

HEXCELPACK™ PATENT MATTER LIST

Group (Num)	Country - Region	Matter Number (Title)	Patent or Pub. No. (Application No.)	Date Filed	Notes
Patents Covering Our HexcelWrap™ and HexcelStretch™ Expandable Slit Sheet Paper Products, Etc.					
(1)	United States	400100-000079 (Extensible Paper and Its Use ...)	Patent No. 10,669,086 (16/018,702)	6-26-2018	Patented
(2)	United States	400100-000080, Continuation of 400100-000079 (Extensible Paper and Its Use ...)	Patent No. 11,383,906 (16/872,813)	5-12-2020	Patented
(3)	United States	400100-000181, Continuation of 400100-000080 (Extensible Paper and Its Use ...)	(17/844,031)	6-19-2022	Pending
(4)	United States	(Extensible Paper and Its Use ...)	(62/524,905)	6-26-2017	Converted
(5)	PCT (foreign)	400100-000146 (Extensible Paper and Its Use ...)	Publication No. WO2019/005739 (PCT/US18/039416)	6-26-2018	National Stage Entered
(6)	Australia	400100-000066 (Extensible Paper and Its Use ...)	2018290739	--	Converted
(7)	Australia	400100-000067 (Extensible Paper and Its Use ...)	2018290739	--	Pending
(8)	Canada	400100-000068 (Extensible Paper and Its Use ...)	3,067,852	--	Pending
(9)	China	400100-000069 (Extensible Paper and Its Use ...)	201880054670.8	--	Pending
(10)	Europe	400100-000071 (Extensible Paper and Its Use ...)	18822784.7	--	Pending
(11)	Hong Kong	400100-000072 (Extensible Paper and Its Use ...)	HK62020009578.9	--	Pending
(12)	Indonesia	400100-000073 (Extensible Paper and Its Use ...)	P00202000612	--	Pending
(13)	India	400100-000074 (Extensible Paper and Its Use ...)	202017001425	--	Pending
(14)	Japan	400100-000075 (Extensible Paper and Its Use ...)	2020-520433	--	Granted
(15)	Japan	400100-000177, Divisional of 400100-000075 (Extensible Paper and Its Use ...)	2021-140755	--	Pending
(16)	Korea	400100-000076 (Extensible Paper and Its Use ...)	10-2020-7002104	--	Patented
(17)	Korea	400100-000077 (Extensible Paper and Its Use ...)	10-2021-7039059	--	Pending
(18)	Mexico	400100-000078 (Extensible Paper and Its Use ...)	Mx/a/2019/015488	--	Pending
(19)	United States	400100-000086 (Expandable Slit Sheet Material that Interlocks ...)	Patent No. 10,226,907 (14/480,319)	9-8-2014	Patented

(20)	United States	400100-000087, Divisional of 400100-000086 (Expandable Slit Sheet Material that Interlocks ...)	Publication No. US2020-0247079 (16/274,028)	2-12-2019	Pending
(21)	United States	(Expandable Slit Sheet Material that Interlocks ...)	(61/874,873)	9-6-2013	Converted
(22)	Europe	400100-000082 (Expandable Slit Sheet Material that Interlocks ...)	Registration No. 3041756 (14843068.9)	--	Granted
(23)	Germany	400100-000081 (Expandable Slit Sheet Material that Interlocks ...)	Registration No. 3041756 (14843068.9)	--	Granted
(24)	France	400100-000084 (Expandable Slit Sheet Material that Interlocks ...)	Registration No. 3041756 (14843068.9)	--	Granted
(25)	Great Britain	400100-000085 (Expandable Slit Sheet Material that Interlocks ...)	Registration No. 3041756 (14843068.9)	--	Granted
(26)	Europe	400100-000083 Divisional of 400100-000082 (Expandable Slit Sheet Material that Interlocks ...)	(14843068.9)	--	Pending
(27)	United States	400100-000113 (Expanded Slit Sheet Cushioning Products with Novel Slit Pattern and Paper Properties)	Patent No. 11,401,090 (16/929,836)	7-15-2020	Patented
(28)	United States	400100-000179, continuation of 400100-000113	(17/844,022)	6-19-2022	Pending
(29)	United States	400100-000114 (Expanded Slit Sheet Cushioning Products with Novel Slit Pattern and Paper Properties)	Publication No. US2021-0031997 (16/929,843)	7-15-2020	Pending
(30)	United States	400100-000150 (Slit Sheet Material in Combination with Extensible Paper and ...)	(62/874,163)	7-15-2019	Converted
(31)	PCT (foreign)	400100-000111 (Improved Expanded Slit Sheet Cushioning Product with Novel Slit Pattern and Paper Properties)	Publication No. WO2021/011626 (PCT/US20/042093)	7-15-2020	National Stage Entered
(32)	Australia	400100-000100	2020315373	--	Pending
(33)	Canada	400100-000102	3,144,170	--	Pending
(34)	China	400100-000103	2020800645081	--	Pending
(35)	Europe	400100-000104	EP20840459.0	--	Pending
(36)	Hong Kong	400100-000105	--	--	--
(37)	Japan	400100-000108	2022-502290	--	Pending

(38)	Indonesia	400100-000106	P00202201115	--	Pending
(39)	India	400100-000107	202217006450	--	Pending
(40)	Korea	400100-000109	10-2022-7004794	--	Pending
(41)	Mexico	400100-000110	MX/a/2022/000591	--	Pending
(42)	Brazil	400100-000101	BR112022000769-8	--	Pending
(43)	United States	400100-000115, CIP of 400100-000113 (Improved Expanded Slit Sheet Cushioning Product with Novel Reduced-Dimension Slit Patterns)	Publication No. US2021-0309426 (16/501,137)	1-6-2021	Pending
(44)	PCT (foreign)	400100-000112 (Improved Expanded Slit Sheet Cushioning Product with Novel Reduced-Dimension Slit Patterns)	(PCT/US2022/011426)	1-6-2022	National Stage Due 7-6-2023
(45)	United States	400100-000126 (Tooling Method for Expanded Slit Sheet Material)	Patent No. 11,034,120 (16/212,536)	12-06-2018	Patented
(46)	United States	400100-000127, Continuation of 400100-000126 (Tooling Method for Expanded Slit Sheet Material)	Publication No. US2022-072823 (17/346,604)	6-14-2021	Pending
(47)	United States	400100-000128, CIP of 400100-000126 (Improved Expanded Slit Sheet Cushioning Product with Novel Alternating Expansion Patterns)	Publication No. US2022-0106093 (17/347,561)	6-14-2021	Pending
(48)	United States	400100-000166 (Systems and Methods for Making Improved Expandable Slit-Sheet-Material)	(63/268,696)	2-28-2022	Conversion and PCT Due 2-28-2023
(49)	United States	400100-000018 (Expanded Slit-Sheet Paper Cushioning Product)	(29/741,949)	7-16-2020	Design Pending
(50)	United States	400100-000019 (Expanded Slit-Sheet Paper Cushioning Product)	(29/762,982)	7-16-2020	Design Pending
(51)	Australia	400100-000001	Reg. No. 202110147	--	Design Registered
(52)	Australia	400100-000002	Reg. No. 202111679	--	Design Registered
(53)	Australia	400100-000003	Reg. No. 202110151	--	Design Registered
(54)	Australia	400100-000004	Reg. No. 202111830	--	Design Registered
(55)	Australia	400100-000005	Reg. No. 202111831	--	Design Registered

(56)	Australia	400100-000006	Reg. No. 202111832	--	Design Registered
(57)	Australia	400100-000007	Reg. No. 202113790	--	Design Registered
(58)	Australia	400100-000008	Reg. No. 202113791	--	Design Registered
(59)	Australia	400100-000009	Reg. No. 202113792	--	Design Registered
(60)	Australia	400100-000010	Reg. No. 202113793	--	Design Registered
(61)	Australia	400100-000011	Reg. No. 202113794	--	Design Registered
(62)	Australia	400100-000012	Reg. No. 202113795	--	Design Registered
(63)	Europe	400100-000013	Reg. Nos. 008406359-0001-0010	--	Design Registered
(64)	Korea	400100-000014	Reg. No. 30-1139918-0001	--	Design Registered
(65)	Korea	400100-000015	Reg. No. 30-1139918-0002	--	Design Registered
(66)	Korea	400100-000016	Reg. No. 30-1139918-0003	--	Design Registered
(67)	Mexico	400100-000017	MX/a/2020/000161	--	Design Registered
(68)	Mexico	400100-000178, Divisional of 400100-000017	MX/f/2022/001500	--	Design Pending

**Patents Covering Our Hexcel Mini Packing Station™ and Hexcel Mini Pack™
Expandable Slit Sheet Paper Dispensers, Etc.**

(69)	United States	400100-000030 (Method and Apparatus for Dispensing and Expanding Expandable Slit Sheet Material)	Publication No. US2019-0248092 (16/397,503)	4-29-2019	Pending
(70)	United States	(Slit Sheet Bar-Yoke Tensioning Device)	(62/664,698)	4-30-2018	Converted
(71)	PCT (foreign)	400100-000143 (Method and Apparatus for Expanding and Dispensing Slit Sheet Material)	Publication No. WO2019/212980 (PCT/US19/029684)	4-29-2019	National Stage Entered
(72)	Australia	400100-000020	2019262968	--	Pending
(73)	China	400100-000021	201980043174.7	--	Pending
(74)	Germany	400100-000022	Registration No. DE212019000270	--	Registered German Utility Model
(75)	Europe	400100-000023	EP19795837.4	--	Pending
(76)	Hong Kong	400100-000024	62021028842.4	--	Pending
(77)	Indonesia	400100-000025	P00202008981	--	Pending

(78)	India	400100-000026	202017047236	--	Pending
(79)	Japan	400100-000027	2021-509726	--	Pending
(80)	Korea	400100-000028	10-2020-7033390	--	Pending
(81)	Mexico	400100-000029	MX/a/2020/011431	--	Pending
(82)	United States	400100-000129 (Slit Paper Expansion Method and Apparatus)	Patent No. 11,220,395 (15/820,514)	11-22-2017	Patented
(83)	United States	400100-000130, Divisional of 400100-000129 (Slit Paper Expansion Method and Apparatus)	Publication No. US2022-0127067 (17/572,174)	1-10-2022	Pending
(84)	United States	(Slit Paper Method of Expansion, Shipment and Expander Method of Improvement)	(62/425,200)	11-22-2016	Converted
(85)	United States	(Dispenser for Slit Sheet Material)	(62/571,382)	10-12-2017	Converted
(86)	United States	400100-000131 (Slit Paper Method of Expansion, Shipment, and Expansion Devices)	Publication No. US2018-0222665 (15/428,144)	2-8-2017	Pending
(87)	United States	(Manual Expander for Slit Sheet Expanded Material)	(62/292,727)	2-8-2016	Converted
(88)	United States	(Slit Paper Method of Expansion, Shipment and Expander Method of Improvement)	(62/425,200)	11-22-2016	Converted
(89)	United States	(Slit Paper Method of Expansion, Shipment and Expander Method of Improvement)	(62/435,037)	12-15-2016	Converted
(90)	United States	400100-000052 (Slit Sheet Tensioning Device)	Patent No. 11,479,009 (16/290,016)	3-1-2019	Patented
(91)	United States	400100-000189 Continuation of 400100-000052 (Slit Sheet Tensioning Device)	(17/959,928)	10-4-2022	Pending
(92)	United States	(Slit Sheet Tensioning Device)	(62/641,352)	3-11-2018	Converted
(93)	PCT (foreign)	400100-000145 (Slit Sheet Tensioning Device)	Publication No. WO2020/068153 (PCT/IB2019/001458)	3-1-2019	National Stage Entered
(94)	Australia	400100-000044	2019349561	--	Pending
(95)	Canada	400100-000045	3,093,630	--	Pending
(96)	Germany	400100-000046	21-2019-000-213.7	--	Registered German Utility Model
(97)	Europe	400100-000047	EP19919546.2	--	Pending
(98)	India	400100-000049	202017043805	--	Pending

(99)	Hong Kong	400100-000048	HK62021028818.4	--	Pending
(100)	Korea	400100-000050	10-2020-7028957	--	Pending
(101)	Mexico	400100-000051	MX/a/2020/009350	--	Pending
(102)	United States	400100-000064 (Shipping and Dispensing Box for Slit Sheet Material)	Patent No. 10,766,690 (16/159,186)	10-12-2018	Patented
(103)	United States	400100-000065, Continuation of 400100-000064 (Shipping and Dispensing Box for Slit Sheet Material)	Publication No. US2020-0324963 (16/740,666)	1-13-2020	Pending
(104)	United States	(Shipping and Dispensing Box for Slit Sheet Material)	(62/633,630)	2-22-2018	Converted
(105)	United States	(Shipping and Dispensing Box for Slit Sheet Material)	(62/571,382)	10-12-2017	Converted
(106)	PCT (foreign)	400100-000063 (Shipping and Dispensing Box for Slit Sheet Material)	Publication No. WO2019/075371 (PCT/US18/055674)	10-12-2018	National Stage Entered
(107)	Canada	400100-000054 (Shipping and Dispensing Box for Slit Sheet Material)	3,076,699	--	Pending
(108)	India	400100-000059 (Shipping and Dispensing Box for Slit Sheet Material)	202017015401	--	Pending
(109)	Indonesia	400100-000058 (Shipping and Dispensing Box for Slit Sheet Material)	P00202003337	--	Pending
(110)	Korea	400100-000061 (Shipping and Dispensing Box for Slit Sheet Material)	10-2020-7011513	--	Pending
(111)	Hong Kong	400100-000057 (Shipping and Dispensing Box for Slit Sheet Material)	HK62021024057.3	--	Pending
(112)	Europe	400100-000056 (Shipping and Dispensing Box for Slit Sheet Material)	18865962.7	--	Pending
(113)	Australia	400100-000053 (Shipping and Dispensing Box for Slit Sheet Material)	2018346949	--	Pending
(114)	Mexico	400100-000062 (Shipping and Dispensing Box for Slit Sheet Material)	MX/a/2020/003282	--	Pending
(115)	China	400100-000055 (Shipping and Dispensing Box for Slit Sheet Material)	201880066105.03	--	Pending
(116)	Japan	400100-000060 (Shipping and Dispensing Box for Slit Sheet Material)	2020-517787	--	Pending

(117)	United States	400100-000138 (Further Methods and Apparatuses for Dispensing ...)	Publication No. US2021-0315426 (17/239,682)	4-25-2021	Pending
(118)	United States	400100-000162 (Further Methods and Apparatuses for Dispensing ...)	(63/015,610)	4-26-2020	Converted
(119)	PCT (foreign)	400100-000137 (Further Methods and Apparatuses for Dispensing ...)	Publication No. WO2021/222048 (PCT/US21/029031)	4-26-2021	National Stage Entered
(120)	EP	400100-000192 (Further Methods and Apparatuses for Dispensing ...)	--	--	Pending

(121)	United States	400100-000140 (Systems and Methods for Incorporating Labels and the Like with Expandable Slit Sheet Material Wrap)	Publication No. US2022-0119181 (17/506,093)	10-20-2021	Response to restriction filed.
(122)	United States	400100-000165 (Slit Sheet Material Wrap with Adhesion Regions)	(63/094,022)	10-20-2020	Converted
(123)	PCT (foreign)	400100-000139 (Systems and Methods for Incorporating Labels and the Like with Expandable Slit Sheet Material Wrap)	Publication No. WO2022/087080 (PCT/US21/055770)	10-20-2021	National Stage Due 4-20-2023.

Patents Covering Our WrapPad™ Expandable Sheet Dispensers, Etc.

(124)	United States	400100-000099 (Slit Sheet Material Dispensing Pad)	Publication No. US2021-0114791 (17/071,422)	10-15-2020	Pending
(125)	United States	400100-000149 (Slit Sheet Material Dispensing Pad)	(62/916,093)	10-16-2019	Converted
(126)	PCT (foreign)	400100-000098 (Slit Sheet Material Dispensing Pad)	Publication No. WO2021/076717 (PCT/US20/55719)	10-15-2020	National Stage Entered
(127)	AU	400100-000172 (Slit Sheet Material Dispensing Pad)	2020366367	--	Pending
(128)	CA	400100-000174 (Slit Sheet Material Dispensing Pad)	3154685	--	Pending
(129)	EP	400100-000175 (Slit Sheet Material Dispensing Pad)	EP20840459.0	--	Pending
(130)	MX	400100-000176 (Slit Sheet Material Dispensing Pad)	X/a/2022/004495	--	Pending

**Patents Covering Expansion Systems Employed in, e.g., Our Pallet Wrapping Systems,
Automated Void Fill Systems and/or Envelope Manufacturing Systems, Etc.**

(131)	United States	400100-000097 (Expansion System for Improved Handling and Avoidance of Damage and/or Crushing ...)	Publication No. US2020-0230908 (16/749,875)	1-22-2020	Pending
(132)	United States	(Expansion System for Non-Crushing Slit Sheet)	(62/795,310)	1-22-2019	Converted
(133)	PCT (foreign)	400100-000148 (Expansion System for Improved Handling and Avoidance of Damage and/or Crushing ...)	Publication No. WO2020/154429 (PCT/US20/014649)	1-22-2020	National Stage Entered
(134)	Australia	400100-000088	2020211983	--	Pending
(135)	Canada	400100-000089	3,125,444	--	Pending
(136)	Europe	400100-000090	EP20744692.3	--	Pending
(137)	Hong Kong	400100-000091	HK40060143A	--	Pending
(138)	Indonesia	400100-000092	P00202106424	--	Pending
(139)	India	400100-000093	202117032106	--	Pending
(140)	Japan	400100-000094	2021-540423	--	Pending
(141)	Korea	400100-000095	10-2021-7025475	--	Pending
(142)	Mexico	400100-000096	MX/a/2021/007963	--	Pending

Patents Covering Our Hexcel'Ope™ Expandable Slit-Sheet Paper Cushioned Envelopes, Etc.

(143)	United States	400100-000041 (Protective Products, Such as Envelopes, having ...)	Patent No. 10,981,712 (16/531,017)	8-3-2019	Patented
(144)	United States	400100-000042, Continuation of 400100-000041 (Protective Products, Such as Envelopes, having ...)	Patent No. 11,261,016 (17/218,040)	3-30-2021	Patented
(145)	United States	400100-000043, Continuation of 400100-000042 (Protective Products, Such as Envelopes, having ...)	(17/576,118)	1-14-2022	Pending
(146)	United States	400100-000190, Continuation of 400100-000043 (Protective Products, Such as Envelopes, having ...)	--	--	--

(147)	United States	(Expanded Slit Sheet Material in Combination with Embossed Paper Shipping Envelopes)	(62/806,849)	2-17-2019	Converted
(148)	United States	(Expanded Slit Sheet Material in Combination with Embossed Paper Shipping Envelopes)	(62/798,065)	1-29-2019	Converted
(149)	United States	(Slit Sheet Expanded Material in Combination with Embossed Paper Shipping Envelopes)	(62/714,739)	8-5-2018	Converted
(150)	PCT (foreign)	400100-000144 (Protective Products, Such as Envelopes, having ...)	Publication No. WO2020/033275 (PCT/US19/045027)	8-3-2019	National Stage Entered
(151)	Australia	400100-000031	2019319139	--	Pending
(152)	Canada	400100-000032	3,108,334	--	Pending
(153)	China	400100-000033	02052021-	--	Pending
(154)	Europe	400100-000034	19846357.2	--	Pending
(155)	Hong Kong	400100-000035	--	--	Pending
(156)	Japan	400100-000038	2021-503112	--	Pending
(157)	Indonesia	400100-000036	P00202101565	--	Pending
(158)	India	400100-000037	202117003994	--	Pending
(159)	Korea	400100-000039	10-2021-7003489	--	Pending
(160)	Mexico	400100-000040	MX/a/2021/00831	--	Pending
(161)	United States	400100-000125 (Embossed Paper in Combination with Paper Cushioning for Envelopes)	Patent No. 11,440,305 (16/870,195)	5-8-2020	Patented
(162)	United States	400100-000182 Div. of 400100-000125 (Embossed Paper in Combination with Paper Cushioning for Envelopes)	(17/891,737)	8-19-2022	Pending
(163)	United States	400100-000154 (Embossed Paper in Combination with Paper Cushioning for Envelopes)	(62/845,293)	5-8-2019	Converted
(164)	PCT (foreign)	400100-000153 (Embossed Paper in Combination with Paper Cushioning for Envelopes)	Publication No. WO2020/227649 (PCT/US20/32146)	5-8-2020	National Stage Entered
(165)	Australia	400100-000116	2020267601	--	Pending
(166)	Canada	400100-000117	3,139,692	--	Pending

(167)	China	400100-000118	--	--	Pending
(168)	Europe	400100-000119	EP20802828.2	--	Pending
(169)	Hong Kong	400100-000167	--	--	Pending
(170)	Japan	400100-000122	2021-566005	--	Pending
(171)	Indonesia	400100-000120	P00202111180	--	Pending
(172)	India	400100-000121	2021-17056458	--	Pending
(173)	Korea	400100-000123	10-2021-7040324	--	Pending
(174)	Mexico	400100-000124	MX/a/2021/013538	--	Pending

(175)	United States	400100-000136 (Expanded Slit Sheet Envelope Crush Pull System)	Publication No. US2021-0252821 (17/187,768)	2-27-2020	Pending
(176)	United States	400100-000159 (Expanded Slit Sheet Envelope Crush Pull System)	(62/982,662)	2-27-2020	Converted
(177)	PCT (foreign)	400100-000135 (Expanded Slit Sheet Envelope Crush Pull System)	Publication No. WO2021/174150 (PCT/US21/020131)	2-27-2021	National Stage Entered
(178)	Europe	400100-000187 (Expanded Slit Sheet Envelope Crush Pull System)	EP21761628.3	2-27-2022	Pending
(179)	United States	400100-000184 (Improved Paper Cushioned Shipping Envelopes and Methods of Making the Same)	(63/396,918)	8-10-2022	Conversion and Foreign Filing Due 8-10-2023

Patents Covering Our Hexcel Fil in a Box™ and HexaFil™ Automatic and Manual Void Fill Systems, Etc.

(180)	United States	400100-000133 (Expanded Slit Sheet Void Fill Dispensing Systems)	Publication No. US2021-0245908 (17/175,148)	2-12-2021	Pending
(181)	United States	400100-000156 (Expanded Slit Sheet Void Fill Dispensing Systems)	(62/975,678)	2-12-2020	Converted
(182)	United States	400100-000157 (Automated Void Fill Dispensing System)	(62/976,930)	2-14-2020	Converted
(183)	United States	400100-000158 (Automated and Manual Void Fill Dispensing System)	(62/980,122)	2-21-2020	Converted
(184)	United States	400100-000160 (Augmented Slit Sheet Void Fill Opening ...)	(63/983,601)	2-29-2020	Converted

(185)	United States	400100-000161 (Automated Slit Sheet Void Fill System)	(63/000,390)	3-26-2020	Converted
(186)	United States	400100-000163 (Void Fill Dispensing Systems and Methods ...)	(63/020,016)	5-5-2020	Converted
(187)	United States	400100-000164 (Void Fill Dispensing Systems and Methods Employing Coreless Expandable Slit Sheet Rolls)	(63/064,393)	8-11-2020	Converted
(188)	PCT (foreign)	400100-000132 (Expanded Slit Sheet Void Fill Dispensing Systems)	Publication No. WO2021163453 (PCT/US21/017820)	2-12-2021	National Stage Entered
(189)	Europe	400100-000183 (Expanded Slit Sheet Void Fill Dispensing Systems)	EP21754159.8	9-7-2022	Pending

Patents Covering Our HexcelStretch™ and PowerStretch™ Pallet Wrapping Systems, Etc.

(190)	United States	400100-000171 (Systems and Methods for Wrapping Pallets and the Like ...)	(17/802,012)	8-24-2022	Pending
(191)	United States	400100-000141 (Systems and Methods for Wrapping Pallets and the Like ...)	(63/166,233)	3-25-2021	Converted
(192)	United States	400100-000142 (Systems and Methods for Wrapping Pallets and the Like ...)	(63/190,025)	5-18-2021	Converted
(193)	PCT	400100-000170 (Systems and Methods for Wrapping Pallets and the Like ...)	(PCT/US22/22059)	3-25-2022	National Stage Due 9-25-2023