756	Apr 4, 2015	SCG Cement Co., Ltd.	1103000179	Feb 23, 2011	Method for manufacturing lightweight aggregate from biomass and its product	-	Feb 22, 2021
454	Petty Patent 11798	Aug 4, 2016	SCG Cement Co., Ltd.	1203001476	Dec 7, 2012	Pozzolanic material made from high ferrous clay and manufacturing method thereof	-	Dec 6, 2022
455	Petty Patent 12528	Mar 21, 2017	SCG Cement Co., Ltd.	1603000176	Feb 2, 2016	Textured concrete element	-	Feb 1, 2026
456	Petty Patent 12794	Jun 23, 2017	SCG Cement Co., Ltd.	1603001632	Sep 2, 2016	Big bag transporting device	-	Sep 1, 2026
457	Petty Patent 13228	Nov 3, 2017	SCG Cement Co., Ltd.	1603001194	Jun 6, 2016	Fast drying mixed cement for masonry or plastering application	-	Jun 5, 2026
458	Petty Patent 13229	Nov 3, 2017	SCG Cement Co., Ltd.	1603001193	Jun 6, 2016	Pigment for cementitious material and manufacturing method thereof	-	Jun 5, 2026
459	Petty Patent 13535	Feb 7, 2018	SCG Cement Co., Ltd.	1603000177	Feb 2, 2016	Repairing Cement	-	Feb 1, 2026
460	Petty Patent 13614	Feb 28, 2018	SCG Cement Co., Ltd.	1603000645	Apr 20, 2016	Flexible mortar for	-	Apr 19, 2026

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
						construction joint sealing		
461	Petty Patent 13745	Apr 11, 2018	SCG Cement Co., Ltd.	1703001856	Sep 22, 2017	Shim installing apparatus for refractory brick	-	Sep 21, 2027
462	Petty Patent 15051	Mar 8, 2019	SCG Cement Co., Ltd.	1703001373	Jul 27, 2017	Expansive agent	-	Jul 26, 2027
463	US8864903 (USA)	Oct 21, 2014	SCG Cement Co., Ltd.	US13/717,054	Oct 29, 2012	Composite plaster including an organic additive	-	Oct 28, 2032
464	20285	Jul 28, 2006	The Siam Refractory Industry Co., Ltd.	0301003134 (084687)	Aug 22, 2003	Procedure for packaging basic brick to improve ventilation system	-	Aug 21, 2023
465	25337	Jan 23, 2009	The Siam Refractory Industry Co., Ltd.	0301003133	Aug 22, 2003	Spraying or mortar Refractory	-	Aug 21, 2023
466	Petty Patent 8528	Dec 11, 2013	SCI Eco Services Co., Ltd.	1203000839	Aug 10, 2012	Solid fuel product that is made from waste	-	Aug 9, 2022
467	75620	Apr 15, 2020	SCG Cement Co., Ltd.	1801003726	Dec 24, 2015	A Method of Constructing a Layered Structure and Apparatus therefore	-	Dec 23, 2035
468	Petty Patent 16130	Apr 15, 2020	SCG Cement Co., Ltd.	1603001865	Sep 21, 2016	System for reducing sulphurdioxide gas in cement production process which is directly connected to raw mill and method for reducing said	-	Sep 20, 2026

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
						sulphurdioxide gas		
469	11201807807Y (Singapore)	Jun 12, 2020	SCG Cement Co., Ltd.	11201807807Y	Sep 11, 2018	A CEMENT FORMULA COMPOSITION FOR CONSTRUCTING A MULTIPLE LAYERED OBJECT	-	Sep 10, 2038
470	20285	Jul 28, 2006	The Siam Refractory Industry Co., Ltd.	0301003134 (084687)	Aug 22, 2003	Procedure for packaging basic brick to improve ventilation system	-	Aug 21, 2023
471	25337	Jan 23, 2009	The Siam Refractory Industry Co., Ltd.	0301003133	Aug 22, 2003	Spraying or mortar Refractory	-	Aug 21, 2023
472	Petty Patent 8528	Dec 11, 2013	SCI Eco Services Co., Ltd.	1203000839	Aug 10, 2012	Solid fuel product that is made from waste	-	Aug 9, 2022
473	49595	May 30, 2016	The Siam Fibre-Cement Co., Ltd.	1202002887	Nov 2, 2012	-	Seat	Nov 1, 2022
474	51075	Sep 6, 2016	The Siam Fibre-Cement Co., Ltd.	1302000153	Jan 24, 2013	-	Shelter	Jan 23, 2023
475	77851	Jul 29, 2020	The Siam Fibre-Cement Co., Ltd.	1702001616	May 15, 2017	-	Oval Model	May 14, 2027
476	Petty Patent 15396	Aug 9, 2019	The Siam Fibre-Cement Co., Ltd.	1703000818	May 15, 2017	Building Blocks	-	May 14, 2027
477	49317	May 4, 2016	Siam Fibre Cement Group Co., Ltd.	1202002474	Sep 17, 2012	-	Building material element	Sep 16, 2022
478	49596	May 30, 2016	Siam Fibre Cement Group Co., Ltd.	1402000487	Mar 14, 2014	-	Patterned tile	Mar 13, 2024

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479	53439	Jan 20, 2017	Siam Fibre Cement Group Co., Ltd.	1302002661	Sep 24, 2013	-	Bracked element	Sep 23, 2023
480	53440	Jan 20, 2017	Siam Fibre Cement Group Co., Ltd.	1302002660	Sep 24, 2013	-	Bracked element	Sep 23, 2023
481	53971	Feb 24, 2017	Siam Fibre Cement Group Co., Ltd.	1402003915	Dec 19, 2014	-	Patterned floor	Dec 18, 2024
482	53972	Feb 24, 2017	Siam Fibre Cement Group Co., Ltd.	1402003916	Dec 19, 2014	-	Patterned floor	Dec 18, 2024
483	53973	Feb 24, 2017	Siam Fibre Cement Group Co., Ltd.	1402003917	Dec 19, 2014	-	Patterned floor	Dec 18, 2024
484	58152	Oct 11, 2017	Siam Fibre Cement Group Co., Ltd.	1502000029	Jan 6, 2015	-	Patterned floor	Jan 5, 2025
485	58153	Oct 11, 2017	Siam Fibre Cement Group Co., Ltd.	1402000734	Mar 28, 2014	-	Building material element	Mar 27, 2024
486	60014	Jan 12, 2018	Siam Fibre Cement Group Co., Ltd.	1502001733	May 29, 2015	-	Patterned floor	May 28, 2025
487	60804	Feb 16, 2018	Siam Fibre Cement Group Co., Ltd.	1502001416	April 30, 2015	-	Patterned floor	April 29, 2025
488	60805	Feb 16, 2018	Siam Fibre Cement Group Co., Ltd.	1502001741	May 29, 2015	-	Building material element	May 28, 2025
489	61072	Feb 28, 2018	Siam Fibre Cement Group Co., Ltd.	1402000291	Feb 12, 2014	-	Patterned floor	Feb 11, 2024

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
490	61919	Apr 11, 2018	Siam Fibre Cement Group Co., Ltd.	1502001738	May 29, 2015	-	Building material element	May 28, 2025
491	62386	Apr 30, 2018	Siam Fibre Cement Group Co., Ltd.	1502004404	Dec 24, 2015	-	Patterned ceiling	Dec 23, 2025
492	62387	Apr 30, 2018	Siam Fibre Cement Group Co., Ltd.	1502004405	Dec 24, 2015	-	Patterned ceiling	Dec 23, 2025
493	62388	Apr 30, 2018	Siam Fibre Cement Group Co., Ltd.	1502004406	Dec 24, 2015	-	Patterned ceiling	Dec 23, 2025
494	63420	Jul 3, 2018	Siam Fibre Cement Group Co., Ltd.	1602002718	Jul 15, 2016	-	Patterned ceiling	Jul 14, 2026
495	63421	Jul 3, 2018	Siam Fibre Cement Group Co., Ltd.	1602002720	Jul 15, 2016	-	Patterned ceiling	Jul 14, 2026
496	63425	Jul 3, 2018	Siam Fibre Cement Group Co., Ltd.	1602002719	Jul 15, 2016	-	Patterned ceiling	Jul 14, 2026
497	65195	Sep 28, 2018	Siam Fibre Cement Group Co., Ltd.	1502001136	Apr 10, 2015	-	Patterned floor	Apr 9, 2025
498	65196	Sep 28, 2018	Siam Fibre Cement Group Co., Ltd.	1502001135	Apr 10, 2015	-	Patterned floor	Apr 9, 2025
499	65826	Oct 25, 2018	Siam Fibre Cement Group Co., Ltd.	1402001287	May 14, 2014	-	Wall and floor tile	May 13, 2024
500	75617	Apr 14, 2020	Siam Fibre Cement Group Co., Ltd.	1702000696	Mar 2, 2017	-	Building material	Mar 1, 2027



No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
			Ltd.				element	
501	77525	Jul 3, 2020	Siam Fibre Cement Group Co., Ltd.	1602001299	Apr 8, 2016	-	Screw	Apr 7, 2026
502	77523	Jul 3, 2020	Siam Fibre Cement Group Co., Ltd.	1702000609	Feb 24, 2017	-	Screwdriver	Feb 23, 2027
503	16485	Jul 3, 2020	Siam Fibre Cement Group Co., Ltd.	1703000309	Feb 24, 2017	-	Step Cover	Feb 23, 2027
504	77524	Jul 3, 2020	Siam Fibre Cement Group Co., Ltd.	1702000610	Feb 24, 2017	-	Building material element	Feb 23, 2027
505	77522	Jul 3, 2020	Siam Fibre Cement Group Co., Ltd.	1802004601	Oct 25, 2018	-	Wall tiles	Oct 24, 2028
506	77920	Jul 3, 2020	Siam Fibre Cement Group Co., Ltd.	1802004229	Sep 28, 2018	-	Building material element	Sep 27, 2028
507	77921	Jul 3, 2020	Siam Fibre Cement Group Co., Ltd.	1802004228	Sep 28, 2018	-	Building material element	Sep 27, 2028
508	Petty Patent 8721	Mar 17, 2014	Siam Fibre Cement Group Co., Ltd.	1303001128	Sep 24, 2013	Installation of plaques	-	Sep 23, 2023
509	Petty Patent 10440	Sep 28, 2015	Siam Fibre Cement Group Co., Ltd.	1403001403	Oct 30, 2014	Cover roof end tools and process of that	-	Oct 29, 2024
510	Petty Patent 11004	Jan 11, 2016	Siam Fibre Cement Group Co., Ltd.	1503000960	Jun 25, 2015	Eave	-	Jun 24, 2025

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
511	Petty Patent 11738	Jul 15, 2016	Siam Fibre Cement Group Co., Ltd.	1503001907	Nov 9, 2015	Ventilating ceiling	-	Nov 8, 2025
512	Petty Patent 12648	May 15, 2017	Siam Fibre Cement Group Co., Ltd	1603000339	Mar 1, 2016	Jambs and installation system	-	Feb 28, 2026
513	Petty Patent 13560	Feb 16, 2018	Siam Fibre Cement Group Co., Ltd	1603001100	Jun 24, 2016	Digital printing for fiber cement material	-	Jun 23, 2026
514	Petty Patent 14047	Jul 3, 2018	Siam Fibre Cement Group Co., Ltd	1603000590	Apr 8, 2016	Screw	-	Apr 7, 2026
515	Petty Patent 14707	Dec 13, 2018	Siam Fibre Cement Group Co., Ltd	1703000595	Apr 7, 2017	Ventilation and installation system	-	Apr 6, 2027
516	Petty Patent 14708	Dec 13, 2018	Siam Fibre Cement Group Co., Ltd	1703000915	May 29, 2017	Eaves	-	May 28,2027
517	Petty Patent 15362	Jul 25, 2019	Siam Fibre Cement Group Co., Ltd	1703001274	Jul 14,2017	Edge of sheet and installation system	-	Jul 13,2027
518	Petty Patent 16485	Jul 3, 2020	Siam Fibre Cement Group Co., Ltd	1703000309	Feb 24, 2017	Step Cover	-	Feb 23, 2027
519	Petty Patent 16535	Jul 29, 2020	Siam Fibre Cement Group Co., Ltd	1703001860	Sep 22, 2017	Spacer	-	Sep 21, 2027
520	54434	Mar 27, 2017	SCG Building Materials Co., Ltd.	0701004624	Sep 13, 2007	Roofing materials	-	Sep 12, 2027
521	54435	Mar 27, 2017	SCG Building Materials Co., Ltd.	0701004625	Sep 13, 2007	Bracked element	-	Sep 12, 2027
522	56127	Jul 21, 2017	SCG Building Materials Co., Ltd.	0701004623	Sep 13, 2007	Installation of roofing	-	Sep 12, 2027

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						materials		
523	56256	Jul 27, 2017	SCG Building Materials Co., Ltd.	0901001969	May 4, 2009	Apparatus and method for forming powder materials	-	May 3, 2029
524	64005	Aug 3, 2018	SCG Building Materials Co., Ltd. and SCG Ceramics Public	0701004776	Sep 21, 2007	Apparatus and method for forming a pattern in ceramic tile or slab with prescribed thickness	-	Sep 20, 2027
525	68316	Feb 22, 2019	SCG Building Materials Co., Ltd.	1101000516	Apr 8, 2011	Ventilation for housing	-	Apr 7, 2031
526	69124	Mar 29, 2019	SCG Building Materials Co., Ltd.	1201004386	Aug 27, 2012	roof tile stacking and packing machine	-	Aug 26, 2032
527	79974	Nov 26, 2020	SCG Building Materials Co., Ltd.	1101000132	Jan 28, 2011	Wall installation system	-	Jan 27, 2031
528	44001	Apr 30, 2015	SCG Building Materials Co., Ltd.	1102000953	Mar 31, 2011	-	Floor tile	Mar 31, 2021
529	44641	Jun 12, 2015	SCG Building Materials Co., Ltd.	1202001166	May 3, 2012	-	Bracked element	May 3, 2022
530	48365	Mar 1, 2016	SCG Building Materials Co., Ltd.	1102001140	Apr 12, 2011	-	Floor tile	Apr 11, 2021
531	48366	Mar 1, 2016	SCG Building Materials Co., Ltd.	1102001137	Apr 12, 2011	-	Floor tile	Apr 11, 2021
532	48367	Mar 1, 2016	SCG Building Materials Co., Ltd.	1102001138	Apr 12, 2011	-	Floor tile	Apr 11, 2021
533	48368	Mar 1, 2016	SCG Building Materials Co., Ltd.	1102001139	Apr 12, 2011	-	Floor tile	Apr 11, 2021
534	48471	Mar 7, 2016	SCG Building Materials Co., Ltd.	1202001165	May 3, 2012	-	Attaching device	May 2, 2022
535	48472	Mar 7, 2016	SCG Building Materials Co., Ltd.	1302002137	Jul 31, 2013	-	Ventilators	Jul 30, 2023
536	49321	May 4, 2016	SCG Building Materials Co., Ltd.	1202000189	Jan 26, 2012	-	Wall	Jan 26, 2022
537	52230	Nov 4, 2016	SCG Building Materials Co., Ltd.	1302002995	Oct 18, 2013	-	Fastener	Oct 17, 2023
538	52231	Nov 4, 2016	SCG Building Materials Co., Ltd.	1302002994	Oct 18, 2013	-	Fastener	Oct 17, 2023
539	52234	Nov 4, 2016	SCG Building Materials Co., Ltd.	1302002996	Oct 18, 2013	-	Fastener	Oct 17, 2023

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540	52235	Nov 4, 2016	SCG Building Materials Co., Ltd.	1302003588	Dec 6, 2013	-	Fastener	Dec 5, 2023
541	55988	Jul 14, 2017	SCG Building Materials Co., Ltd.	1102000097	Jan 11, 2011	-	Roof tile	Jan 10, 2021
542	56898	Aug 22, 2017	SCG Building Materials Co., Ltd.	1402000375	Feb 28, 2014	-	Growing unit	Feb 27, 2024
543	58157	Oct 11, 2017	SCG Building Materials Co., Ltd.	1302003804	Dec 27, 2013	-	Concrete block dividing unit	Dec 26, 2025
544	60803	Feb 16, 2018	SCG Building Materials Co., Ltd.	1502000028	Jan 6, 2015	-	Ventilation system	Jan 5, 2025
545	60813	Feb 16, 2018	SCG Building Materials Co., Ltd.	1502001743	May 29, 2015	-	Heat shield	May28, 2025
546	60816	Feb 16, 2018	SCG Building Materials Co., Ltd.	1602001695	May 4, 2016	-	Basin	May 3, 2026
547	61073	Feb 28, 2018	SCG Building Materials Co., Ltd.	1502003708	Oct 27, 2015	-	Wall and floor tile	Oct 26, 2025
548	61924	Apr 11, 2018	SCG Building Materials Co., Ltd.	1602000691	Mar 1, 2016	-	Building material element	Oct 28, 2026
549	62509	May 17, 2018	SCG Building Materials Co., Ltd.	1502003709	Oct 27, 2015	-	Floor and wall tile	Oct 26, 2025
550	65194	Sep 28, 2018	SCG Building Materials Co., Ltd.	1602004273	Nov 4, 2016	-	Wall and floor tile	Nov 3, 2026
551	66881	Dec 13, 2018	SCG Building Materials Co., Ltd.	1602004282	Nov 4, 2016	-	Wall Panel	Nov 3, 2026
552	66882	Dec 13, 2018	SCG Building Materials Co., Ltd.	1602004281	Nov 4, 2016	-	Wall Panel	Nov 3, 2026
553	66883	Dec 13, 2018	SCG Building Materials Co., Ltd.	1602004280	Nov 4, 2016	-	Wall Panel	Nov 3, 2026
554	66884	Dec 13, 2018	SCG Building Materials Co., Ltd.	1602004279	Nov 4, 2016	-	Wall Panel	Nov 3, 2026
555	66885	Dec 13, 2018	SCG Building Materials Co., Ltd.	1602004278	Nov 4, 2016	-	Wall Panel	Nov 3, 2026
556	66886	Dec 13, 2018	SCG Building Materials Co., Ltd.	1602004277	Nov 4, 2016	-	Wall Panel	Nov 3, 2026
557	66887	Dec 13, 2018	SCG Building Materials Co., Ltd.	1602004276	Nov 4, 2016	-	Wall Panel	Nov 3, 2026
558	66888	Dec 13, 2018	SCG Building Materials Co., Ltd.	1602004275	Nov 4, 2016	-	Wall Panel	Nov 3, 2026
559	66889	Dec 13, 2018	SCG Building Materials Co., Ltd.	1602004274	Nov 4, 2016	-	Wall Panel	Nov 3, 2026

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
560	68318	Feb 22, 2019	SCG Building Materials Co., Ltd.	1702001392	Apr 28, 2017	-	Bracketed element	Apr 27, 2027
561	69463	Apr 24, 2019	SCG Building Materials Co., Ltd.	1602004272	Nov 4, 2016	-	Wall and floor tile	Nov 3, 2026
562	70401	Jun 20, 2019	SCG Building Materials Co., Ltd.	1702000374	Feb 2, 2017	-	Roof tile	Feb 1, 2027
563	70402	Jun 20, 2019	SCG Building Materials Co., Ltd.	1702000376	Feb 2, 2017	-	Roof tile	Feb 1, 2027
564	70403	Jun 20, 2019	SCG Building Materials Co., Ltd.	1702000377	Feb 2, 2017	-	Roof tile	Feb 1, 2027
565	70404	Jun 20, 2019	SCG Building Materials Co., Ltd.	1702000378	Feb 2, 2017	-	Roof tile	Feb 1, 2027
566	70405	Jun 20, 2019	SCG Building Materials Co., Ltd.	1702000379	Feb 2, 2017	-	Roof tile	Feb 1, 2027
567	70406	Jun 20, 2019	SCG Building Materials Co., Ltd.	1702000380	Feb 2, 2017	-	Roof tile	Feb 1, 2027
568	70407	Jun 20, 2019	SCG Building Materials Co., Ltd.	1702000383	Feb 2, 2017	-	Roof tile	Feb 1, 2027
569	70408	Jun 20, 2019	SCG Building Materials Co., Ltd.	1702000384	Feb 2, 2017	-	Roof tile	Feb 1, 2027
570	70409	Jun 20, 2019	SCG Building Materials Co., Ltd.	1702000385	Feb 2, 2017	-	Roof tile	Feb 1, 2027
571	70410	Jun 20, 2019	SCG Building Materials Co., Ltd.	1702000386	Feb 2, 2017	-	Roof tile	Feb 1, 2027
572	70411	Jun 20, 2019	SCG Building Materials Co., Ltd.	1702000392	Feb 2, 2017	-	Roof tile	Feb 1, 2027
573	70412	Jun 20, 2019	SCG Building Materials Co., Ltd.	1702000393	Feb 2, 2017	-	Roof tile	Feb 1, 2027
574	70898	Jul 25, 2019	SCG Building Materials Co., Ltd.	1702003751	Sep 22, 2017	-	Celling Hanging device	Sep 21, 2027
575	184579	Jul 25, 2019	SCG Building Materials Co., Ltd.	1702004859	Dec 1, 2017	-	Fan control Device	Nov 30, 2027
576	71302	Aug 30, 2019	SCG Building Materials Co., Ltd.	1802001216	Mar 23, 2018	-	Ventillation system	Mar 22, 2028
577	75544	Apr 2, 2020	SCG Building Materials Co., Ltd.	1702000818	Mar 10, 2017	-	Roof tile	Mar 9, 2027
578	75545	Apr 2, 2020	SCG Building Materials Co., Ltd.	1702000819	Mar 10, 2017	-	Solar roof tile	Mar 9, 2027

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579	76830	Jun 23, 2020	SCG Building Materials Co., Ltd	1202001164	May 3, 2012	-	Building material element	May 2, 2022
580	6831	Jun 23, 2020	SCG Building Materials Co., Ltd	1202001163	May 3, 2012	-	Building material element	May 2, 2022
581	76822	Jun 23, 2020	SCG Building Materials Co., Ltd	1702001385	Apr 28, 2017	-	Wall panel	Apr 27, 2027
582	76823	Jun 23, 2020	SCG Building Materials Co., Ltd	1702001386	Apr 28, 2017	-	Wall panel	Apr 27, 2027
583	76825	Jun 23, 2020	SCG Building Materials Co., Ltd	1702001387	Apr 28, 2017	-	Wall panel	Apr 27, 2027
584	76828	Jun 23, 2020	SCG Building Materials Co., Ltd	1702001388	Apr 28, 2017	-	Wall panel	Apr 27, 2027
585	76824	Jun 23, 2020	SCG Building Materials Co., Ltd	1702001389	Apr 28, 2017	-	Wall panel	Apr 27, 2027
586	76826	Jun 23, 2020	SCG Building Materials Co., Ltd	1702001390	Apr 28, 2017	-	Wall panel	Apr 27, 2027
587	76829	Jun 23, 2020	SCG Building Materials Co., Ltd	1702001391	Apr 28, 2017	-	Wall panel	Apr 27, 2027
588	76821	Jun 23, 2020	SCG Building Materials Co., Ltd	1702001384	Apr 28, 2017	-	Wall panel	Apr 27, 2027
589	76827	Jun 23, 2020	SCG Building Materials Co., Ltd	1702003936	Sep 27, 2017	-	Wall panel	Sep 26, 2027
590	76820	Jun 23, 2020	SCG Building Materials Co., Ltd	1702004860	Dec 1, 2017	-	Pattern for display	Nov 30, 2027
591	77518	Jul 3, 2020	SCG Building Materials Co., Ltd	1602001440	Apr 22, 2016	-	Ventilating opening	Apr 21, 2026
592	77517	Jul 3, 2020	SCG Building Materials Co., Ltd	1702001615	May 15, 2017	-	Roof Ventilation tile	May 14, 2027
593	77852	Jul 29, 2020	SCG Building Materials Co., Ltd	1702004861	Dec 1, 2017	-	Pattern for display	Nov 30, 2027
594	78576	Sep 16, 2020	SCG Building Materials Co., Ltd	1702002846	Jul 27, 2017	-	Roof Cover	Jul 26, 2027
595	78581	Sep 16, 2020	SCG Building Materials Co., Ltd	1702002847	Jul 27, 2017	-	Roof Cover	Jul 26, 2027
596	78577	Sep 16, 2020	SCG Building Materials Co., Ltd	1702004173	Oct 11, 2017	-	Roof Cover	Oct 10, 2027
597	78580	Sep 16, 2020	SCG Building Materials Co., Ltd	1702004174	Oct 11, 2017	-	Roof Cover	Oct 10, 2027

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598	78579	Sep 16, 2020	SCG Building Materials Co., Ltd	1702004175	Oct 11, 2017	-	Roof Cover	Oct 10, 2027
599	Petty Patent 6471	Aug 11, 2011	SCG Building Materials Co., Ltd.	1103000368	Apr 12, 2011	Cementitious floors	-	Apr 11, 2021
600	Petty Patent 6889	Jan 26, 2012	SCG Building Materials Co., Ltd.	1103000303	Mar 25, 2011	Lath installation system	-	Mar 24, 2021
601	Petty Patent 7794	Jan 24, 2013	SCG Building Materials Co., Ltd.	1103001300	Dec 6, 2011	Rain filter	-	Dec 5, 2021
602	Petty Patent 7898	Mar 4, 2013	SCG Building Materials Co., Ltd.	1203000406	Apr 24, 2012	Foundation system	-	Apr 23, 2022
603	Petty Patent 8140	Jul 15, 2013	SCG Building Materials Co., Ltd.	1103001301	Dec 6, 2011	Rain filtration	-	Dec 5, 2021
604	Petty Patent 8327	Sep 24, 2013	SCG Building Materials Co., Ltd.	1303000079	Jan 24, 2013	Heat trapping device	-	Jan 23, 2023
605	Petty Patent 8637	Feb 12, 2014	SCG Building Materials Co., Ltd.	1303000336	Mar 27, 2013	Parts for installation frame	-	Mar 26, 2023
606	Petty Patent 8916	Jun 9, 2014	SCG Building Materials Co., Ltd.	1303000299	Mar 20, 2013	Power management unit in a building with electricity reserves in itself	-	Mar 19, 2023
607	Petty Patent 9162	Sep 24, 2014	SCG Building Materials Co., Ltd.	1303001541	Dec 6, 2013	Set adjustable fan	-	Dec 5, 2023
608	Petty Patent 9215	Oct 13, 2014	SCG Building Materials Co., Ltd.	1403000092	Feb 12, 2014	System of growing plants vertically	-	Feb 11, 2024
609	Petty Patent 9216	Oct 13, 2014	SCG Building Materials Co., Ltd.	1403000050	Jan 17, 2014	System for the installation of the roof	-	Jan 16, 2024
610	Petty Patent 9217	Oct 13, 2014	SCG Building Materials Co., Ltd.	1303001325	Oct 18, 2013	Set for roof ventilation	-	Oct 17, 2023

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611	Petty Patent 9218	Oct 13, 2014	SCG Building Materials Co., Ltd.	1303001540	Dec 6, 2013	Equipment for the installation of the roof	-	Dec 5, 2023
612	Petty Patent 9306	Nov 10, 2014	SCG Building Materials Co., Ltd.	1203000444	May 3, 2012	Installation slabs	-	May 2, 2022
613	Petty Patent 9592	Feb 27, 2015	SCG Building Materials Co., Ltd.	1403000991	Sep 1, 2014	Instance concrete bathroom floor panel	-	Aug 31, 2024
614	Petty Patent 10188	Aug 7, 2015	SCG Building Materials Co., Ltd.	1503000012	Jan 6, 2015	Roof air flow set	-	Jan 5, 2025
615	Petty Patent 10438	Sep 28, 2015	SCG Building Materials Co., Ltd.	1403000776	Jul 17, 2014	Facial setting, eaves setting tools and process of that	-	Oct 16, 2024
616	Petty Patent 10441	Sep 28, 2015	SCG Building Materials Co., Ltd.	1303001502	Nov 28, 2013	Process of fuel cell electric production for building	-	Nov 27, 2023
617	Petty Patent 10857	Dec 4, 2015	SCG Building Materials Co., Ltd.	1403001721	Dec 19, 2014	Plant pot on water surface	-	Dec18, 2024
618	Petty Patent 11005	Jan 11, 2016	SCG Building Materials Co., Ltd.	1503000330	Mar 16, 2015	Ventilation system	-	Mar 15, 2025
619	Petty Patent 11006	Jan 11, 2016	SCG Building Materials Co., Ltd.	1503000815	May 29, 2015	Apparatus for reducing thermal bridge and vibration	-	May 28, 2025
620	Petty Patent 11636	Jun 17, 2016	SCG Building Materials Co., Ltd.	1403000091	Feb 12, 2014	Receptacle	-	Feb 11,2024
621	Petty Patent 12333	Jan 20, 2017	SCG Building Materials Co., Ltd.	1503001396	Sep 4, 2015	Apparatus for reducing thermal bridge and vibration	-	Sep 3, 2025
622	Petty Patent 12334	Jan 20, 2017	SCG Building Materials Co., Ltd.	1603000755	May 4, 2016	Bathtub Set	-	May 3, 2026
623	Petty Patent	Jul 14, 2017	SCG Building Materials Co., Ltd.	1503001858	Oct 30, 2015	Lighting control system	-	Oct 29, 2025



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	12857							
624	Petty Patent 13813	May 3, 2018	SCG Building Materials Co., Ltd.	1603002401	Nov 21, 2016	Wall installation system	-	Nov 20, 2026
625	Petty Patent 13862	May 17, 2018	SCG Building Materials Co., Ltd.	1703000917	Mar 31, 2017	Ventilation system	-	Mar 30, 2027
626	Petty Patent 13861	May 17, 2018	SCG Building Materials Co., Ltd.	1703000916	Mar 31, 2017	Ventilation system	-	Mar 30, 2027
627	Petty Patent 14048	Jul 3, 2018	SCG Building Materials Co., Ltd.	1603000655	Apr 22, 2016	Air grill	-	Apr 21, 2026
628	Petty Patent 14706	Dec 13, 2018	SCG Building Materials Co., Ltd.	1703001857	Sep 22, 2017	Apparatus for cutting heat insulation and vibration damping	-	Sep 21, 2027
629	Petty Patent 14851	Jan 23, 2019	SCG Building Materials Co., Ltd	1703000719	Apr 28, 2017	Installation of wall panel	-	Apr 27, 2027
630	Petty Patent 15233	Jun 7, 2019	SCG Building Materials Co., Ltd	1703002028	Oct 11, 2017	Roof cover	-	Oct 10, 2027
631	Petty Patent 15696	Nov 14, 2019	SCG Building Materials Co., Ltd	1703002120	Oct 25, 2017	Cover panel with ventilation	-	Oct 24, 2027
632	Petty Patent 15697	Nov 14, 2019	SCG Building Materials Co., Ltd	1703000718	Apr 28, 2017	Shock absorption floor	-	Apr 27, 2027
633	Petty Patent 15741	Dec 6, 2019	SCG Building Materials Co., Ltd	1703000717	Apr 28, 2017	Flooring tiles	-	Apr 27, 2027
634	Petty Patent 15928	Feb 17, 2020	SCG Building Materials Co., Ltd	1703001275	Jul 14, 2017	Roof Panel	-	Jul 13, 2027
635	Petty Patent 15929	Feb 17, 2020	SCG Building Materials Co., Ltd	1703001371	Jul 27, 2017	Building Ventilation System	-	Jul 26, 2027

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636	Petty Patent 15930	Feb 17, 2020	SCG Building Materials Co., Ltd	1803002230	Sep 28, 2018	Planting container	-	Sep 27, 2028
637	Petty Patent 16398	Jun 23, 2020	SCG Building Materials Co., Ltd	1703001858	Sep 22, 2017	Motion Detector	-	Sep 21, 2027
638	Petty Patent 16597	Aug 11, 2020	SCG Building Materials Co., Ltd	1703001370	Jul 27, 2017	Building Ventilation System	-	Jul 26, 2027
639	Petty Patent 16797	Sep 30, 2020	SCG Building Materials Co., Ltd	1803000694	Mar 23, 2018	Floor tile	-	Mar 22, 2028
640	Petty Patent 16977	Nov 26, 2020	SCG Building Materials Co., Ltd	1803000695	Mar 23, 2018	Floor tile	-	Mar 22, 2028
641	ZL200710305114.7 (China)	Aug 7, 2011	SCG Building Materials Co., Ltd.	ZL200710305114.7	Sep 20, 2007	Apparatus and method for forming a pattern in ceramic tile or slab with prescribed thickness	-	Sep 19, 2027
642	US8333916B2 (USA)	Dec 18, 2012	SCG Building Materials Co., Ltd.	11/859684	Sep 21, 2007	Apparatus and method for forming a pattern in ceramic tile or slab with prescribed thickness	-	Sep 20, 2027
643	11310 (Vietnam)	Apr 16, 2013	SCG Building Materials Co., Ltd.	1-2007-01913	Sep 20, 2007	Apparatus and method for forming a pattern in ceramic tile or slab with prescribed thickness	-	Sep 19, 2027
644	EP2036694B1 (Italy)	Mar 5, 2014	SCG Building Materials Co., Ltd.	07116535.1	Sep 17, 2007	Apparatus and method for forming a pattern in ceramic tile or slab with prescribed thickness	-	Sep 16, 2027

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645	EP2036694 (Spain)	Mar 5, 2014	SCG Building Materials Co., Ltd.	07116535.1	Sep 17, 2007	Apparatus and method for forming a pattern in ceramic tile or slab with prescribed thickness	-	Sep 16, 2027
646	602007035323.8 (Germany)	Mar 5, 2014	SCG Building Materials Co., Ltd.	07450217.0	Apr 27, 2007	A device for making continuous veining of desired patterns extending through the entire thickness of a product, a process of making thereof	-	Apr 26, 2027
647	2065150 (Italy)	Mar 5, 2014	SCG Building Materials Co., Ltd.	07450217.0	Apr 27, 2007	A device for making continuous veining of desired patterns extending through the entire thickness of a product, a process of making thereof	-	Apr 26, 2027
648	2065150 (Spain)	Mar 5, 2014	SCG Building Materials Co., Ltd.	07450217.0	Apr 27, 2007	A device for making continuous veining of desired patterns extending through the entire thickness of a product, a process of making thereof	-	Apr 26, 2027



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649	ZL2017303396490 (China)	Jan 5, 2018	SCG Building Materials Co., Ltd.	2017303396490	Jul 28, 2017	-	Roof tile	Jul 27, 2027
650	ZL2017303393539 (China)	Jan 30, 2018	SCG Building Materials Co., Ltd.	2017303393539	Jul 28, 2017	-	Roof tile	Jul 27, 2027
651	68537 (India)	Nov 22, 2018	SCG Building Materials Co., Ltd.	296226	Jul 28, 2017	-	Roof tile	Jul 27, 2027
652	63841 (India)	Mar 22, 2018	SCG Building Materials Co., Ltd.	29227	Jul 28, 2017	-	Roof tile	Jul 27, 2027
653	50454	Jul 15, 2016	SCG Ceramics Public	1302000201	Feb 1, 2013	-	Floor tile	Jan 31, 2023
654	61920	Apr 11, 2018	SCG Ceramics Public	1602000240	Jan 29, 2016	-	Floor and wall tile	Jan 28, 2026
655	61921	Apr 11, 2018	SCG Ceramics Public	1602000241	Jan 29, 2016	-	Floor and wall tile	Jan 28, 2026
656	61925	Apr 11, 2018	SCG Ceramics Public	1602000693	Mar 1, 2016	-	Floor and wall tile	Feb 28, 2026
657	71886	Oct 4, 2019	SCG Ceramics Public	1702001123	Mar 31, 2017	-	Patterned of Floor and wall tile	Mar 30, 2027
658	71887	Oct 4, 2019	SCG Ceramics Public	1702001124	Mar 31, 2017	-	Patterned of Floor and wall tile	Mar 30, 2027
659	71888	Oct 4, 2019	SCG Ceramics Public	1702001125	Mar 31, 2017	-	Patterned of Floor and wall tile	Mar 30, 2027
660	71889	Oct 4, 2019	SCG Ceramics Public	1702001126	Mar 31, 2017	-	Patterned of Floor and wall tile	Mar 30, 2027
661	73001	Dec 6, 2019	SCG Ceramics Public	1702001127	Mar 31, 2017	-	Patterned of Floor and wall tile	Mar 30, 2027
662	73002	Dec 6, 2019	SCG Ceramics Public	1702001128	Mar 31, 2017	-	Patterned of Floor and wall tile	Mar 30, 2027
663	73003	Dec 6, 2019	SCG Ceramics Public	1702001129	Mar 31, 2017	-	Patterned of Floor and wall tile	Mar 30, 2027

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							wall tile	
664	73004	Dec 6, 2019	SCG Ceramics Public	1702001130	Mar 31, 2017	-	Patterned of Floor and wall tile	Mar 30, 2027
665	73005	Dec 6, 2019	SCG Ceramics Public	1702001131	Mar 31, 2017	-	Patterned of Floor and wall tile	Mar 30, 2027
666	73006	Dec 6, 2019	SCG Ceramics Public	1702001132	Mar 31, 2017	-	Patterned of Floor and wall tile	Mar 30, 2027
667	73007	Dec 6, 2019	SCG Ceramics Public	1702001133	Mar 31, 2017	-	Patterned of Floor and wall tile	Mar 30, 2027
668	73008	Dec 6, 2019	SCG Ceramics Public	1702001134	Mar 31, 2017	-	Patterned of Floor and wall tile	Mar 30, 2027
669	73009	Dec 6, 2019	SCG Ceramics Public	1702001135	Mar 31, 2017	-	Patterned of Floor and wall tile	Mar 30, 2027
670	73010	Dec 6, 2019	SCG Ceramics Public	1702001137	Mar 31, 2017	-	Patterned of Floor and wall tile	Mar 30, 2027
671	73011	Dec 6, 2019	SCG Ceramics Public	1702001138	Mar 31, 2017	-	Patterned of Floor and wall tile	Mar 30, 2027
672	73012	Dec 6, 2019	SCG Ceramics Public	1702001139	Mar 31, 2017	-	Patterned of Floor and wall tile	Mar 30, 2027
673	73013	Dec 6, 2019	SCG Ceramics Public	1702001140	Mar 31, 2017	-	Patterned of Floor and wall tile	Mar 30, 2027
674	73014	Dec 6, 2019	SCG Ceramics Public	1702001142	Mar 31, 2017	-	Patterned of Floor and wall tile	Mar 30, 2027
675	73015	Dec 6, 2019	SCG Ceramics Public	1702001143	Mar 31, 2017	-	Patterned of Floor and wall tile	Mar 30, 2027

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							wall tile	
676	73018	Dec 6, 2019	SCG Ceramics Public	1702001141	Mar 31, 2017	-	Patterned of Floor and wall tile	Mar 30, 2027
677	73019	Dec 6, 2019	SCG Ceramics Public	1702001136	Mar 31, 2017	-	Patterned of Floor and wall tile	Mar 30, 2027
678	77922	Aug 11, 2020	SCG Ceramics Public	1802001642	Apr 24, 2018	-	Patterned of Floor and wall tile	Apr 23, 2028
679	185121	Sep 16, 2020	SCG Ceramics Public	1802001659	Apr 24, 2018	-	Floor and wall tile	Apr 23, 2028
680	78584	Sep 16, 2020	SCG Ceramics Public	1802001660	Apr 24, 2018	-	Floor and wall tile	Apr 23, 2028
681	78578	Sep 16, 2020	SCG Ceramics Public	1802001652	Apr 24, 2018	-	Floor and wall tile	Apr 23, 2028
682	78585	Sep 16, 2020	SCG Ceramics Public	1802001653	Apr 24, 2018	-	Floor and wall tile	Apr 23, 2028
683	78575	Sep 16, 2020	SCG Ceramics Public	1802001654	Apr 24, 2018	-	Floor and wall tile	Apr 23, 2028
684	78586	Sep 16, 2020	SCG Ceramics Public	1802001655	Apr 24, 2018	-	Floor and wall tile	Apr 23, 2028
685	78582	Sep 16, 2020	SCG Ceramics Public	1802001656	Apr 24, 2018	-	Floor and wall tile	Apr 23, 2028
686	Petty Patent 10186	Aug 7, 2015	SCG Ceramics Public	1503000634	Apr 30, 2015	Adjust surfact and setting trowel	-	Apr 30, 2025
687	Petty Patent 10439	Sep 28, 2015	SCG Ceramics Public	1503000635	Apr 30, 2015	Setting trowel	-	Apr 30, 2025
688	40369	Jun 9, 2014	SCG Landscape Co.,Ltd.	1102003513	Dec 6, 2011	-	Package	Dec 5, 2021
689	44002	Apr 30, 2015	SCG Landscape Co.,Ltd.	1102003514	Dec 6, 2011	-	Floor and wall tile	Dec 6, 2021
690	46643	Oct 27, 2015	SCG Landscape Co.,Ltd.	1102003516	Dec 6, 2011	-	Seat	Dec 6, 2021
691	58154	Oct 11, 2017	SCG Landscape Co.,Ltd.	1402000975	Apr 25, 2014	-	Floor and wall tile	Apr 24, 2024
692	58155	Oct 11, 2017	SCG Landscape Co.,Ltd.	1402000974	Apr 25, 2014	-	Floor and wall tile	Apr 24, 2024



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693	60015	Jan 12, 2018	SCG Landscape Co.,Ltd.	1402001809	Jul 17, 2014	-	Floor block	Jul 16, 2024
694	60009	Jan 12, 2018	SCG Landscape Co.,Ltd.	1402003353	Oct 30, 2014	-	Floor tile	Oct 29, 2024
695	60010	Jan 12, 2018	SCG Landscape Co.,Ltd.	1402003352	Oct 30, 2014	-	Floor tile	Oct 29, 2024
696	60011	Jan 12, 2018	SCG Landscape Co.,Ltd.	1402003351	Oct 30, 2014	-	Floor tile	Oct 29, 2024
697	60012	Jan 12, 2018	SCG Landscape Co.,Ltd.	1402003350	Oct 30, 2014	-	Floor tile	Oct 29, 2024
698	60013	Jan 12, 2018	SCG Landscape Co.,Ltd.	1402003349	Oct 30, 2014	-	Floor tile	Oct 29, 2024
699	60806	Feb 16, 2018	SCG Landscape Co.,Ltd.	1502001857	Jun 12, 2015	-	Brick	Jun 11, 2025
700	60807	Feb 16, 2018	SCG Landscape Co.,Ltd.	1502001858	Jun 12, 2015	-	Brick	Jun 11, 2025
701	60814	Feb 16, 2018	SCG Landscape Co.,Ltd.	1502001859	Jun 12, 2015	-	Brick	Jun 11, 2025
702	60815	Feb 16, 2018	SCG Landscape Co.,Ltd.	1502001860	Jun 12, 2015	-	Brick	Jun 11, 2025
703	61795	Apr 4, 2018	SCG Landscape Co.,Ltd.	1502001376	Apr 27, 2015	-	Flowerpot	Apr 26, 2025
704	71654	Sep 23, 2019	SCG Roofing Co., Ltd.	1201002592	Jun 1, 2012	Safety hook for roof tiles	-	May 31,2032
705	73777	Jan 16, 2020	SCG Roofing Co., Ltd.	1001001355	Sep 3, 2010	Fall protection for roof tiles	-	Sep 2, 2020
706	73778	Jan 16, 2020	SCG Roofing Co., Ltd.	1001001891	Dec 13, 2010	Lifeline safety for roof tiles	-	Dec 12, 2020
707	44791	Jun 25, 2015	SCG Roofing Co., Ltd.	1102002691	Sep 6, 2011	-	Roof bracked element	Sep 6, 2021
708	51074	Sep 6, 2016	SCG Roofing Co., Ltd.	1102000098	Jan 11, 2011	-	Fastener	Jan 10, 2021
709	52232	Nov 4, 2016	SCG Roofing Co., Ltd.	1402000099	Jan 17, 2014	-	Fastener	Jan 16, 2024
710	52233	Nov 4, 2016	SCG Roofing Co., Ltd.	1402000100	Jan 17, 2014	-	Fastener	Jan 16, 2024
711	55987	Jul 14, 2017	SCG Roofing Co., Ltd.	1502000543	Feb 27, 2015	-	Bracked element	Feb 26, 2025
712	55989	Jul 14, 2017	SCG Roofing Co., Ltd.	1502000544	Feb 27, 2015	-	Bracked element	Feb 26, 2025
713	60016	Jan 12, 2018	SCG Roofing Co., Ltd.	1402001810	Jul 17, 2014	-	Building material element	Jul 16, 2024

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714	61573	Mar 23, 2018	SCG Roofing Co., Ltd.	1602000766	Mar 7, 2016	-	Roof tile	Mar 6, 2026
715	64257	Aug 16, 2018	SCG Roofing Co., Ltd.	1602003634	Sep 21, 2016	-	Roof tile	Sep 20, 2026
716	73000	Dec 6, 2019	SCG Roofing Co., Ltd.	1602001694	May 4, 2016	-	Roof tile	May 3, 2026
717	77521	Jul 3, 2020	SCG Roofing Co., Ltd.	1602003417	Sep 6, 2016	-	Roof tile	Sep 5, 2026
718	77519	Jul 3, 2020	SCG Roofing Co., Ltd.	1702000697	Sep 2, 2017	-	Roof Cover	Sep 1, 2027
719	77520	Jul 3, 2020	SCG Roofing Co., Ltd.	1702000698	Sep 2, 2017	-	Roof Cover	Sep 1, 2027
720	79307	Jul 20, 2020	SCG Roofing Co., Ltd.	1802002254	Jun 8, 2018	-	Roof tile	Jun 7, 2028
721	80231	Dec 14, 2020	SCG Roofing Co., Ltd.	1802002794	Jul 10, 2018	-	Roof Cover	Jul 9, 2028
722	Petty Patent 8719	Mar 14, 2014	SCG Roofing Co., Ltd	1203001424	Jun 1, 2012	Roof tiles	-	May 31, 2022
723	Petty Patent 10187	Aug 7, 2015	SCG Roofing Co., Ltd.	1403000775	Jul 17, 2014	Process of cover gable setting	-	Jul 16, 2024
724	Petty Patent 11253	Mar 7, 2016	SCG Roofing Co., Ltd.	1503000803	May 29, 2015	Sky walker	-	May 28, 2025
725	Petty Patent 14513	Oct 25, 2018	SCG Roofing Co., Ltd.	1703002027	Oct 11, 2017	Eaves	-	Oct 10, 2027
726	Petty Patent 16598	Oct 11, 2020	SCG Roofing Co., Ltd.	1903002592	Oct 4, 2019	Animal Protection System for roof	-	Oct 3, 2029
727	Petty Patent 9002	Jul 23, 2014	SCG Trading Co., Ltd.	1103000443	May 3, 2011	Liquid coal fuel	-	May 2, 2021
728	72311	Oct 31, 2019	Siam Sanitary Ware Co.,Ltd.	1201002379	May 23, 2012	toilet	-	May 22, 2032
729	72312	Oct 31, 2019	Siam Sanitary Ware Co.,Ltd.	1301005911	Oct 15, 2013	Toilet and flushing system	-	Oct 14, 2033



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730	72313	Oct 31, 2019	Siam Sanitary Ware Co.,Ltd.	1501001269	Mar 9, 2015	Automatic sheet support system for sanitary ware production	-	Mar 8, 2035
731	40572	Jun 25, 2014	Siam Sanitary Ware Co.,Ltd.	1102001262	Apr 29, 2011	-	Tap	Apr 28, 2021
732	41048	Aug 6, 2014	Siam Sanitary Ware Co.,Ltd.	1102001263	Apr 29, 2011	-	Sink	Apr 28, 2021
733	41049	Aug 6, 2014	Siam Sanitary Ware Co.,Ltd.	1102001261	Apr 29, 2011	-	Sink	Apr 28, 2021
734	41695	Oct 1, 2014	Siam Sanitary Ware Co.,Ltd.	1102003640	Dec 20, 2011	-	Toilet	Dec 19, 2021
735	42053	Nov 11, 2014	Siam Sanitary Ware Co.,Ltd.	1102001259	Apr 29, 2011	-	Sink	Apr 28, 2021
736	42054	Nov 11, 2014	Siam Sanitary Ware Co.,Ltd.	1102001260	Apr 29, 2011	-	Sink	Apr 28, 2021
737	43147	Mar 9, 2015	Siam Sanitary Ware Co.,Ltd.	1202001026	Apr 23, 2012	-	Water tank	Apr 23, 2022
738	51555	Sep 27, 2016	Siam Sanitary Ware Co.,Ltd.	1302001680	Jun 19, 2013	-	Water tank	Jun 18, 2023
739	51556	Sep 27, 2016	Siam Sanitary Ware Co.,Ltd.	1302001681	Jun 19, 2013	-	Water tank	Jun 18, 2023
740	51557	Sep 27, 2016	Siam Sanitary Ware Co.,Ltd.	1302001682	Jun 19, 2013	-	Water tank	Jun 18, 2023
741	51558	Sep 27, 2016	Siam Sanitary Ware Co.,Ltd.	1302001683	Jun 19, 2013	-	Water tank	Jun 18, 2023
742	51559	Sep 27, 2016	Siam Sanitary Ware Co.,Ltd.	1302001684	Jun 19, 2013	-	Water tank	Jun 18, 2023
743	51560	Sep 27, 2016	Siam Sanitary Ware Co.,Ltd.	1302001685	Jun 19, 2013	-	Water tank	Jun 18, 2023
744	51562	Sep 27, 2016	Siam Sanitary Ware Co.,Ltd.	1302002772	Oct 7, 2013	-	Toilet	Oct 6, 2023
745	51563	Sep 27, 2016	Siam Sanitary Ware Co.,Ltd.	1302002773	Oct 7, 2013	-	Toilet	Oct 6, 2023
746	51564	Sep 27, 2016	Siam Sanitary Ware Co.,Ltd.	1302002775	Oct 7, 2013	-	Toilet	Oct 6, 2023
747	51565	Sep 27, 2016	Siam Sanitary Ware Co.,Ltd.	1302002776	Oct 7, 2013	-	Sink	Oct 6, 2023
748	51566	Sep 27, 2016	Siam Sanitary Ware Co.,Ltd.	1302002777	Oct 7, 2013	-	Sink	Oct 6, 2023
749	51567	Sep 27, 2016	Siam Sanitary Ware Co.,Ltd.	1302002778	Oct 7, 2013	-	Sink	Oct 6, 2023
750	51940	Oct 18, 2016	Siam Sanitary Ware Co.,Ltd.	1302002774	Oct 7, 2013	-	Toilet	Oct 6, 2023
751	54269	Mar 16, 2017	Siam Sanitary Ware Co.,Ltd.	1402002184	Aug 6, 2014	-	Sink	Aug 5, 2024

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
752	71216	Aug 22, 2019	Siam Sanitary Ware Co.,Ltd.	1802000452	Jan 30, 2018	-	Cover seat	Jan 19, 2028
753	40144	May 23, 2014	Siam Sanitary Fitting Co.,Ltd.	1102001189	Apr 21, 2011	-	Tap	Apr 20, 2021
754	49197	Apr 21, 2016	Siam Sanitary Fitting Co.,Ltd.	1202001997	Jul 30, 2012	-	Valve	Jul 29, 2022
755	54455	Mar 28, 2017	Siam Sanitary Fitting Co.,Ltd.	1402000964	Apr 24, 2014	-	Tap	Apr 23, 2024
756	55511	Jun 19, 2017	Siam Sanitary Fitting Co.,Ltd.	1402000963	Apr 24, 2014	-	Tap	Apr 23, 2024
757	61965	Apr 17, 2018	Siam Sanitary Fitting Co.,Ltd.	1602001432	Apr 21, 2016	-	Handrail for toilet	Apr 20, 2026
758	61966	Apr 17, 2018	Siam Sanitary Fitting Co.,Ltd.	1602001860	May 18, 2016	-	Handrail	May17, 2026
759	61967	Apr 17, 2018	Siam Sanitary Fitting Co.,Ltd.	1602001861	May 18, 2016	-	Handrail	May17, 2026
760	61968	Apr 17, 2018	Siam Sanitary Fitting Co.,Ltd.	1602001862	May 18, 2016	-	Handrail	May17, 2026
761	62930	Jun 12, 2018	Siam Sanitary Fitting Co.,Ltd.	1602001431	Apr 21, 2016	-	Tap	Apr 20, 2026
762	66002	Nov 2, 2018	Siam Sanitary Fitting Co.,Ltd.	1602001430	Apr 21, 2016	-	Tap	Apr 20, 2026
763	74764	Jul 12, 2019	Siam Sanitary Fitting Co.,Ltd.	1702002392	Jun 27, 2017	-	Tap	Jun 26, 2027
764	74765	Jul 12, 2019	Siam Sanitary Fitting Co.,Ltd.	1702002393	Jun 27, 2017	-	Tap	Jun 26, 2027
765	Petty Patent 9302	Nov 7, 2014	Siam Sanitary Fitting Co.,Ltd.	1403000383	Apr 24, 2014	Tap	-	Apr 23, 2024
766	73016	Dec 6, 2018	SCG Cement-Building Materials Co., Ltd	1702001283	Apr 12, 2017	-	Wall panel	Apr 11, 2027
767	73017	Dec 6, 2018	SCG Cement-Building Materials Co., Ltd	1702001284	Apr 12, 2017	-	Wall panel	Apr 11, 2027
768	Petty Patent 12995	Aug 22, 2017	SCG Cement-Building Materials Co., Ltd.	1703000308	Feb 24, 2017	Apparatus for testing wall	-	Feb 23, 2027
769	Petty Patent 16798	Sep 30, 2020	SCG Cement-Building Materials Co., Ltd	1803002977	Dec 24, 2018	Apparatus for turning a Patient in bed	-	Dec 23, 2028

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
770	Petty Patent 16799	Sep 30, 2020	SCG Cement-Building Materials Co., Ltd	1803002978	Dec 24, 2018	Apparatus for turning a Patient in bed	-	Dec 23, 2028
771	Petty Patent 15234	Jun 7, 2019	Siam Fiberglass Co., Ltd.	1703000715	Apr 28, 2017	Sound insulation sheet	-	Apr 27, 2027
<b>Chemicals Business and Cement-Building Materials Business</b>								
772	11201402718T (Singapore)	Jun 22, 2016	SCG Chemicals Co., Ltd. and Siam Refractory Industry Co., Ltd.	11201402718T	Feb 29, 2012	High emissivity coating compositions and manufacturing processes therefore	-	Feb 28, 2032
773	I500721 (Taiwan)	Jul 29, 2015	SCG Chemicals Co., Ltd. and Siam Refractory Industry Co., Ltd.	102107293	Mar 1, 2013	High emissivity coating compositions and manufacturing processes therefore	-	Feb 28, 2033
774	2.863.294 (Canada)	Aug 16, 2016	SCG Chemicals Co., Ltd. and Siam Refractory Industry Co., Ltd.	2.863.294	Feb 29, 2012	High emissivity coating compositions and manufacturing processes therefore	-	Feb 28, 2032
775	5982502 (Japan)	Aug 31, 2016	SCG Chemicals Co., Ltd. and Siam Refractory Industry Co., Ltd.	2014-559867	Apr 2, 2014	High emissivity coating compositions and manufacturing processes therefore	-	Apr 1, 2034
776	9,587,120B2 (USA)	Mar 7, 2017	SCG Chemicals Co., Ltd. and Siam Refractory Industry Co., Ltd	14/240,550	Feb 24, 2014	High emissivity coating compositions and	-	Feb 23, 2034

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
						manufacturing processes therefore		
777	602012030318.2 (Germany)	Mar 22, 2017	SCG Chemicals Co., Ltd. and Siam Refractory Industry Co., Ltd	12869694.5	Feb 29, 2012	High emissivity coating compositions and manufacturing processes therefore	-	Feb 28, 2032
778	2820364 (Netherland)	Mar 22, 2017	SCG Chemicals Co., Ltd. and Siam Refractory Industry Co., Ltd	12869694.5	Feb 29, 2012	High emissivity coating compositions and manufacturing processes therefore	-	Feb 28, 2032
779	2820364 (France)	Mar 22, 2017	SCG Chemicals Co., Ltd. and Siam Refractory Industry Co., Ltd	12869694.5	Feb 29, 2012	High emissivity coating compositions and manufacturing processes therefore	-	Feb 27, 2032
780	2820364 (Great Britain)	Mar 22, 2017	SCG Chemicals Co., Ltd. and Siam Refractory Industry Co., Ltd	12869694.5	Feb 29, 2012	High emissivity coating compositions and manufacturing processes therefore	-	Feb 27, 2032
781	1908000 (Republic of Korea)	Oct 8, 2018	SCG Chemicals Co., Ltd. and Siam Refractory Industry Co., Ltd	2014-7018583	Jul 4, 2014	High emissivity coating compositions and manufacturing processes therefore	-	Jul 3, 2034
782	6461050	Jan 30, 2019	SCG Chemicals Co., Ltd. and	2016-127184	Jun 28, 2016	High emissivity coating	-	Feb 27, 2032

No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
	(Japan)		Siam Refractory Industry Co., Ltd			composition and manufacturing process thereof		(PCT filing date Feb 29, 2014)
783	10,400,150 (USA)	Oct 8, 2019	SCG Chemicals Co., Ltd. and Siam Refractory Industry Co., Ltd	15/421,241	Jan 31, 2017	High emissivity coating composition and manufacturing process thereof	-	Feb 27, 2032  (PCT filing date Feb 29, 2014)
784	75579 (Thailand)	Apr 10,2020	SCG Chemicals Co., Ltd. and Siam Refractory Industry Co., Ltd	1301001031	Feb 28, 2013	High emissivity coating composition and manufacturing process thereof	-	Feb 27, 2032  (PCT filing date Feb 29, 2014)
785	70030	May 29, 2019	SCG Chemicals Co., Ltd. and Cement Thai Energy Conservation Co.,Ltd.	1702003753	Sep 22, 2017	-	Solar Floating System	Sep 21, 2037
786	70031	May 29, 2019	SCG Chemicals Co., Ltd. and Cement Thai Energy Conservation Co.,Ltd.	1702003754	Sep 22, 2017	-	Solar Floating System	Sep 21, 2037
<b>Packaging Business and Cement-Building Materials Business</b>								
787	Petty Patent 15003	Mar 12, 2019	SCG Packaging PLC. and SCG Cement-Building Materials Co., Ltd.	1703000534	Mar 29, 2017	Binder with lime mud	-	Mar 28, 2027



No.	Patent Number	Registration Date	Assignee	Application Number	Filing Date	Patent/Petty Patent	Design Patent	Expiry Date
<b>Packaging Business and Chemicals Business</b>								
788	Petty Patent 16520	Jul 22, 2020	Thai Paper Co.,Ltd. and Nawa Intertech Co.,Ltd.	1903002389	Sep 16, 2019	Folding apparatus for paper container forming machine	-	Sep 15, 2029
789	Petty Patent 16521	Jul 22, 2020	Thai Paper Co.,Ltd. and Nawa Intertech Co.,Ltd.	1903002390	Sep 16, 2019	Paper container forming machine	-	Sep 15, 2029



- **Concession**

Concessions in limestone and gypsum mines are long-lived. Their maturities have been continuously extended because cement is a fundamental product for construction and infrastructure related to the country's economy.

Details of utilized concessions of The Siam Cement Public Company Limited and Companies Cement-Building Materials Business are shown in below table

Concessionaire	Location	Type of Mineral	Number of Concession (Copies)	Type of Area	Area (Rai)	Remaining Years of Concession	Expiry Year
The Siam Cement PLC.	Saraburi	Limestone for cement industry	15	RFD	3,312	15	2036
			1	RFD	96	7	2028
		2	RFD	139	11	2032	
	Nakorn Sawan	Gypsum	1	RFD	298	10	2031
			1	RFD	278	4	2025
SCG Cement Co., Ltd.	Lampang	Lignite, ball clay	1	RFD	210	11	2032
The Siam Cement (Lampang) Co., Ltd.	Lampang	Limestone for cement industry	17	RFD	4,977	21	2042
			2	RFD	596	18	2039
		Shale for cement industry	3	RFD	846	21	2042
			1	Owned by the company	51	8	2029
		1	Owned by the company	280	14	2035	
The Siam Cement (Kaeng Khoi) Co., Ltd.	Saraburi	Limestone for cement industry	10	RFD	2,571	6	2027
			3	Owned by the company	874	6	2027
	Lopburi	Industrial clay for cement industry	1	Owned by the company	218	17	2038

Concessionaire	Location	Type of Mineral	Number of Concession (Copies)	Type of Area	Area (Rai)	Remaining Years of Concession	Expiry Year
The Siam Cement (Kaeng Khoi) Co., Ltd.	Prachinburi	Industrial clay for cement industry	2	Owned by the company	507	16	2037
	Nakhon Ratchasima	Industrial clay for cement industry	4	Owned by the company	997	21	2042
The Siam Cement (Ta Luang) Co., Ltd.		Limestone for cement industry	5	RFD	956	9	2030
			13	RFD	3,877	21	2042
	Saraburi	Industrial clay for cement industry	1	Owned by the company	280	5	2026
			3	Owned by the company	840	17	2038
			1	Owned by the company	86	3	2024
			1	Owned by the company	208	20	2041
The Siam Cement (Thung Song) Co., Ltd.	Nakorn Sri Thammarat	Limestone for cement industry	19	RFD	4,971	14	2035
			1	Owned by the company	118	20	2041
		1	Owned by the company	65	12	2033	
	Krabi	Industrial clay for cement industry	2	Owned by the company	372	17	2038
	Suratthani	Gypsum	1	Owned by the company	39	5	2026
Silasanon Co., Ltd.	Saraburi	Limestone for cement industry, Limestone for white cement and limestone for building industry	1	RFD	257	13	2034



Concessionaire	Location	Type of Mineral	Number of Concession (Copies)	Type of Area	Area (Rai)	Remaining Years of Concession	Expiry Year
Silathai Sanguan (2540) Co., Ltd.	Khonkaen	Limestone for construction industry	1	Owned by the company	167	In process of renewal	2020
Khammouane Cement Co., Ltd.	Laos	Limestone for cement industry	1	RFD	21,500 (3,440 ha)	26	2047
		Laterite for cement industry			5,300 (848 ha)	26	2047
		Clay			4,675 (748 ha)	26	2047
Kampot Cement Co.,Ltd.	Cambodia	Limestone for cement industry	1	Ministry of industry, Mines and Energy	6,133	45	2066
PT Tambang Semen Sukabumi (For PT.Semen Jawa)	Indonesia	Limestone for cement industry (Mt. Guha)	1	Ministry of forestry	3,006	17	2038
		Limestone for cement industry (Mt. Batu)	1	Owned by resident	741	18	2039
		Shale for cement industry	1	Ministry of forestry	743	17	2038
Mawlamyine Cement Limited	Myanmar	Limestone for cement industry	1	Ministry of forestry	800 (320 Acre)	15	2036

- **BOI Certificates**

SCG adheres to the policy to apply for the BOI's privileges in every business it is eligible for. The Group believes that it can fully operate under all BOI's rules and regulations due to its transparent operation based on good corporate governance.

- **Chemicals Business**

The Business acquired BOI tax incentives such as machinery import duty exemption, corporate tax exemption for 8 years from the date of first revenue received, and 50 percent reduction of corporate income tax for 5 years after the exemption period. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
R&D (SCG Chem) - New process/ process improvement for Polyethylene	May 6, 2011	Oct, 2026
R&D (SCG Chem) - New product / new technology in Petrochemicals	Nov 10, 2011	Dec, 2024
R&D (SCG Chem) - Synthesis of new chemicals products for industrial use	Sep 9, 2015	13 years from the date of first revenue received
Calibration	May 22, 2012 May 22, 2014 July 24, 2019	Nov, 2025 Feb, 2030 13 years from the date of first revenue received
Scientific testing services (CI BOT)	Feb 16, 2016	Nov, 2030
Scientific testing services (Oval BOT)	Feb 16, 2016	13 years from the date of first revenue received
Human resources development	Dec 16, 2011	Jan, 2027
Mould	Nov 25, 2010	Nov, 2023
Automation System Integration Machine	Oct 25, 2018 Dec 13, 2018	Feb, 2032 13 years from the date of first revenue received
Scientific testing services (ADC)	Feb 15, 2019	13 years from the date of first revenue received

The Business acquired BOI tax incentives such as machinery import duty exemption, corporate tax exemption for 8 years in an amount equivalent to 100% of an investment amount excluding cost of land and working capital for the projects from the date of first revenue received, and 50 percent reduction of corporate income tax for 5 years after the exemption period. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
PP 3	Nov 1, 2013	Mar, 2023
HDPE 4	Nov 1, 2013	Feb, 2023
Jetty and terminal	Dec 12, 2007	Mar, 2023

Project	Date Acquired	Expiry of Tax Incentives
	Aug 14, 2009 Mar 5, 2010 Jun 26, 2012 Aug 4, 2014	Sep, 2023 May, 2024 Dec, 2025 Mar, 2028
Olefins (MOC)	Dec 25, 2006	Dec, 2022
Styrene Monomer	Apr 19, 2018	13 years from the date of first revenue received
Ethylene and Propylene (Side Cracker)	Apr 23, 2018	13 years from the date of first revenue received
PE compound	Nov 1, 2013 Jan 5, 2015 Jan 5, 2015	Jul, 2020 Mar, 2026 Feb, 2028
Steam	Nov 1, 2013	Apr, 2024
Catalyst	Nov 1, 2013	Aug, 2033
Industrial wax	Nov 1, 2013	Nov, 2026
LDPE (DPEX)	Nov 22, 2013	Apr, 2030
Waste water treatment, plant industrial waste and toxic chemicals management	Mar 20, 2008	Apr, 2023
PVC resin	Aug 5, 2005	Jul, 2020
Profile, pipe, fitting	Oct 01, 2019 Oct 01, 2019 Oct 01, 2019 Oct 01, 2019 Oct 01, 2019 Oct 01, 2019 Oct 01, 2019 Oct 01, 2019 Oct 01, 2019 Oct 01, 2019 Oct 01, 2019	Mar, 2020 Jan, 2024 May, 2024 Mar, 2025 Oct, 2025 Mar, 2025 Oct, 2027 Feb, 2029 Sep, 2029 Jan, 2033 13 years from the date of first revenue received
Recycling and reuse of unwanted material	Oct 16, 2013	Sep, 2030
Floating solar farm	Aug 22, 2017	May, 2032
Solar farm	Mar 29, 2018	Dec, 2031
Jigs and Metal Parts	Dec 27, 2017 Dec 27, 2017	13 years from the date of first revenue received 13 years from the date of

Project	Date Acquired	Expiry of Tax Incentives
	Dec 27, 2017	first revenue received 13 years from the date of first revenue received

The project which receives corporate tax exemption for 8 years from the first date revenue received but doesn't receive corporate tax reduction. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
R&D (SCG Chem) - Process for removing impurity of aromatic in Petrochemicals	Aug 27, 2009	8 years from the date of first revenue received
R&D (SCG Chem) - New catalyst for Petrochemicals	Oct 20, 2011	8 years from the date of first revenue received
R&D (SCG Chem) - Additives for polymer products	Jul 21, 2016	8 years from the date of first revenue received
Scientific Testing Services (CPP)	Jun 9, 2017	Jan, 2027
R&D (TPE) New technology for polymer product (SMX)	Apr 20, 2016	8 years from the date of first revenue received
R&D (TPE-PP pilot plant)	Apr 21, 2016	Nov, 2027
R&D (Cirplas) The demonstration unit for Pyrolysis Naphtha manufacturing from post-consumer plastic	Oct 6, 2020	8 years from the date of first revenue received
Manufacturing of Pyrolysis oil	Sep 24, 2020	8 years from the date of first revenue received

The project which receives 8 years of corporate tax exemption in an amount equivalent to 100% of an investment amount excluding cost of land and working capital for the projects from the first date revenue received but doesn't receive corporate tax reduction. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
R&D (PVC) chemicals products for industry	Oct 11, 2017	8 years from the date of first revenue received
Thermal cracked PE WAX	Apr 3, 2019	8 years from the date of first revenue received

The project which receives 7 years of corporate tax exemption in an amount equivalent to 100% of an investment amount excluding cost of land and working capital for the projects from the first date revenue received but doesn't receive corporate tax reduction. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
Pipe, fitting	Oct 01, 2019	Mar, 2020
	Oct 01, 2019	Feb, 2022

Project	Date Acquired	Expiry of Tax Incentives
	Oct 01, 2019	Jan, 2023
	Oct 01, 2019	Nov, 2023
	Oct 01, 2019	Jul, 2023
	Oct 01, 2019	Jan, 2027
	Oct 01, 2019	7 years from the date of first revenue received

The project which receives corporate tax exemption for 6 years from the first date revenue received but doesn't receive corporate tax reduction. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
Enterprise software and digital content	Sep 13, 2016	Nov, 2022

The project which receives 8 years of corporate tax exemption in an amount equivalent to 100% of an investment amount excluding cost of land and working capital for the projects with measures to reduce environmental impact. So that the project receives the corporate tax exemption on its revenue from existing operation. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
Jetty and terminal	Oct 10, 2012	Oct, 2020

The project which receives corporate tax exemption on net profit not exceeding 50% of an investment amount excluding cost of land and working capital of modification project for 3 years from the first date of revenue generated. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
LLDPE, MDPE	May 5, 2017	May, 2020

The project which receives 3 years of corporate tax exemption in an amount equivalent to 50% of an investment amount excluding cost of land and working capital for the projects with measures to reduce environmental impact. So that the project receives the corporate tax exemption on its revenue from existing operation. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
Jetty and terminal	Jun 21, 2017	Jun, 2020

The project which receives 6 years of corporate tax exemption in an amount equivalent to 100% of an investment amount excluding cost of land and working capital for the projects from the first date revenue received, and 50% reduction of corporate income tax for 5 years after the exemption period. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
Raw Water Plant	Jan 15, 2018	Aug, 2029

### ○ Packaging Business

The Business acquired BOI tax incentives such as machinery import duty exemption, corporate tax exemption for 8 years in an amount equivalent to 100% of an investment amount excluding cost of land and working capital for the projects from the date of first revenue received, and 50% reduction of corporate income tax for 5 years after the exemption period. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
Corrugated sheet and container	Jul 24, 2007	Jan, 2022
Plastic or plastic coated products	Mar 27, 2009	Sep, 2022
	Mar 27, 2013	Jul, 2026
	Apr 17, 2014	Jul, 2027
	Mar 19, 2015	Aug, 2028
	Mar 19, 2015	Jul, 2030

The project which receives corporate tax exemption for 8 years from the first date revenue received but doesn't receive corporate tax reduction. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
Eucalyptus forest	Feb 6, 2013	Jun, 2021
Production of electricity from waste or refuse-derived fuel	Jul 26, 2017	Oct, 2026
Energy service company (ESCO)	Oct 3, 2018	Oct, 2030

The project which receives 8 years of corporate tax exemption in an amount equivalent to 150% of an investment amount excluding cost of land and working capital for the projects from the date of first revenue received. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
Corrugated container	Apr 1, 2013	Sep, 2020
	May 14, 2013	Jun, 2025

The project which receives 8 years of corporate tax exemption in an amount equivalent to 100% of an investment amount excluding cost of land and working capital for the projects. So that the project receives the corporate tax exemption on its revenue from existing operation. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
Printing	Oct 12, 2015	Oct, 2023
Co-generation plant	Dec 11, 2014	8 years from the date of first revenue received
Solar rooftop	Oct 26, 2018	Jun, 2027
	Oct 26, 2018	Mar, 2028

Project	Date Acquired	Expiry of Tax Incentives
	Nov 22, 2019	Jun, 2028
	Nov 22, 2019	Dec, 2028
	Nov 22, 2019	8 years from the date of first revenue received
	Nov 22, 2019	8 years from the date of first revenue received
Solar farm and floating solar farm	Feb 8, 2019	8 years from the date of first revenue received

The project which receives 8 years of corporate tax exemption in an amount equivalent to 100% of an investment amount excluding cost of land and working capital for the projects with measures to reduce environmental impact. So that the project receives the corporate tax exemption on its revenue from existing operation. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
Kraft paper	Feb 14, 2013	Dec, 2020
	May 20, 2013	May, 2021
	Feb 20, 2014	Feb, 2022

The project which receives 6 years of corporate tax exemption in an amount equivalent to 100% of an investment amount excluding cost of land and working capital for the projects from the date of first revenue received. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
Hygienic plastic coated paper	Mar 7, 2013	May, 2020

The project which receives 5 years of corporate tax exemption in an amount equivalent to 100% of an investment amount excluding cost of land and working capital for the projects from the date of first revenue received. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
Printing	Aug 26, 2015	Mar, 2021
	Oct 19, 2017	5 years from the date of first revenue received
Specialty pulp or specialty paper (Glassine paper)	Oct 18, 2017	Apr, 2022

The project which receives 3 years of corporate tax exemption in an amount equivalent to 100% of an investment amount excluding cost of land and working capital for the projects from the date of first revenue received. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
Kraft paper	Apr 19, 2018	3 years from the date of first revenue received
	Jun 12, 2018	3 years from the date of first revenue received
Industrial bag	Jan 5, 2018	3 years from the date of first revenue received
Corrugated sheet	Jul 28, 2016	3 years from the date of first revenue received
	Jul 28, 2016	3 years from the date of first revenue received
Products from hygienic paper	Dec 18, 2017	Feb, 2021
	Feb 2, 2018	Mar, 2021

The project which receives 3 years of corporate tax exemption in an amount equivalent to 50% of an investment amount excluding cost of land and working capital for the projects with measures to reduce environmental impact. So that the project receives the corporate tax exemption on its revenue from existing operation. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
Pulp	Jul 21, 2017	Jul, 2020

The project which receives 3 years of corporate tax exemption in an amount equivalent to 50% of an investment amount excluding cost of land and working capital for the projects with alternative energy utilization. So that the project receives the corporate tax exemption on its revenue from existing operation. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
Corrugated container	Apr 12, 2017	Apr, 2020
	Feb 27, 2018	Feb, 2021
	Sep 3, 2018	Sep, 2021
	Sep 3, 2018	Sep, 2021
	Aug 20, 2019	Aug, 2022

The project which receives 3 years of corporate tax exemption in an amount equivalent to 50% of an investment amount of modification project with measure to increase production efficiency excluding cost of land and working capital. So that the project receives the corporate tax exemption on its revenue from existing operation. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
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Corrugated container	Aug 20, 2019	Aug, 2022
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#### ○ Cement-Building Materials Business

The Business acquired BOI tax incentives such as machinery import duty exemption, corporate tax exemption for 8 years from the date of first revenue received, and 50% reduction of corporate income tax for 5 years after the exemption period. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
Environmental laboratory	Jun 29, 2012	May, 2027
Refuse Derived Fuel (RDF)	Jan 8, 2014	Jul, 2027
Electricity and Steam Production from Refuse-Derived Fuel	Jan 25, 2019	Dec, 2031

The project which receives 8 years of corporate tax exemption in an amount equivalent to 100% of an investment amount excluding cost of land and working capital for the projects from the date of first revenue received, and 50% reduction of corporate income tax for 5 years after the exemption period. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
Production of bathroom or kitchen fittings	Oct 31, 2012	Feb, 2027

The project which receives corporate tax exemption for 8 years from the first date revenue received but doesn't receive corporate tax reduction. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
Refuse Derived Fuel (RDF)	Jun 22, 2015	Sep, 2023
	Apr 5, 2016	Feb, 2024
Co-generation power plant	Dec 2, 2014	Jan, 2024

The project which receives 8 years of corporate tax exemption in an amount equivalent to 100% of an investment amount excluding cost of land and working capital for the projects from the first date revenue received but doesn't receive corporate tax reduction. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
Solar	Feb 21, 2019	8 years from the date of first revenue received
	Apr 29, 2019	Jul, 2028
	Apr 29, 2019	Jun, 2027
	Apr 29, 2019	May, 2027
	Apr 29, 2019	8 years from the date of first revenue received
	Apr 29, 2019	Jun, 2027

Project	Date Acquired	Expiry of Tax Incentives
	Nov 22, 2019	8 years from the date of first revenue received
	Dec 13, 2019	8 years from the date of first revenue received
Solar Floating	Apr 29, 2019	Jun, 2027
	Nov 22, 2019	8 years from the date of first revenue received
	Nov 22, 2019	8 years from the date of first revenue received
	Nov 22, 2019	8 years from the date of first revenue received
Solar Rooftop	Feb 27, 2019	8 years from the date of first revenue received
	Apr 29, 2019	Feb, 2027
	Nov 22, 2019	8 years from the date of first revenue received
	Oct 4, 2018	8 years from the date of first revenue received
Refuse Derived Fuel (RDF)	Aug 18, 2016	May, 2025
Port operations for loading vessels (Wat Ban Dai)	Aug 20, 2013	Dec, 2022

The project which receives 7 years of corporate tax exemption in an amount equivalent to 100% of an investment amount excluding cost of land and working capital for the projects from the first date revenue received but doesn't receive corporate tax reduction. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
Production line of ceramic roof tiles LINE 4	Dec 4, 2012	Nov, 2020
Fiberglass insulation	Nov 9, 2010	Feb, 2020
Production of ceramic tile	Oct 19, 2018	Mar, 2023

The project which receives 3 years of corporate tax exemption in an amount equivalent to 50% of an investment amount of modification project with measure to increase production efficiency excluding cost of land and working capital for the projects from the first date of revenue generated. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
Refractory brick and Monolithic	Mar 21, 2018	Mar, 2021
Production of ceramic (Except Earthen Ware and ceramic tile)	Feb 21, 2018	Feb, 2021

The project which receives 3 years of corporate tax exemption in an amount equivalent to 100% of an investment amount of modification project with measure to increase production efficiency in automation or robots for the projects from the date of revenue after receiving the promotion certificate.

Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
Production of ceramic (Except Earthen Ware and ceramic tile)	Sep 10, 2020	Sep, 2023

#### ○ Corporate & Investments

The Business acquired BOI tax incentives such as machinery import duty exemption, corporate tax exemption for 8 years from the date of first revenue received, and 50% reduction of corporate income tax for 5 years after the exemption period. Details are shown below:

Project	Date Acquired	Expiry of Tax Incentives
Solar roof	Mar 20, 2014	Feb, 2027

## Trademarks

The key trademarks of The Siam Cement Public Company Limited and its subsidiaries comprise of “Elephant Device in Hexagon”, “Elephant Device in Circle”, “Erawan Device in Circle”, “Tiger Device in Circle” and “Elephant Device in Hexagon and SCG” etc. There are approximately 537 trademarks, which are registered at The Department of Intellectual Property, Ministry of Commerce.



## Investment policy in subsidiaries and associate companies

The Siam Cement Public Company Limited is the holding company. Therefore, to ensure clarity in business management and effective resource management to strengthen the organization management according to the long term strategy and corporate governance. SCG has diversified into three core businesses, namely Cement-Building Materials Business, Chemicals Business and Packaging Business. And Investments was established to manage investment in jointly invest with leading companies in other businesses, such as agricultural machinery business, automotive business, automotive accessories and equipments business, and steel business. The returns are in term of dividend and management fee.

Please refer to “ List of subsidiaries, joint ventures, associates and other companies of which their operations are significant” for shareholding structure of direct and indirect ownership of company, subsidiaries, joint ventures, associates and other companies.