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No.	U.S. Pat. No.	Claims	Accused Product(s)	No.	U.S. Pat. No.	Claims	Accused Product(s)
52	7,084,757	1, 5	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets	124	7,719,417	1	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets
53	9,032,438	2	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets	125	7,562,231	1-3	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets
54	8,180,198	1, 6	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets	126	8,526,791	1, 8, 15	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets
55	15/898,351 (allowed)	1, 5	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets	127	9,942,483	1, 8	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets
56	8,059,177	1-2	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets	128	9,704,389	1, 5	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets; SmartThings
57	9,774,776	1, 3, 4, 5, 7-10	Galaxy A, S, Z, Note series phones; Galaxy Tab A,	129	10,511,757	1-8	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X,

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No.	U.S. Pat. No.	Claims	Accused Product(s)	No.	U.S. Pat. No.	Claims	Accused Product(s)
			Tab X, Book series tablets				Book series tablets
58	9,721,462	1, 9, 11	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets; SmartThings	130	7,084,880	1, 14, 16	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets
59	8,111,263	1, 12	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets	131	7,421,188	1-9	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets
60	10,783,228	1-6, 12-17	Galaxy A, S, Z, Note series phones; Galaxy Watch, Active, Fit smartwatches	132	10,462,278	1-17	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets
61	10,812,646	1-8, 13-20	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets	133	7,639,706	1, 2, 4	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets
62	10,834,459	1-13	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets	134	10,915,220	1, 7	Galaxy Watch, Active, Fit smartwatches
63	10,757,344	1, 3	Galaxy A, S, Z, Note series phones; Galaxy Tab A,	135	8,599,244	1, 8, 14	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X,

No.	U.S. Pat. No.	Claims	Accused Product(s)	No.	U.S. Pat. No.	Claims	Accused Product(s)
			Tab X, Book series tablets				Book series tablets
64	9,503,648	1-8	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets	136	8,724,962	1, 2	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets
65	7,391,964	1, 9, 11, 19	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets	137	8,139,927	1-4	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets
66	10,728,362	1, 7	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets	138	8,566,890	1	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets
67	9,154,545	1, 4, 7	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets	139	9,154,003	1, 7, 14, 15	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets; wireless charging pads
68	10,050,474	1, 4, 5, 6, 11	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets; wireless charging pads	140	8,099,136	1	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets

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No.	U.S. Pat. No.	Claims	Accused Product(s)	No.	U.S. Pat. No.	Claims	Accused Product(s)
69	7,283,671	1, 19	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets	141	9,591,261	1, 5, 10	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets
70	10,726,159	1	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets	142	16/080,313 (allowed)	1	Galaxy Watch, Active, Fit smartwatches
71	10,467,515	1	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets	143	10,635,962	1	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets
72	16/260,879 (allowed)	1	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets				

In addition, we also call your attention to the following expired U.S. patents in Maxell's Smartphone Patent Portfolio, which may be applicable to Samsung's products in view of the method claims included in these patents and/or Samsung's prior knowledge of these patents in view of Samsung's prior purchase agreement:

No.	U.S. Pat. No.	Claims	Accused Product(s)	No.	U.S. Pat. No.	Claims	Accused Product(s)
1	5,396,443	1-5, 7-8, 11, 12, 14-16, 22-24	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X,	15	7,196,986	1, 3, 4	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X,

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			Book series tablets				Book series tablets
2	6,243,340	1	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets	16	7,295,767	1-18	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets, SmartThings
3	6,329,794	1-3, 5-14	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets	17	7,995,897	1-12	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets
4	6,347,068	1-2	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets, laptops	18	6,917,823	1-7	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets
5	6,408,193	1-7	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets,	19	8,098,695	1, 4	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets, laptops
6	6,424,795	1-7	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets,	20	8,339,493	1, 4-6, 10	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X,

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							Book series tablets
7	6,430,498	1-13	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets; Galaxy Watch, Active, Fit smartwatches	21	8,417,088	1-4	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets
8	6,580,999	1-6	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets; Galaxy Watch, Active, Fit smartwatches	22	8,736,729	1,2	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets
9	6,754,440	1-8	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets	23	9,100,604	1-5	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets
10	6,765,616	13-15, 18	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets	24	9,451,229	1-12	9,451,229
11	6,816,491	1-2, 7-9	Galaxy A, S, Z, Note series phones; Galaxy Tab	25	9,544,517	1-11	Galaxy A, S, Z, Note series phones;

			A, Tab X, Book series tablets, laptops				Galaxy Tab A, Tab X, Book series tablets
12	6,856,760	1, 3-4, 6- 7, 9-10, 12-13, 15	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets	26	6,697,563	1, 3, 5, 7, 9, 10	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets
13	6,973,334	1,3-4, 6	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets	27	6,898,078	1-11	Galaxy Book
14	7,068,503	1-29	Galaxy A, S, Z, Note series phones; Galaxy Tab A, Tab X, Book series tablets				

The patents in Maxell's smartphone portfolio are directed to technologies, including imaging/camera components, image processor, proximity sensors, touch screen, power management, wireless communications including Bluetooth, WiFi, NFC, and cellular communications, biometric authentication, positioning, user interfaces, content management incorporated in Samsung's smartphones, tablets, smartwatches and related hardware and software sold in the United States. Copies of each of these patents may be found by visiting the United States Patent and Trademark office website, www.uspto.gov.

As with the TV patents, we encourage you to examine these patents again, considering of course the significant advancements in Samsung smartphones since 2013. We are confident you will agree a nonexclusive license is needed under each of the patents identified. In particular, at least the identified claims in the above chart are believed to be practiced by the identified Samsung products. Further, many of these patents were the subject of various litigations, including, for example, *Maxell, Ltd. v. Huawei Devices USA, Inc., et al.*, C.A. Nos. 5:16-CV-00178-RWS (E.D. Tex.) and 5:18-CV-00033-RWS (E.D. Tex.); *Maxell, Ltd. v. ZTE Corp., et al.*, C.A. Nos. 5:16-CV-00179-RWS (E.D. Tex.) and 5:18-CV-00034 (E.D. Tex.); *Maxell, Ltd. v. ASUSTeK*

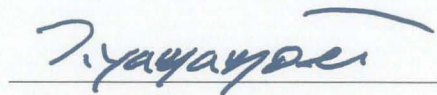
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Computer, Inc., C.A. No. 3:18-CV-01788 (N.D. Cal.); *Maxell, Ltd. v. Blu Products, Inc.*, C.A. No. 1:18-CV-21231 (S.D. Fla.); *Maxell, Ltd. v. Blackberry Corp., et al.*, C.A. No. 1:17-CV-01446 (D. Del.); *Maxell, Ltd. v. Olympus Corp., et al.*, C.A. No. 1:18-CV-00310-JFB-SRF (D. Del.); *Maxell, Ltd. v. Apple Inc.*, C.A. No. 5:19-CV-00036-RWS (E.D. Tex.); *Maxell, Ltd. v. Apple Inc.*, C.A. No. 6:21-CV-00158-ADA (W.D. Tex.); *In the Matter of Certain Mobile Electronic Devices And Laptop Computers*, Inv. No. 337-TA-1215; and numerous foreign proceedings in Germany and Japan. Each of these litigations has now concluded with very favorable results for Maxell. For example, the ZTE litigation resulted in a \$43.3 million verdict on seven patents in its portfolio, including U.S. Patent Nos. 6,748,317 ("317 Patent"); 8,339,493 ("493 Patent"); 8,736,729 ("729 Patent"); 6,408,193 ("193 Patent"); 6,329,794 ("794 Patent"); 6,816,491 ("491 Patent"); and 8,098,695 ("695 Patent") and the Apple litigation resulted in a settlement shortly after jury selection. In addition to the litigation successes, we also note that numerous patents in Maxell's Smartphone portfolio have been subject to IPR petitions that were not instituted by the PTAB. We encourage you to review these matters. Because Samsung's infringing products operate in substantially the same manner as the products accused of infringement in these case, additional detail regarding Samsung's infringing activities can be gained from reviewing the complaints and allegations in these matters.

Maxell is focused on addressing these issues without the need for costly and protracted litigation, and it would welcome the opportunity to have constructive discussions with Samsung to determine whether a mutually acceptable patent license agreement can be reached. Maxell is prepared to commence discussions with you or your representative at your earliest convenience, at which time Maxell can set forth its basic terms for renewal for your consideration. Maxell looks forward to your reply and the opportunity to discuss these matters with you or your representative.

Sincerely yours,



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