

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4752194

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
Name		Execution Date
EPCOS AG		02/01/2017
RECEIVING PARTY DATA		
Name:	SNAPTRACK, INC.	
Street Address:	5775 MOREHOUSE DRIVE	
City:	SAN DIEGO	
State/Country:	CALIFORNIA	
Postal Code:	92121	
PROPERTY NUMBERS Total: 19		
Property Type	Number	
Application Number:	15574266	
Application Number:	15574325	
Application Number:	15572130	
Application Number:	15572702	
Application Number:	15571784	
PCT Number:	US1763441	
PCT Number:	US1763452	
PCT Number:	US1761738	
PCT Number:	US1756891	
PCT Number:	US1758050	
PCT Number:	US1759281	
PCT Number:	US1753054	
PCT Number:	US1739257	
PCT Number:	US1737261	
PCT Number:	US1725521	
PCT Number:	IB1751229	
PCT Number:	EP1667654	
PCT Number:	EP1660738	
PCT Number:	EP1663748	

CORRESPONDENCE DATA**Fax Number:**

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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NAME OF SUBMITTER:	RANDOL W. READ
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SIGNATURE:	/Randol W. Read/
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DATE SIGNED:	12/27/2017
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Total Attachments: 123

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MASTER CONFIRMATORY PATENT ASSIGNMENT

This MASTER CONFIRMATORY PATENT ASSIGNMENT (this “**Assignment**”) is made and entered into as of February 1st 2017 (the “**Effective Date**”) by and between EPCOS AG, a company incorporated under the laws of Germany with its place of business at St.-Martin-Str. 53, 81669 Munich, Germany (“**Assignor**”), and SnapTrack, Inc., a California corporation with its place of business at 5775 Morehouse Drive, San Diego, CA 92121 (“**Assignee**”).

WHEREAS, pursuant to that certain Patent Transfer Agreement (the “**Transfer Agreement**”), with an Effective Date of February 1st, 2017, among Assignee, Assignor, TDK Corporation and EPCOS, Inc., Assignor has sold, assigned, transferred, conveyed, and delivered to Assignee all of Assignor’s right, title, and interest in and to the Assigned Patents (defined below) with effect from the date of the Transfer Agreement; and

WHEREAS, pursuant to the Transfer Agreement, Assignor and Assignee have agreed to enter into this Assignment for purposes of recording the sale, assignment, transfer, conveyance and delivery to Assignee by Assignor of the Assigned Patents.

NOW, THEREFORE, in consideration of the promises and covenants set forth in the Transfer Agreement and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto confirm that in the Transfer Agreement they have agreed and do hereby agree as follows:

1. **Conveyance.** Assignor hereby irrevocably sells, assigns, transfers, conveys, and delivers to Assignee all of Assignor’s right, title and interest in, to and under the issued patents and patent applications listed on Schedule A, (collectively, the “**Listed Patents**”), including, without limitation, (i) all withdrawn, lapsed, abandoned and expired issued patents and patent applications that are either Siblings of any Listed Patent, or foreign counterparts of any Listed Patent or Additional Transferred Patent (as defined below)), all foreign or domestic counterparts of the patents described above (excluding foreign counterparts of any patent that is jointly owned by Assignee and a third party if such foreign counterparts are not listed in Schedule A), and all divisions, divisionals, continuations, continuations-in-part, revisions, reexaminations, revivals, utility models, registrations, renewals, extensions, reissues, non-provisional, provisional and priority applications, and other siblings, if any, recognized in any country or jurisdiction (collectively, “**Siblings**”) of any of the foregoing patents and patent applications issued by, or applied for with, any patent office or registrars of patents in any country or jurisdiction (excluding Siblings of the patents that are jointly owned by Assignee and a third party) (such foreign counterparts and Siblings of the foregoing patents collectively, the “**Additional Transferred Patents**”), (ii) all inventions and improvements claimed or described in any of the foregoing patents, including all rights of priority under international conventions, treaties, or agreements, (iii) all rights to collect royalties and proceeds in connection with any of the foregoing ((i) through (iii) above and the Listed Patents and Additional Transferred Patents, collectively, constituting the “**Assigned Patents**”), (iv) all rights to prosecute and maintain any of the foregoing, and (v) all rights to sue for, to assert claims against, seek remedies and retain

damages (including lost profits and attorney's fees and expenses) with respect to any past, present and future infringement of any or all of such Assigned Patents, to retain any and all amounts therefrom, and all rights of priority and protection of interests in such Assigned Patents.

2. Recordation. Assignor hereby requests the United States Patent and Trademark Office Commissioner for Patents, the European Patent Office, the German Patent Office, the French Patent Office and all other applicable foreign and international patent offices or registrars of patents, to record Assignee as the assignee and owner of the Assigned Patents. Assignor also hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents or certificates of invention which may be granted upon any of the Assigned Patents in the name of Assignee, as the assignee to the entire interest therein.

3. Information and Assistance.

3.1 Upon Assignee's reasonable request and without further consideration, but at Assignee's cost, each Assignor shall execute, acknowledge and deliver all such other instruments and documents on the part of such Assignor and shall take all such other actions of such Assignor reasonably necessary or required by law to (1) consummate and make fully effective the transactions contemplated by this Assignment; (2) put Assignee in possession of, and vest in Assignee, good, valid and unencumbered (other than permitted encumbrances applicable to the Assigned Patents) title in and to the Assigned Patents; and (3) assist Assignee in obtaining, defending and enforcing the Assigned Patents and with any other proceedings that may be brought by or against Assignee relating to the rights assigned by this Assignment.

3.2 If Assignee is unable for any reason to secure Assignor's signature to any document required to file, prosecute, register or memorialize the assignment of any rights under any Assigned Patents as provided under this Assignment, Assignor hereby irrevocably designates and appoints Assignee and Assignee's duly authorized officers and agents as Assignor's agents and attorneys-in-fact to act for and on Assignor's behalf and instead of Assignor to take all lawfully permitted acts to further the filing, prosecution, registration, memorialization of assignment, issuance and enforcement of rights under such Assigned Patents, all with the same legal force and effect as if executed by Assignor. The foregoing is deemed a power coupled with an interest and is irrevocable.

4. Successors and Assigns. This Assignment and all the provisions hereof shall be binding upon and shall inure to the benefit of the parties hereto and their respective successors and permitted assigns and nothing herein express or implied shall give or be construed to give to any person, other than the parties hereto and such permitted assigns, any legal or equitable rights hereunder.

5. Counterparts. With respect to all jurisdictions other than France or any other jurisdiction in which execution by counterparts may not be permitted, this Assignment may be executed in two or more consecutive counterparts (including without limitation by facsimile), each of which shall be an original, with the same effect as if the signatures thereto and hereto were upon the

same instrument, and shall become effective when one or more counterparts have been signed by each party and delivered (by facsimile or otherwise) to the other party.

6. Section Headings. The section headings contained in this Assignment are for reference purposes only, and shall not in any way affect the meaning or interpretation of this Assignment.

7. No Amendment. No waiver, amendment, or modification of this Assignment shall be effective against the Assignee, unless in writing executed by a duly authorized representative of the Assignee.

8. Governing Law. This Assignment and all claims or causes of action (whether in contract, tort or otherwise) that may be based upon, arise out of or relate to this Assignment or the negotiation, execution or performance of this Assignment shall be governed by and construed in accordance with the laws of the United States and the State of Delaware, without regard to applicable principles of conflicts of law that would result in the application of the laws of a different state or country; provided that, to the extent the applicable law of a different jurisdiction provides for specific legal requirements for the transfer, assignment or delivery of Assigned Patents as contemplated by this Assignment, then such applicable law shall apply to such transfers, assignments and deliveries.

[Signature Page Follows]

IN WITNESS WHEREOF, the undersigned have caused this Master Confirmatory Patent Assignment to be executed in two (2) original copies, effective as of the Effective Date. One original copy of this Master Confirmatory Patent Assignment shall be transmitted to each of the undersigned.

ASSIGNOR:

EPCOS AG

By:

Name: Dr. Horst Rathmann / Peter Knoll

Title: Corporate Executive Vice President / Corporate Executive Vice President

By:

Name:

Title:

[Master Confirmatory Patent Assignment – EPCOS AG (Sole)]

Acknowledged and Accepted:

ASSIGNEE:

SNAPTRACK, INC.

By: Alan Paelin
Name: Alan Paelin
Title: President

[Master Confirmatory Patent Assignment – EPCOS AG (Sole)]

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Casenameber	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	CA	1995P1270	2173055	29-Mar-1996			SURFACE WAVE DUAL CONVERTER FOR A DUAL FILTER, IN PARTICULAR FOR TELEVISION SETS	Abandoned
B. EPCOS AG	DE	1995P1270	59609896	15-Mar-1996		EP735672	Dual surface acoustic wave transducer for dual filter, in particular for television receivers	Expired
B. EPCOS AG	DE	1995P1270	19512251.8	31-Mar-1995		19512251	Double filter surface wave double converter has single two output converter with filter design containing interdigital adaptive ranges to select respective input signal	Abandoned
B. EPCOS AG	EP	1995P1270	96104184.5	15-Mar-1996		EP735672	Dual surface acoustic wave transducer for dual filter, in particular for television receivers	Expired
B. EPCOS AG	FR	1995P1270	96104184.5	15-Mar-1996		EP735672	Dual surface acoustic wave transducer for dual filter, in particular for television receivers	Expired
B. EPCOS AG	GB	1995P1270	96104184.5	15-Mar-1996		EP735672	Dual surface acoustic wave transducer for dual filter, in particular for television receivers	Expired
B. EPCOS AG	JP	1995P1270	08-103389	29-Mar-1996		3806178	SURFACE ACOUSTIC WAVE TRANSDUCER	Abandoned
B. EPCOS AG	KR	1995P1270	10-1996-0008694	28-Mar-1996		10-0425398	The surface wave dual conversion for the double filter	Abandoned
B. EPCOS AG	US	1995P1270	08/627,773	1-Apr-1996		5,867,075	SURFACE WAVE DUAL CONVERTER FOR A DUAL FILTER IN PARTICULAR FOR TELEVISION SETS	Abandoned
B. EPCOS AG	CA	1995P2257	2241037	16-Dec-1996			METHOD FOR THE PRODUCTION OF CONTACTS OF ELECTRICAL COMPONENTS	Abandoned
B. EPCOS AG	CN	1995P2257	96199161.5	16-Dec-1996		ZL96199161.5	PROCESS FOR PRODUCING CONTACTS ON ELECTRICAL COMPONENTS SUITABLE FOR A FLIP-CHIP ASSEMBLY	Expired
B. EPCOS AG	DE	1995P2257	19548046.5	21-Dec-1995		19548046	METHOD FOR THE PRODUCTION OF FLIP- CHIP MOUNTING-READY CONTACTS OF ELECTRICAL COMPONENTS	Expired
B. EPCOS AG	EP	1995P2257	96946147.4	16-Dec-1996			PROCESS FOR PRODUCING CONTACTS ON ELECTRICAL COMPONENTS SUITABLE FOR A FLIP-CHIP ASSEMBLY	Abandoned
B. EPCOS AG	JP	1995P2257	09-523212	16-Dec-1996		4413278	PROCESS FOR PRODUCING CONTACTS ON ELECTRICAL COMPONENTS SUITABLE FOR A FLIP-CHIP ASSEMBLY	Expired
B. EPCOS AG	KR	1995P2257	10-1998-0704406	16-Dec-1996		10-0445569	PROCESS FOR PRODUCING CONTACTS ON ELECTRICAL COMPONENTS SUITABLE FOR A FLIP-CHIP ASSEMBLY	Expired

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	US	1995P2257	09/103,163	22-Jun-1998		6,057,222	PROCESS FOR PRODUCING CONTACTS ON ELECTRICAL COMPONENTS SUITABLE FOR A FLIP-CHIP ASSEMBLY	Granted
B. EPCOS AG	WO	1995P2257	PCT/DE96/02412	16-Dec-1996			PROCESS FOR PRODUCING CONTACTS ON ELECTRICAL COMPONENTS SUITABLE FOR A FLIP-CHIP ASSEMBLY	National
B. EPCOS AG	CA	1995P2259	2241147	16-Dec-1996			ELECTRONIC COMPONENT, IN PARTICULAR A SAW COMPONENT OPERATING WITH SURFACE ACOUSTIC WAVES AND A METHOD FOR ITS PRODUCTION	Abandoned
B. EPCOS AG	CH	1995P2259	96946195.3	16-Dec-1996		EP0868779	ELECTRONIC COMPONENT, ESPECIALLY ONE OPERATING WITH ACOUSTIC SURFACE WAVES (SW COMPONENT)	Abandoned
B. EPCOS AG	CN	1995P2259	96199158.5	16-Dec-1996		ZL96199158.5	Electronic component, esp. OFW device operating with acoustic surface waves, and mfg. method thereof	Expired
B. EPCOS AG	DE	1995P2259	59605263.4	16-Dec-1996		EP0868779	ELECTRONIC COMPONENT, ESPECIALLY ONE OPERATING WITH ACOUSTIC SURFACE WAVES (SW COMPONENT)	Expired
B. EPCOS AG	DE	1995P2259	19548048.1	21-Dec-1995		19548048	ELECTRONIC COMPONENT, ESPECIALLY ONE OPERATING WITH ACOUSTIC SURFACE WAVES (SW COMPONENT)	Abandoned
B. EPCOS AG	EP	1995P2259	96946195.3	16-Dec-1996		EP0868779	ELECTRONIC COMPONENT, ESPECIALLY ONE OPERATING WITH ACOUSTIC SURFACE WAVES (SW COMPONENT)	Expired
B. EPCOS AG	FR	1995P2259	96946195.3	16-Dec-1996		EP0868779	ELECTRONIC COMPONENT, ESPECIALLY ONE OPERATING WITH ACOUSTIC SURFACE WAVES (SW COMPONENT)	Abandoned
B. EPCOS AG	GB	1995P2259	96946195.3	16-Dec-1996		EP0868779	ELECTRONIC COMPONENT, ESPECIALLY ONE OPERATING WITH ACOUSTIC SURFACE WAVES (SW COMPONENT)	Abandoned
B. EPCOS AG	JP	1995P2259	09-523211	16-Dec-1996		4060360	ELECTRONIC COMPONENT, ESPECIALLY ONE OPERATING WITH ACOUSTIC SURFACE WAVES (SW COMPONENT)	Expired
B. EPCOS AG	KR	1995P2259	10-1998-0704108	16-Dec-1996		10-0456932	ELECTRONIC COMPONENT, ESPECIALLY ONE OPERATING WITH ACOUSTIC SURFACE WAVES (SW COMPONENT)	Expired
B. EPCOS AG	LI=CH	1995P2259	96946195.3	16-Dec-1996		EP0868779	ELECTRONIC COMPONENT, ESPECIALLY ONE OPERATING WITH ACOUSTIC SURFACE WAVES (SW COMPONENT)	Abandoned

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	US	1995P2259	09/103,158	16-Dec-1996		6,310,420	ELECTRONIC COMPONENT, IN PARTICULAR AN SAW COMPONENT OPERATING WITH SURFACE ACOUSTIC WAVES AND A METHOD FOR ITS PRODUCTION	Expired
B. EPCOS AG	WO	1995P2259	PCT/DE96/02411	16-Dec-1996			ELECTRONIC COMPONENT, ESPECIALLY ONE OPERATING WITH ACOUSTIC SURFACE WAVES (SW COMPONENT)	National
B. EPCOS AG	CA	1995P2261	2241083	16-Dec-1996			METHOD FOR PRODUCING AN ELECTRONIC COMPONENT IN PARTICULAR A COMPONENT OPERATING WITH SURFACE ACOUSTIC WAVES-SAW COMPONENT	Abandoned
B. EPCOS AG	CH	1995P2261	96946081.5	16-Dec-1996		EP0868777	ELECTRONIC COMPONENT, ESPECIALLY ONE OPERATING WITH ACOUSTIC SURFACE WAVES (SW COMPONENT)	Abandoned
B. EPCOS AG	CN	1995P2261	96199940.3	16-Dec-1996		ZL96199940.3	ELECTRONIC COMPONENT, ESPECIALLY ONE OPERATING WITH ACOUSTIC SURFACE WAVES (SW COMPONENT)	Expired
B. EPCOS AG	DE	1995P2261	59605452.1	16-Dec-1996		EP0868777	ELECTRONIC COMPONENT, ESPECIALLY ONE OPERATING WITH ACOUSTIC SURFACE WAVES (SW COMPONENT)	Expired
B. EPCOS AG	DE	1995P2261	19548051.1	21-Dec-1995			METHOD OF PRODUCING AN ELECTRONIC COMPONENT, IN PARTICULAR A SURFACE ACOUSTIC WAVE COMPONENT	Abandoned
B. EPCOS AG	EP	1995P2261	96946081.5	16-Dec-1996		EP0868777	ELECTRONIC COMPONENT, ESPECIALLY ONE OPERATING WITH ACOUSTIC SURFACE WAVES (SW COMPONENT)	National
B. EPCOS AG	FR	1995P2261	96946081.5	16-Dec-1996		EP0868777	ELECTRONIC COMPONENT, ESPECIALLY ONE OPERATING WITH ACOUSTIC SURFACE WAVES (SW COMPONENT)	Abandoned
B. EPCOS AG	GB	1995P2261	96946081.5	16-Dec-1996		EP0868777	ELECTRONIC COMPONENT, ESPECIALLY ONE OPERATING WITH ACOUSTIC SURFACE WAVES (SW COMPONENT)	Abandoned
B. EPCOS AG	JP	1995P2261	09-523210	16-Dec-1996			ELECTRONIC COMPONENT, ESPECIALLY ONE OPERATING WITH ACOUSTIC SURFACE WAVES (SW COMPONENT)	Abandoned
B. EPCOS AG	KR	1995P2261	10-1998-0704490	16-Dec-1996		10-0413895	ELECTRONIC COMPONENT, ESPECIALLY ONE OPERATING WITH ACOUSTIC SURFACE WAVES (SW COMPONENT)	Expired

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	LI	1995P2261	96946081.5	16-Dec-1996		EP0868777	ELECTRONIC COMPONENT, ESPECIALLY ONE OPERATING WITH ACOUSTIC SURFACE WAVES (SW COMPONENT)	Abandoned
B. EPCOS AG	US	1995P2261	09/103,160	22-Jun-1998		6,136,175	METHOD OF PRODUCING AN ELECTRONIC COMPONENT, IN PARTICULAR A SURFACE ACOUSTIC WAVE COMPONENT	Expired
B. EPCOS AG	WO	1995P2261	PCT/DE96/02410	16-Dec-1996			ELECTRONIC COMPONENT, ESPECIALLY ONE OPERATING WITH ACOUSTIC SURFACE WAVES (SW COMPONENT)	National
B. EPCOS AG	DE	1995P2265	19548061.9	21-Dec-1995		19548061	SURFACE ACOUSTIC WAVE FILTER	Expired
B. EPCOS AG	CA	1996P1514	2255961	23-May-1997			ELECTRONIC COMPONENT, IN PARTICULAR A COMPONENT USING ACOUSTICAL SURFACE ACOUSTIC WAVES	Abandoned
B. EPCOS AG	CH	1996P1514	97925867.0	23-May-1997		EP0900477	ELECTRONIC COMPONENT, IN PARTICULAR A COMPONENT USING ACOUSTICAL SURFACE ACOUSTIC WAVES	Abandoned
B. EPCOS AG	CN	1996P1514	97194936.0	23-May-1997		ZL97194936.0	ELECTRONIC COMPONENT, IN PARTICULAR A COMPONENT USING ACOUSTICAL SURFACE ACOUSTIC WAVES	Granted
B. EPCOS AG	DE	1996P1514	59704079.6	23-May-1997		EP0900477	ELECTRONIC COMPONENT, IN PARTICULAR A COMPONENT USING ACOUSTICAL SURFACE ACOUSTIC WAVES	Granted
B. EPCOS AG	DE	1996P1514	19621127.1	24-May-1996			ELECTRONIC COMPONENT, IN PARTICULAR A COMPONENT USING ACOUSTICAL SURFACE ACOUSTIC WAVES	Abandoned
B. EPCOS AG	EP	1996P1514	97925867.0	23-May-1997		EP0900477	ELECTRONIC COMPONENT, IN PARTICULAR A COMPONENT USING ACOUSTICAL SURFACE ACOUSTIC WAVES	Granted
B. EPCOS AG	FR	1996P1514	97925867.0	23-May-1997		EP0900477	ELECTRONIC COMPONENT, IN PARTICULAR A COMPONENT USING ACOUSTICAL SURFACE ACOUSTIC WAVES	Granted
B. EPCOS AG	GB	1996P1514	97925867.0	23-May-1997		EP0900477	ELECTRONIC COMPONENT, IN PARTICULAR A COMPONENT USING ACOUSTICAL SURFACE ACOUSTIC WAVES	Granted
B. EPCOS AG	JP	1996P1514	09-541398	23-May-1997			ELECTRONIC COMPONENT, IN PARTICULAR A COMPONENT USING ACOUSTICAL SURFACE ACOUSTIC WAVES	Abandoned

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	KR	1996P1514	10-1998-0709452	23-May-1997		10-0658230	ELECTRONIC COMPONENT, IN PARTICULAR A COMPONENT USING ACOUSTICAL SURFACE ACOUSTIC WAVES	Granted
B. EPCOS AG	LI	1996P1514	97925867.0	23-May-1997		EP0900477	ELECTRONIC COMPONENT, IN PARTICULAR A COMPONENT USING ACOUSTICAL SURFACE ACOUSTIC WAVES	Abandoned
B. EPCOS AG	US	1996P1514	09/198,887	23-May-1997		6,528,924	ELECTRONIC COMPONENT, IN PARTICULAR A COMPONENT USING ACOUSTICAL SURFACE ACOUSTIC WAVES	Granted
B. EPCOS AG	WO	1996P1514	PCT/DE97/01055	23-May-1997			ELECTRONIC COMPONENT, IN PARTICULAR A COMPONENT USING ACOUSTICAL SURFACE ACOUSTIC WAVES	National
B. EPCOS AG	CH	1996P2120	97941844.9	28-Aug-1997		EP0927456	TWIN DUALMODE FILTERS	Abandoned
B. EPCOS AG	DE	1996P2120	19638455.9	19-Sep-1996			TWIN DUALMODE FILTERS	Abandoned
B. EPCOS AG	DE	1996P2120	59704086.9	28-Aug-1997		EP0927456	TWIN DUALMODE FILTERS	Granted
B. EPCOS AG	EP	1996P2120	97941844.9	28-Aug-1997		EP0927456	TWIN DUALMODE FILTERS	Granted
B. EPCOS AG	FR	1996P2120	97941844.9	28-Aug-1997		EP0927456	TWIN DUALMODE FILTERS	Abandoned
B. EPCOS AG	GB	1996P2120	97941844.9	28-Aug-1997		EP0927456	TWIN DUALMODE FILTERS	Abandoned
B. EPCOS AG	JP	1996P2120	10-514151	28-Aug-1997		3419465	TWIN DUALMODE FILTERS	Granted
B. EPCOS AG	LI	1996P2120	97941844.9	28-Aug-1997		EP0927456	TWIN DUALMODE FILTERS	Abandoned
B. EPCOS AG	US	1996P2120	09/254,826	28-Aug-1997		6,163,236	TWIN DUALMODE FILTERS	Granted
B. EPCOS AG	WO	1996P2120	PCT/DE97/01878	28-Aug-1997			TWIN DUALMODE FILTERS	National
B. EPCOS AG	CH	1996P2128	97944715.8	16-Sep-1997		EP0927458	SURFACE WAVE FILTER FOR ASYMMETRICAL/SYMMETRICAL AND SYMMETRICAL/ASYMMETRICAL OPERATING MODE	Abandoned
B. EPCOS AG	DE	1996P2128	19638370.6	19-Sep-1996		19638370	SURFACE WAVE FILTER FOR ASYMMETRICAL/SYMMETRICAL AND SYMMETRICAL/ASYMMETRICAL OPERATING MODE	Expired
B. EPCOS AG	DE	1996P2128	59705904.7	16-Sep-1997		EP0927458	SURFACE WAVE FILTER FOR ASYMMETRICAL/SYMMETRICAL AND SYMMETRICAL/ASYMMETRICAL OPERATING MODE	Granted
B. EPCOS AG	EP	1996P2128	97944715.8	16-Sep-1997		EP0927458	SURFACE WAVE FILTER FOR ASYMMETRICAL/SYMMETRICAL AND SYMMETRICAL/ASYMMETRICAL OPERATING MODE	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
							SYNMETRICAL/ASYMMETRICAL OPERATING MODE	
B. EPCOS AG	FR	1996P2128	97944715.8	16-Sep-1997		EP0927458	SURFACE WAVE FILTER FOR ASYMMETRICAL/SYMMETRICAL AND SYNMETRICAL/ASYMMETRICAL OPERATING MODE	Granted
B. EPCOS AG	GB	1996P2128	97944715.8	16-Sep-1997		EP0927458	SURFACE WAVE FILTER FOR ASYMMETRICAL/SYMMETRICAL AND SYNMETRICAL/ASYMMETRICAL OPERATING MODE	Granted
B. EPCOS AG	JP	1996P2128	10-514171	16-Sep-1997		4205763	SURFACE WAVE FILTER FOR ASYMMETRICAL/SYMMETRICAL AND SYNMETRICAL/ASYMMETRICAL OPERATING MODE	Granted
B. EPCOS AG	LI	1996P2128	97944715.8	16-Sep-1997		EP0927458	SURFACE WAVE FILTER FOR ASYMMETRICAL/SYMMETRICAL AND SYNMETRICAL/ASYMMETRICAL OPERATING MODE	Abandoned
B. EPCOS AG	US	1996P2128	09/242,874	16-Sep-1997		6,081,172	SURFACE WAVE FILTER FOR ASYMMETRICAL/SYMMETRICAL AND SYNMETRICAL/ASYMMETRICAL OPERATING MODE	Granted
B. EPCOS AG	WO	1996P2128	PCT/DE97/02076	16-Sep-1997			SURFACE WAVE FILTER FOR ASYMMETRICAL/SYMMETRICAL AND SYNMETRICAL/ASYMMETRICAL OPERATING MODE	National
B. EPCOS AG	CH	1996P2130	97941841.5	28-Aug-1997		EP0927455	REACTANCE FILTER WITH SURFACE WAVE RESONATORS	Abandoned
B. EPCOS AG	CN	1996P2130	97198069.1	28-Aug-1997			REACTANCE FILTER WITH SURFACE WAVE RESONATORS	abandoned
B. EPCOS AG	DE	1996P2130	19638451.6	19-Sep-1996			REACTANCE FILTER WITH SURFACE WAVE RESONATORS	Abandoned
B. EPCOS AG	DE	1996P2130	59704141.5	28-Aug-1997		EP0927455	REACTANCE FILTER WITH SURFACE WAVE RESONATORS	Granted
B. EPCOS AG	EP	1996P2130	97941841.5	28-Aug-1997		EP0927455	REACTANCE FILTER WITH SURFACE WAVE RESONATORS	Granted
B. EPCOS AG	FR	1996P2130	97941841.5	28-Aug-1997		EP0927455	REACTANCE FILTER WITH SURFACE WAVE RESONATORS	Abandoned

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Count ¹	Family Case number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	GB	1996P2130	97941841.5	28-Aug-1997		EP0927455	REACTANCE FILTER WITH SURFACE WAVE RESONATORS	Abandoned
B. EPCOS AG	JP	1996P2130	10-514149	28-Aug-1997			REACTANCE FILTER WITH SURFACE WAVE RESONATORS	Abandoned
B. EPCOS AG	KR	1996P2130	10-1999-7002310	28-Aug-1997		10-0634637	REACTANCE FILTER WITH SURFACE WAVE RESONATORS	Granted
B. EPCOS AG	LI	1996P2130	97941841.5	28-Aug-1997		EP0927455	REACTANCE FILTER WITH SURFACE WAVE RESONATORS	Abandoned
B. EPCOS AG	US	1996P2130	09/254,944	28-Aug-1997		6,246,302	REACTANCE FILTER WITH SURFACE WAVE RESONATORS	Granted
B. EPCOS AG	WO	1996P2130	PCT/DE97/01875	28-Aug-1997			REACTANCE FILTER WITH SURFACE WAVE RESONATORS	National
B. EPCOS AG	DE	1996P2131	19638452.4	19-Sep-1996			SURFACE WAVE COMPONENT	Abandoned
B. EPCOS AG	DE	1996P2131	59704206.3	8-Sep-1997		EP0927454	SURFACE WAVE COMPONENT	Granted
B. EPCOS AG	EP	1996P2131	97943745.6	8-Sep-1997		EP0927454	SURFACE WAVE COMPONENT	Granted
B. EPCOS AG	WO	1996P2131	PCT/DE97/01994	8-Sep-1997			SURFACE WAVE COMPONENT	National
B. EPCOS AG	DE	1996P2132	29624325.6	19-Sep-1996			Surface acoustic wave filter	abandoned
B. EPCOS AG	DE	1996P2132	29624319.1	19-Sep-1996			Surface acoustic wave filter	abandoned
B. EPCOS AG	DE	1996P2132	29624237.3	19-Sep-1996			Surface acoustic wave filter	abandoned
B. EPCOS AG	DE	1996P2132	19638399.4	19-Sep-1996		19638399	Surface acoustic wave filter	Expired
B. EPCOS AG	DE	1996P2135	59704087.7	28-Aug-1997		DE59704087	Surface wave filter	Granted
B. EPCOS AG	DE	1996P2135	19638400.1	19-Sep-1996			Surface wave filter	Abandoned
B. EPCOS AG	EP	1996P2135	97941845.6	28-Aug-1997		EP0927457	Surface wave filter	Granted
B. EPCOS AG	WO	1996P2135	PCT/DE97/01879	28-Aug-1997			Surface wave filter	National
B. EPCOS AG	DE	1996P2139	19638398.6	19-Sep-1996		19638398	SURFACE WAVE COMPONENT	Expired
B. EPCOS AG	WO	1996P2139	PCT/DE97/02092	17-Sep-1997			SURFACE WAVE COMPONENT	National
B. EPCOS AG	DE	1996P2142	19638395.1	19-Sep-1996		19638395	SURFACE WAVE COMPONENT WITH AT LEAST ONE INTERDIGITAL CONVERTER AND/OR A REFLECTOR	Expired
B. EPCOS AG	WO	1996P2142	PCT/DE97/01880	28-Aug-1997			SURFACE WAVE COMPONENT WITH AT LEAST ONE INTERDIGITAL CONVERTER AND/OR A REFLECTOR	National
B. EPCOS AG	DE	1996P2154	19638627.6	20-Sep-1996		19638627	Surface Acoustic Wave (SAW)	Expired

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	DE	1997P1578	19719467.2	7-May-1997		19719467	SAW DUPLEXER	Granted
B. EPCOS AG	US	1997P1578	09/436,478	8-Nov-1999		6,313,715	SAW DUPLEXER	Granted
B. EPCOS AG	WO	1997P1578	PCT/DE98/01264	6-May-1998			SURFACE WAVE DUPLEXER	National
B. EPCOS AG	CA	1997P1705	2294168	9-Jun-1998			DUAL-MODE SURFACE WAVE FILTER	Abandoned
B. EPCOS AG	CN	1997P1705	98805988.6	9-Jun-1998			DUAL-MODE SURFACE WAVE FILTER	abandoned
B. EPCOS AG	DE	1997P1705	19724259.6	9-Jun-1997		19724259	DUAL-MODE SURFACE WAVE FILTER	Abandoned
B. EPCOS AG	DE	1997P1705	59805522.3	9-Jun-1998		EP0988697	DUAL-MODE SURFACE WAVE FILTER	Granted
B. EPCOS AG	EP	1997P1705	98936129.0	9-Jun-1998		EP0988697	DUAL-MODE SURFACE WAVE FILTER	Granted
B. EPCOS AG	FR	1997P1705	98936129.0	9-Jun-1998		EP0988697	DUAL-MODE SURFACE WAVE FILTER	Abandoned
B. EPCOS AG	GB	1997P1705	98936129.0	9-Jun-1998		EP0988697	DUAL-MODE SURFACE WAVE FILTER	Abandoned
B. EPCOS AG	JP	1997P1705	11-501323	9-Jun-1998		3976796	DUAL-MODE SURFACE WAVE FILTER	Granted
B. EPCOS AG	KR	1997P1705	10-1999-7011615	9-Jun-1998		10-0519245	DUAL-MODE SURFACE WAVE FILTER	Granted
B. EPCOS AG	US	1997P1705	09/456,716	9-Jun-1998		6,353,372	DUAL-MODE SURFACE ACOUSTIC WAVE FILTER WITH SPLIT INPUT/OUTPUT CONVERTERS DETERMINING IMPEDANCE	Granted
B. EPCOS AG	WO	1997P1705	PCT/DE98/01582	9-Jun-1998			DUAL-MODE SURFACE WAVE FILTER	National
B. EPCOS AG	DE	1997P1706	19724258.8	9-Jun-1997		19724258	Dual-mode surface acoustic wave filter	Granted
B. EPCOS AG	EP	1997P1706	98110567.9	9-Jun-1998			Dual-mode surface acoustic wave filter	Abandoned
B. EPCOS AG	CA	1997P1708	2294167	3-Jun-1998			TRANSVERSAL-MODE RESONATOR FILTER	Abandoned
B. EPCOS AG	CH	1997P1708	98934853.7	3-Jun-1998		EP0988696	TRANSVERSAL-MODE RESONATOR FILTER	Abandoned
B. EPCOS AG	CN	1997P1708	98805989.4	3-Jun-1998		ZL98805989.4	TRANSVERSAL-MODE RESONATOR FILTER	Granted
B. EPCOS AG	DE	1997P1708	59805424.3	3-Jun-1998		EP0988696	TRANSVERSAL-MODE RESONATOR FILTER	Granted
B. EPCOS AG	DE	1997P1708	19724255.3	9-Jun-1997		19724255	TRANSVERSAL-MODE RESONATOR FILTER	Abandoned
B. EPCOS AG	EP	1997P1708	98934853.7	3-Jun-1998		EP0988696	TRANSVERSAL-MODE RESONATOR FILTER	Granted
B. EPCOS AG	FR	1997P1708	98934853.7	3-Jun-1998		EP0988696	TRANSVERSAL-MODE RESONATOR FILTER	Abandoned
B. EPCOS AG	GB	1997P1708	98934853.7	3-Jun-1998		EP0988696	TRANSVERSAL-MODE RESONATOR FILTER	Abandoned
B. EPCOS AG	JP	1997P1708	11-501291	3-Jun-1998			TRANSVERSAL-MODE RESONATOR FILTER	Abandoned
B. EPCOS AG	KR	1997P1708	10-1999-7011614	3-Jun-1998			TRANSVERSAL-MODE RESONATOR FILTER	Abandoned
B. EPCOS AG	LI	1997P1708	98934853.7	6-Mar-1998		EP0988696	TRANSVERSAL-MODE RESONATOR FILTER	Abandoned

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Casenumber	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	US	1997P1708	09/456,710	9-Dec-1999		6,342,824	TRANSVERSE-MODE RESONATOR FILTER WITH THE INPUT AND OUTPUT CONVERTERS HAVING DIFFERENT IMPEDANCES	Granted
B. EPCOS AG	WO	1997P1708	PCT/DE98/01505	3-Jun-1998			TRANSVERSAL-MODE RESONATOR FILTER	National
B. EPCOS AG	DE	1997P1783	19726594.4	23-Jun-1997		19726594	Dual-mode surface acoustic wave filter	Granted
B. EPCOS AG	CN	1997P1920	98807097.9	14-Jul-1998		ZL98807097.9	SURFACE ACOUSTIC WAVE FILTER WITH ENHANCED EDGE STEEPNESS	Granted
B. EPCOS AG	DE	1997P1920	19730710.8	17-Jul-1997		19730710	Acoustic surface wave filters with improved slope	Abandoned
B. EPCOS AG	DE	1997P1920	59808182.8	14-Jul-1998		EP0995265	SURFACE ACOUSTIC WAVE FILTER WITH ENHANCED EDGE STEEPNESS	Granted
B. EPCOS AG	EP	1997P1920	98943697.7	14-Jul-1998		EP0995265	SURFACE ACOUSTIC WAVE FILTER WITH ENHANCED EDGE STEEPNESS	Granted
B. EPCOS AG	FR	1997P1920	98943697.7	14-Jul-1998		EP0995265	SURFACE ACOUSTIC WAVE FILTER WITH ENHANCED EDGE STEEPNESS	Granted
B. EPCOS AG	GB	1997P1920	98943697.7	14-Jul-1998		EP0995265	SURFACE ACOUSTIC WAVE FILTER WITH ENHANCED EDGE STEEPNESS	Granted
B. EPCOS AG	JP	1997P1920	2000-503598	14-Jul-1998		4430228	SURFACE ACOUSTIC WAVE FILTER WITH ENHANCED EDGE STEEPNESS	Granted
B. EPCOS AG	KR	1997P1920	10-2000-7000530	14-Jul-1998		10-0488251	SURFACE ACOUSTIC WAVE FILTER WITH ENHANCED EDGE STEEPNESS	Granted
B. EPCOS AG	US	1997P1920	09/484,798	14-Jul-1998		6,351,197	SURFACE ACOUSTIC WAVE FILTER WITH ENHANCED EDGE STEEPNESS	Granted
B. EPCOS AG	WO	1997P1920	PCT/DE98/01972	14-Jul-1998			SURFACE ACOUSTIC WAVE FILTER WITH ENHANCED EDGE STEEPNESS	National
B. EPCOS AG	DE	1997P6540	19758198.6	30-Dec-1997			SURFACE ACOUSTIC WAVE COMPONENT ON A MONOCRYSTAL SUBSTRATE WHICH IS ALSO PYROELECTRIC	Abandoned
B. EPCOS AG	DE	1997P6540	59806077.4	22-Dec-1998		EP1044500	SURFACE ACOUSTIC WAVE COMPONENT ON A MONOCRYSTAL SUBSTRATE WHICH IS ALSO PYROELECTRIC	Granted
B. EPCOS AG	EP	1997P6540	98966572.4	22-Dec-1998		EP1044500	SURFACE ACOUSTIC WAVE COMPONENT ON A MONOCRYSTAL SUBSTRATE WHICH IS ALSO PYROELECTRIC	Granted
B. EPCOS AG	GB	1997P6540	98966572.4	22-Dec-1998		EP1044500	SURFACE ACOUSTIC WAVE COMPONENT ON A MONOCRYSTAL SUBSTRATE WHICH IS ALSO PYROELECTRIC	Abandoned

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	JP	1997P6540	2000-528011	22-Dec-1998			SURFACE ACOUSTIC WAVE COMPONENT ON A MONOCRYSTAL SUBSTRATE WHICH IS ALSO PYROELECTRIC	Abandoned
B. EPCOS AG	KR	1997P6540	10-2000-7007347	22-Dec-1998			SURFACE ACOUSTIC WAVE COMPONENT ON A MONOCRYSTAL SUBSTRATE WHICH IS ALSO PYROELECTRIC	Abandoned
B. EPCOS AG	US	1997P6540	09/582,183	22-Dec-1998		6,677,696	SURFACE ACOUSTIC WAVE COMPONENT ON A MONOCRYSTAL SUBSTRATE WHICH IS ALSO PYROELECTRIC	abandoned
B. EPCOS AG	WO	1997P6540	PCT/DE98/03769	22-Dec-1998			SURFACE ACOUSTIC WAVE COMPONENT ON A MONOCRYSTAL SUBSTRATE WHICH IS ALSO PYROELECTRIC	National
B. EPCOS AG	CA	1998P1186	2320907	16-Feb-1999			ELECTRONIC COMPONENT, ESPECIALLY A COMPONENT WORKING WITH ACOUSTIC SURFACE WAVES	Abandoned
B. EPCOS AG	CH	1998P1186	99915480.0	16-Feb-1999		EP1057258	ELECTRONIC COMPONENT, ESPECIALLY A COMPONENT WORKING WITH ACOUSTIC SURFACE WAVES	Granted
B. EPCOS AG	CN	1998P1186	99803030.9	16-Feb-1999		ZL99803030.9	ELECTRONIC COMPONENT, ESPECIALLY A COMPONENT WORKING WITH ACOUSTIC SURFACE WAVES	Granted
B. EPCOS AG	DE	1998P1186	59903249.9	16-Feb-1999		EP1057258	ELECTRONIC COMPONENT, ESPECIALLY A COMPONENT WORKING WITH ACOUSTIC SURFACE WAVES	Granted
B. EPCOS AG	DE	1998P1186	19806550.7	17-Feb-1998		19806550	ELECTRONIC COMPONENT, ESPECIALLY A COMPONENT WORKING WITH ACOUSTIC SURFACE WAVES	Abandoned
B. EPCOS AG	EP	1998P1186	99915480.0	16-Feb-1999		EP1057258	ELECTRONIC COMPONENT, ESPECIALLY A COMPONENT WORKING WITH ACOUSTIC SURFACE WAVES	Granted
B. EPCOS AG	FR	1998P1186	99915480.0	16-Feb-1999		EP1057258	ELECTRONIC COMPONENT, ESPECIALLY A COMPONENT WORKING WITH ACOUSTIC SURFACE WAVES	Granted
B. EPCOS AG	GB	1998P1186	99915480.0	16-Feb-1999		EP1057258	ELECTRONIC COMPONENT, ESPECIALLY A COMPONENT WORKING WITH ACOUSTIC SURFACE WAVES	Granted
B. EPCOS AG	JP	1998P1186	2000-531906	16-Feb-1999		4369047	ELECTRONIC COMPONENT, ESPECIALLY A COMPONENT WORKING WITH ACOUSTIC SURFACE WAVES	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	KR	1998P1186	10-2000-7008621	16-Feb-1999		10-0563852	ELECTRONIC COMPONENT, ESPECIALLY A COMPONENT WORKING WITH ACOUSTIC SURFACE WAVES	Granted
B. EPCOS AG	LI	1998P1186	99915480.0	16-Feb-1999		EP1057258	ELECTRONIC COMPONENT, ESPECIALLY A COMPONENT WORKING WITH ACOUSTIC SURFACE WAVES	Granted
B. EPCOS AG	US	1998P1186	09/622,139	16-Feb-1999		6,685,168	ELECTRONIC COMPONENT, ESPECIALLY A COMPONENT WORKING WITH ACOUSTIC SURFACE WAVES	Granted
B. EPCOS AG	WO	1998P1186	PCT/DE99/00420	16-Feb-1999			ELECTRONIC COMPONENT, ESPECIALLY A COMPONENT WORKING WITH ACOUSTIC SURFACE WAVES	National
B. EPCOS AG	CA	1998P1195	2321473	5-Feb-1999			PROCESS FOR MANUFACTURING AN ELECTRONIC COMPONENT, IN PARTICULAR A SURFACE-WAVE COMPONENT WORKING WITH ACOUSTIC SURFACE WAVES	Abandoned
B. EPCOS AG	CH	1998P1195	99913068.5	5-Feb-1999		EP1055285	PROCESS FOR MANUFACTURING AN ELECTRONIC COMPONENT, IN PARTICULAR A SURFACE-WAVE COMPONENT WORKING WITH ACOUSTIC SURFACE WAVES	Abandoned
B. EPCOS AG	CN	1998P1195	99803133.X	5-Feb-1999		ZL99803133.X	PROCESS FOR MANUFACTURING AN ELECTRONIC COMPONENT, IN PARTICULAR A SURFACE-WAVE COMPONENT WORKING WITH ACOUSTIC SURFACE WAVES	Granted
B. EPCOS AG	DE	1998P1195	19806818.2	18-Feb-1998		19806818	PROCESS FOR MANUFACTURING AN ELECTRONIC COMPONENT, IN PARTICULAR A SURFACE-WAVE COMPONENT WORKING WITH ACOUSTIC SURFACE WAVES	Abandoned
B. EPCOS AG	DE	1998P1195	59903019.4	5-Feb-1999		DE59903019C0	PROCESS FOR MANUFACTURING AN ELECTRONIC COMPONENT, IN PARTICULAR A SURFACE-WAVE COMPONENT WORKING WITH ACOUSTIC SURFACE WAVES	Granted
B. EPCOS AG	EP	1998P1195	99913068.5	5-Feb-1999		EP1055285	PROCESS FOR MANUFACTURING AN ELECTRONIC COMPONENT, IN PARTICULAR A SURFACE-WAVE COMPONENT WORKING WITH ACOUSTIC SURFACE WAVES	Granted
B. EPCOS AG	FR	1998P1195	99913068.5	5-Feb-1999		EP1055285	PROCESS FOR MANUFACTURING AN ELECTRONIC COMPONENT, IN PARTICULAR A SURFACE-WAVE COMPONENT WORKING WITH ACOUSTIC SURFACE WAVES	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	GB	1998P1195	99913068.5	5-Feb-1999		EP1055285	PROCESS FOR MANUFACTURING AN ELECTRONIC COMPONENT, IN PARTICULAR A SURFACE-WAVE COMPONENT WORKING WITH ACOUSTIC SURFACE WAVES	Granted
B. EPCOS AG	JP	1998P1195	2000-532914	5-Feb-1999			PROCESS FOR MANUFACTURING AN ELECTRONIC COMPONENT, IN PARTICULAR A SURFACE-WAVE COMPONENT WORKING WITH ACOUSTIC SURFACE WAVES	Abandoned
B. EPCOS AG	KR	1998P1195	10-2000-7008945	5-Feb-1999		10-0587829	PROCESS FOR MANUFACTURING AN ELECTRONIC COMPONENT, IN PARTICULAR A SURFACE-WAVE COMPONENT WORKING WITH ACOUSTIC SURFACE WAVES	Granted
B. EPCOS AG	LI	1998P1195	99913068.5	2-May-1999		EP1055285	PROCESS FOR MANUFACTURING AN ELECTRONIC COMPONENT, IN PARTICULAR A SURFACE-WAVE COMPONENT WORKING WITH ACOUSTIC SURFACE WAVES	Abandoned
B. EPCOS AG	US	1998P1195	09/622,351	5-Feb-1999		6,722,030	PROCESS FOR MANUFACTURING AN ELECTRONIC COMPONENT, IN PARTICULAR A SURFACE-WAVE COMPONENT WORKING WITH ACOUSTIC SURFACE WAVES	Granted
B. EPCOS AG	WO	1998P1195	PCT/DE99/00307	5-Feb-1999			PROCESS FOR MANUFACTURING AN ELECTRONIC COMPONENT, IN PARTICULAR A SURFACE-WAVE COMPONENT WORKING WITH ACOUSTIC SURFACE WAVES	National
B. EPCOS AG	DE	1998P1374	59910901.7	12-Feb-1999		EP1074058	MICROWAVE CERAMIC FILTER WITH AN IMPROVED EDGE STEEPNESS	Granted
B. EPCOS AG	DE	1998P1374	29903966.8	4-Mar-1999			Ceramic microwave filter with improved slope	abandoned
B. EPCOS AG	DE	1998P1374	19811861.9	18-Mar-1998			Ceramic microwave filter having greater edge steepness	Abandoned
B. EPCOS AG	EP	1998P1374	99910137.1	12-Feb-1999		EP1074058	MICROWAVE CERAMIC FILTER WITH AN IMPROVED EDGE STEEPNESS	Granted
B. EPCOS AG	FR	1998P1374	99910137.1	12-Feb-1999		EP1074058	MICROWAVE CERAMIC FILTER WITH AN IMPROVED EDGE STEEPNESS	Granted
B. EPCOS AG	GB	1998P1374	99910137.1	12-Feb-1999		EP1074058	MICROWAVE CERAMIC FILTER WITH AN IMPROVED EDGE STEEPNESS	Granted
B. EPCOS AG	US	1998P1374	09/664,000	12-Feb-1999		6,552,633	CERAMIC MICROWAVE FILTER HAVING IMPROVED EDGE STEEPNESS	Abandoned

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	WO	1998P1374	PCT/DE99/00405	12-Feb-1999			MICROWAVE CERAMIC FILTER WITH AN IMPROVED EDGE STEEPNESS	National
B. EPCOS AG	CA	1998P1407	2325434	22-Mar-1999			SURFACE-WAVE ACOUSTIC FILTER	Abandoned
B. EPCOS AG	CN	1998P1407	99804380.X	22-Mar-1999			SURFACE-WAVE ACOUSTIC FILTER	Abandoned
B. EPCOS AG	DE	1998P1407	19812641.7	23-Mar-1998			SURFACE-WAVE ACOUSTIC FILTER	Abandoned
B. EPCOS AG	DE	1998P1407	59913935.8	22-Mar-1999		EP1064724	SURFACE-WAVE ACOUSTIC FILTER	Granted
B. EPCOS AG	EP	1998P1407	99922063.5	22-Mar-1999		EP1064724	SURFACE-WAVE ACOUSTIC FILTER	National
B. EPCOS AG	JP	1998P1407	2000-538432	22-Mar-1999			SURFACE-WAVE ACOUSTIC FILTER	Abandoned
B. EPCOS AG	KR	1998P1407	10-2000-7010487	22-Mar-1999			SURFACE-WAVE ACOUSTIC FILTER	Abandoned
B. EPCOS AG	LI	1998P1407	99922063.5	22-Mar-1999		EP1064724	SURFACE-WAVE ACOUSTIC FILTER	Lapsed
B. EPCOS AG	US	1998P1407	09/668,490	22-Mar-1999		6,441,704	SURFACE ACOUSTIC WAVE FILTER HAVING BALANCED CROSSTALK CAPACITANCES IN SYMMETRIC OPERATION	Granted
B. EPCOS AG	WO	1998P1407	PCT/DE99/00843	22-Mar-1999			SURFACE-WAVE ACOUSTIC FILTER	National
B. EPCOS AG	DE	1998P1545	19818038.1	22-Apr-1998		19818038	Dual-mode surface acoustic wave filter	Granted
B. EPCOS AG	CA	1998P1568	2330039	25-Mar-1999			ELECTRONIC COMPONENT	Abandoned
B. EPCOS AG	CN	1998P1568	99805225.6	25-Mar-1999		ZL99805225.6	ELECTRONIC COMPONENT	Granted
B. EPCOS AG	DE	1998P1568	19818824.2	27-Apr-1998		19818824	An electronic device and method for its production	Granted
B. EPCOS AG	EP	1998P1568	99920557.8	25-Mar-1999			ELECTRONIC COMPONENT	Abandoned
B. EPCOS AG	JP	1998P1568	2000-546452	25-Mar-1999			ELECTRONIC COMPONENT	Abandoned
B. EPCOS AG	KR	1998P1568	10-2000-7011827	25-Mar-1999			ELECTRONIC COMPONENT	Abandoned
B. EPCOS AG	US	1998P1568	09/699,321	25-Mar-1999		6,519,822	A METHOD FOR PRODUCING AN ELECTRONIC COMPONENT	Granted
B. EPCOS AG	WO	1998P1568	PCT/DE99/00895	25-Mar-1999			ELECTRONIC COMPONENT	National
B. EPCOS AG	DE	1998P1570	19818826.9	27-Apr-1998		19818826	Surface wave filters with increased bandwidth	Granted
B. EPCOS AG	CA	1998P1645	2331277	5-May-1999			PLANAR RESIST STRUCTURE, ESPECIALLY AN ENCAPSULATION FOR ELECTRIC COMPONENTS AND THERMOMECHANICAL PRODUCTION PROCESS	Abandoned
B. EPCOS AG	CN	1998P1645	99807714.3	5-May-1999		ZL99807714.3	PLANAR RESIST STRUCTURE, ESPECIALLY AN ENCAPSULATION FOR ELECTRIC COMPONENTS AND A THERMOMECHANICAL METHOD FOR THE PRODUCTION THEREOF	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Casenumber	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	DE	1998P1645	59904049.1	5-May-1999		EP1078454	PLANAR RESIST STRUCTURE, ESPECIALLY AN ENCAPSULATION FOR ELECTRIC COMPONENTS AND A THERMOMECHANICAL METHOD FOR THE PRODUCTION THEREOF	Granted
B. EPCOS AG	DE	1998P1645	19820049.8	5-May-1998		19820049	A thermo-mechanical method for planarizing a photo technically be structured layer, in particular encapsulation of electronic components	Abandoned
B. EPCOS AG	EP	1998P1645	99932628.3	5-May-1999		EP1078454	PLANAR RESIST STRUCTURE, ESPECIALLY AN ENCAPSULATION FOR ELECTRIC COMPONENTS AND A THERMOMECHANICAL METHOD FOR THE PRODUCTION THEREOF	Granted
B. EPCOS AG	FR	1998P1645	99932628.3	5-May-1999		EP1078454	PLANAR RESIST STRUCTURE, ESPECIALLY AN ENCAPSULATION FOR ELECTRIC COMPONENTS AND A THERMOMECHANICAL METHOD FOR THE PRODUCTION THEREOF	Granted
B. EPCOS AG	GB	1998P1645	99932628.3	5-May-1999		EP1078454	PLANAR RESIST STRUCTURE, ESPECIALLY AN ENCAPSULATION FOR ELECTRIC COMPONENTS AND A THERMOMECHANICAL METHOD FOR THE PRODUCTION THEREOF	Granted
B. EPCOS AG	JP	1998P1645	2000-547695	5-May-1999			PLANAR RESIST STRUCTURE, ESPECIALLY AN ENCAPSULATION FOR ELECTRIC COMPONENTS AND A THERMOMECHANICAL METHOD FOR THE PRODUCTION THEREOF	Abandoned
B. EPCOS AG	KR	1998P1645	10-2000-7012240	5-May-1999		10-0651318	PLANAR RESIST STRUCTURE, ESPECIALLY AN ENCAPSULATION FOR ELECTRIC COMPONENTS AND A THERMOMECHANICAL METHOD FOR THE PRODUCTION THEREOF	Granted
B. EPCOS AG	US	1998P1645	10/205,210	5-May-1999			Thermomechanical process for producing a planar resist structure	Abandoned
B. EPCOS AG	US	1998P1645	09/707,029	5-May-1999		6,462,272	PLANAR RESIST STRUCTURE, IN PARTICULAR AN ENCAPSULATION FOR ELECTRONIC COMPONENT, AND THERMOMECHANICAL PRODUCTION PROCESS	Granted
B. EPCOS AG	WO	1998P1645	PCT/DE99/01352	5-May-1999			PLANAR RESIST STRUCTURE, ESPECIALLY AN ENCAPSULATION FOR ELECTRIC COMPONENTS AND A THERMOMECHANICAL METHOD FOR THE PRODUCTION THEREOF	National
B. EPCOS AG	DE	1998P1745	19822781.7	20-May-1998		19822781	Optimized pyroelectric high voltage generator	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Classnumber	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	CA	1998P1750	2332891	3-May-1999			MULTIPLE BLANK FOR ELECTRONIC COMPONENTS, IN PARTICULAR SURFACE ACOUSTIC WAVE COMPONENTS, AND METHOD OF BUILDING UP BUMPS, SOLDER FRAMES, SPACERS AND THE LIKE ON THE MULTIPLE BLANK	Abandoned
B. EPCOS AG	CH	1998P1750	99930999.0	3-May-1999		EP1080615	MULTIPLE PRINTED PANEL FOR ELECTRONIC COMPONENTS, AND METHOD FOR CONSTRUCTING BUMPS, SOLDERING FRAMES, SPACERS AND SIMILAR ON SAID MULTIPLE PRINTED PANEL	Abandoned
B. EPCOS AG	CN	1998P1750	99806410.6	3-May-1999		ZL99806410.6	MULTIPLE PRINTED PANEL FOR ELECTRONIC COMPONENTS, AND METHOD FOR CONSTRUCTING BUMPS, SOLDERING FRAMES, SPACERS AND SIMILAR ON SAID MULTIPLE PRINTED PANEL	Granted
B. EPCOS AG	DE	1998P1750	59900868.7	3-May-1999		EP1080615	MULTIPLE PRINTED PANEL FOR ELECTRONIC COMPONENTS, AND METHOD FOR CONSTRUCTING BUMPS, SOLDERING FRAMES, SPACERS AND SIMILAR ON SAID MULTIPLE PRINTED PANEL	Granted
B. EPCOS AG	DE	1998P1750	19822794.9	20-May-1998		19822794	Multiple uses for electronic components, especially surface acoustic wave devices	Abandoned
B. EPCOS AG	EP	1998P1750	99930999.0	3-May-1999		EP1080615	MULTIPLE PRINTED PANEL FOR ELECTRONIC COMPONENTS, AND METHOD FOR CONSTRUCTING BUMPS, SOLDERING FRAMES, SPACERS AND SIMILAR ON SAID MULTIPLE PRINTED PANEL	Granted
B. EPCOS AG	FR	1998P1750	99930999.0	3-May-1999		EP1080615	MULTIPLE PRINTED PANEL FOR ELECTRONIC COMPONENTS, AND METHOD FOR CONSTRUCTING BUMPS, SOLDERING FRAMES, SPACERS AND SIMILAR ON SAID MULTIPLE PRINTED PANEL	Granted
B. EPCOS AG	GB	1998P1750	99930999.0	3-May-1999		EP1080615	MULTIPLE PRINTED PANEL FOR ELECTRONIC COMPONENTS, AND METHOD FOR CONSTRUCTING BUMPS, SOLDERING FRAMES, SPACERS AND SIMILAR ON SAID MULTIPLE PRINTED PANEL	Granted
B. EPCOS AG	JP	1998P1750	2000-550311	3-May-1999		4276784	MULTIPLE PRINTED PANEL FOR ELECTRONIC COMPONENTS, AND METHOD FOR CONSTRUCTING BUMPS, SOLDERING	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
							FRAMES, SPACERS AND SIMILAR ON SAID MULTIPLE PRINTED PANEL	
B. EPCOS AG	KR	1998P1750	10-2000-7013041	3-May-1999		10-0571760	MULTIPLE PRINTED PANEL FOR ELECTRONIC COMPONENTS, AND METHOD FOR CONSTRUCTING BUMPS, SOLDERING FRAMES, SPACERS AND SIMILAR ON SAID MULTIPLE PRINTED PANEL	Granted
B. EPCOS AG	LI	1998P1750	99930999.0	5-Mar-1999		EP1080615	MULTIPLE PRINTED PANEL FOR ELECTRONIC COMPONENTS, AND METHOD FOR CONSTRUCTING BUMPS, SOLDERING FRAMES, SPACERS AND SIMILAR ON SAID MULTIPLE PRINTED PANEL	Abandoned
B. EPCOS AG	US	1998P1750	09/716,339	3-May-1999		6,555,758	MULTIPLE BLANK FOR ELECTRONIC COMPONENTS SUCH AS SAW COMPONENTS, AND METHOD OF BUILDING UP BUMPS, SOLDER FRAMES, SPACERS AND THE LIKE	Granted
B. EPCOS AG	WO	1998P1750	PCT/DE99/01315	3-May-1999			MULTIPLE PRINTED PANEL FOR ELECTRONIC COMPONENTS, AND METHOD FOR CONSTRUCTING BUMPS, SOLDERING FRAMES, SPACERS AND SIMILAR ON SAID MULTIPLE PRINTED PANEL	National
B. EPCOS AG	CA	1998P2971	2343885	26-Oct-1999			SURFACE ACOUSTIC WAVE ARRANGEMENT WITH AT LEAST TWO SURFACE ACOUSTIC WAVE STRUCTURES	Abandoned
B. EPCOS AG	CH	1998P2971	99955882.8	26-Oct-1999		EP1125364	SURFACE ACOUSTIC WAVE ARRANGEMENT WITH AT LEAST TWO SURFACE ACOUSTIC WAVE STRUCTURES	Abandoned
B. EPCOS AG	CN	1998P2971	99812800.7	26-Oct-1999		ZL99812800.7	SURFACE ACOUSTIC WAVE ARRANGEMENT WITH AT LEAST TWO SURFACE ACOUSTIC WAVE STRUCTURES	Granted
B. EPCOS AG	DE	1998P2971	59901876.3	26-Oct-1999		EP1125364	SURFACE ACOUSTIC WAVE ARRANGEMENT WITH AT LEAST TWO SURFACE ACOUSTIC WAVE STRUCTURES	Granted
B. EPCOS AG	DE	1998P2971	19849782.2	28-Oct-1998		19849782	SURFACE ACOUSTIC WAVE ARRANGEMENT WITH AT LEAST TWO SURFACE ACOUSTIC WAVE STRUCTURES	Granted
B. EPCOS AG	EP	1998P2971	02014180.0	26-Oct-1999			SURFACE ACOUSTIC WAVE ARRANGEMENT WITH AT LEAST TWO SURFACE ACOUSTIC WAVE STRUCTURES	Abandoned

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	EP	1998P2971	99955882.8	26-Oct-1999		EP1125364	SURFACE ACOUSTIC WAVE ARRANGEMENT WITH AT LEAST TWO SURFACE ACOUSTIC WAVE STRUCTURES	Granted
B. EPCOS AG	FR	1998P2971	99955882.8	26-Oct-1999		EP1125364	SURFACE ACOUSTIC WAVE ARRANGEMENT WITH AT LEAST TWO SURFACE ACOUSTIC WAVE STRUCTURES	Granted
B. EPCOS AG	GB	1998P2971	99955882.8	26-Oct-1999		EP1125364	SURFACE ACOUSTIC WAVE ARRANGEMENT WITH AT LEAST TWO SURFACE ACOUSTIC WAVE STRUCTURES	Granted
B. EPCOS AG	JP	1998P2971	2000-578906	26-Oct-1999		3746194	SURFACE ACOUSTIC WAVE ARRANGEMENT WITH AT LEAST TWO SURFACE ACOUSTIC WAVE STRUCTURES	Granted
B. EPCOS AG	KR	1998P2971	10-2001-7005380	26-Oct-1999		10-0646899	SURFACE ACOUSTIC WAVE ARRANGEMENT WITH AT LEAST TWO SURFACE ACOUSTIC WAVE STRUCTURES	Granted
B. EPCOS AG	LI	1998P2971	99955882.8	26-Oct-1999		EP1125364	SURFACE ACOUSTIC WAVE ARRANGEMENT WITH AT LEAST TWO SURFACE ACOUSTIC WAVE STRUCTURES	Abandoned
B. EPCOS AG	US	1998P2971	09/830,622	26-Oct-1999		6,420,946	SURFACE ACOUSTIC WAVE ARRANGEMENT WITH A JUNCTION REGION BETWEEN SURFACE ACOUSTIC WAVE STRUCTURES HAVING STRUCTURES HAVING A DECREASING THEN INCREASING FINGER PERIOD	abandoned
B. EPCOS AG	US	1998P2971	10/890,553	26-Oct-1999		RE39,538	SURFACE ACOUSTIC WAVE ARRANGEMENT WITH A JUNCTION REGION BETWEEN SURFACE ACOUSTIC WAVE STRUCTURES HAVING A DECREASING THEN INCREASING FINGER PERIOD	Granted
B. EPCOS AG	WO	1998P2971	PCT/EP99/08074	26-Oct-1999			SURFACE ACOUSTIC WAVE ARRANGEMENT WITH AT LEAST TWO SURFACE ACOUSTIC WAVE STRUCTURES	National
B. EPCOS AG	DE	1998P6008	19900326.2	7-Jan-1999		19900326	Transverse mode and resonator filter assembly	Granted
B. EPCOS AG	CA	1999P2288	2378303	6-Jul-2000			SURFACE ACOUSTIC WAVE (SAW) FILTER OF THE REACTANCE FILTER TYPE EXHIBITING IMPROVED STOP BAND SUPPRESSION AND METHOD FOR OPTIMIZING THE STOP BAND SUPPRESSION	Abandoned
B. EPCOS AG	CH	1999P2288	00956061.6	6-Jul-2000		EP1196991	SURFACE ACOUSTIC WAVE (SAW) FILTER OF THE REACTANCE FILTER TYPE EXHIBITING	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Casenumber	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
							IMPROVED STOP BAND SUPPRESSION AND METHOD FOR OPTIMIZING THE STOP BAND SUPPRESSION	
B. EPCOS AG	CN	1999P2288	00810319.4	6-Jul-2000		ZL00810319.4	SURFACE ACOUSTIC WAVE (SAW) FILTER OF THE REACTANCE FILTER TYPE EXHIBITING IMPROVED STOP BAND SUPPRESSION AND METHOD FOR OPTIMIZING THE STOP BAND SUPPRESSION	Granted
B. EPCOS AG	DE	1999P2288	19932649.5	13-Jul-1999			SURFACE ACOUSTIC WAVE (SAW) FILTER OF THE REACTANCE FILTER TYPE EXHIBITING IMPROVED STOP BAND SUPPRESSION AND METHOD FOR OPTIMIZING THE STOP BAND SUPPRESSION	Abandoned
B. EPCOS AG	DE	1999P2288	50010569.3	6-Jul-2000		EP1196991	SURFACE ACOUSTIC WAVE (SAW) FILTER OF THE REACTANCE FILTER TYPE EXHIBITING IMPROVED STOP BAND SUPPRESSION AND METHOD FOR OPTIMIZING THE STOP BAND SUPPRESSION	Granted
B. EPCOS AG	EP	1999P2288	00956061.6	6-Jul-2000		EP1196991	SURFACE ACOUSTIC WAVE (SAW) FILTER OF THE REACTANCE FILTER TYPE EXHIBITING IMPROVED STOP BAND SUPPRESSION AND METHOD FOR OPTIMIZING THE STOP BAND SUPPRESSION	Granted
B. EPCOS AG	FR	1999P2288	00956061.6	6-Jul-2000		EP1196991	SURFACE ACOUSTIC WAVE (SAW) FILTER OF THE REACTANCE FILTER TYPE EXHIBITING IMPROVED STOP BAND SUPPRESSION AND METHOD FOR OPTIMIZING THE STOP BAND SUPPRESSION	Granted
B. EPCOS AG	GB	1999P2288	00956061.6	6-Jul-2000		EP1196991	SURFACE ACOUSTIC WAVE (SAW) FILTER OF THE REACTANCE FILTER TYPE EXHIBITING IMPROVED STOP BAND SUPPRESSION AND METHOD FOR OPTIMIZING THE STOP BAND SUPPRESSION	Granted
B. EPCOS AG	JP	1999P2288	2001-509153	6-Jul-2000		3510874	SURFACE ACOUSTIC WAVE (SAW) FILTER OF THE REACTANCE FILTER TYPE EXHIBITING IMPROVED STOP BAND SUPPRESSION AND METHOD FOR OPTIMIZING THE STOP BAND SUPPRESSION	Granted
B. EPCOS AG	KR	1999P2288	10-2002-7000444	6-Jul-2000		10-0486181	SURFACE ACOUSTIC WAVE (SAW) FILTER OF THE REACTANCE FILTER TYPE EXHIBITING IMPROVED STOP BAND SUPPRESSION AND	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Count	Family Classnumber	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
							METHOD FOR OPTIMIZING THE STOP BAND SUPPRESSION	
B. EPCOS AG	LI	1999P2288	00956061.6	7-Jun-2000		EP1196991	SURFACE ACOUSTIC WAVE (SAW) FILTER OF THE REACTANCE FILTER TYPE EXHIBITING IMPROVED STOP BAND SUPPRESSION AND METHOD FOR OPTIMIZING THE STOP BAND SUPPRESSION	Granted
B. EPCOS AG	US	1999P2288	10/030,856	6-Jul-2000		6,747,530	SURFACE ACOUSTIC WAVE (SAW) FILTER OF THE REACTANCE FILTER TYPE EXHIBITING IMPROVED STOP BAND SUPPRESSION AND METHOD FOR OPTIMIZING THE STOP BAND SUPPRESSION	Granted
B. EPCOS AG	WO	1999P2288	PCT/DE00/02202	6-Jul-2000			SURFACE ACOUSTIC WAVE (SAW) FILTER OF THE REACTANCE FILTER TYPE EXHIBITING IMPROVED STOP BAND SUPPRESSION AND METHOD FOR OPTIMIZING THE STOP BAND SUPPRESSION	National
B. EPCOS AG	DE	1999P2313	19933548.6	16-Jul-1999		19933548	Passivated electronic device and method for producing a passivation an electronic component	Granted
B. EPCOS AG	CA	1999P2485	2381262	26-Jul-2000			DUAL-MODE SURFACE WAVE FILTER WITH ENHANCED SYMMETRY AND OPTIONALLY ENHANCED STOP-BAND ATTENUATION	Abandoned
B. EPCOS AG	CN	1999P2485	00811762.4	26-Jul-2000		ZL00811762.4	DUAL-MODE SURFACE WAVE FILTER WITH ENHANCED SYMMETRY AND OPTIONALLY ENHANCED STOP-BAND ATTENUATION	Granted
B. EPCOS AG	DE	1999P2485	50011392.0	26-Jul-2000		EP1205026	DUAL-MODE SURFACE WAVE FILTER WITH ENHANCED SYMMETRY AND OPTIONALLY ENHANCED STOP-BAND ATTENUATION	Granted
B. EPCOS AG	DE	1999P2485	19938748.6	16-Aug-1999		19938748	Dual-mode surface wave filters with improved symmetry and increased stopband attenuation	Granted
B. EPCOS AG	EP	1999P2485	00956095.4	26-Jul-2000		EP1205026	DUAL-MODE SURFACE WAVE FILTER WITH ENHANCED SYMMETRY AND OPTIONALLY ENHANCED STOP-BAND ATTENUATION	Granted
B. EPCOS AG	FR	1999P2485	00956095.4	26-Jul-2000		EP1205026	DUAL-MODE SURFACE WAVE FILTER WITH ENHANCED SYMMETRY AND OPTIONALLY ENHANCED STOP-BAND ATTENUATION	Granted
B. EPCOS AG	GB	1999P2485	00956095.4	26-Jul-2000		EP1205026	DUAL-MODE SURFACE WAVE FILTER WITH ENHANCED SYMMETRY AND OPTIONALLY ENHANCED STOP-BAND ATTENUATION	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	JP	1999P2485	2001-517699	26-Jul-2000		4739624	DUAL-MODE SURFACE WAVE FILTER WITH ENHANCED SYMMETRY AND OPTIONALLY ENHANCED STOP-BAND ATTENUATION	Granted
B. EPCOS AG	KR	1999P2485	10-2002-7001975	26-Jul-2000		10-0732265	DUAL-MODE SURFACE WAVE FILTER WITH ENHANCED SYMMETRY AND OPTIONALLY ENHANCED STOP-BAND ATTENUATION	Granted
B. EPCOS AG	US	1999P2485	10/049,954	26-Jul-2000		6,667,673	DUAL-MODE SURFACE WAVE FILTER WITH ENHANCED SYMMETRY AND OPTIONALLY ENHANCED STOP-BAND ATTENUATION	Granted
B. EPCOS AG	WO	1999P2485	PCT/DE00/02448	26-Jul-2000			DUAL-MODE SURFACE WAVE FILTER WITH ENHANCED SYMMETRY AND OPTIONALLY ENHANCED STOP-BAND ATTENUATION	National
B. EPCOS AG	CA	P1999,0007	2392833	6-Dec-2000			Duplexer with improved transmission / reception band separation	Abandoned
B. EPCOS AG	CN	P1999,0007	00817227.7	6-Dec-2000			Duplexer with improved transmission / reception band separation	Abandoned
B. EPCOS AG	DE	P1999,0007	19960299.9	14-Dec-1999			Duplexer with improved transmission / reception band separation	Abandoned
B. EPCOS AG	EP	P1999,0007	00993470.4	6-Dec-2000			Duplexer with improved transmission / reception band separation	Abandoned
B. EPCOS AG	JP	P1999,0007	2001-545444	6-Dec-2000			Duplexer with improved transmission / reception band separation	Abandoned
B. EPCOS AG	KR	P1999,0007	10-2002-7007609	6-Dec-2000			Duplexer with improved transmission / reception band separation	Abandoned
B. EPCOS AG	US	P1999,0007	10/149,828	6-Dec-2000		6,861,924	Duplexer with improved transmission / reception band separation	Granted
B. EPCOS AG	WO	P1999,0007	PCT/DE00/04344	6-Dec-2000			Duplexer with improved transmission / reception band separation	National
B. EPCOS AG	DE	P2000,0002	10000120.3	4-Jan-2000		10000120	Surface acoustic wave device with suppressed chip edge reflection	Granted
B. EPCOS AG	CA	P2000,0015	2399303	2-Feb-2001			SURFACE WAVE FILTER COMPRISING REACTANCE ELEMENTS	Abandoned
B. EPCOS AG	CN	P2000,0015	01805181.2	2-Feb-2001		ZL01805181.2	SURFACE WAVE FILTER COMPRISING REACTANCE ELEMENTS	Granted
B. EPCOS AG	DE	P2000,0015	50114948.1	2-Feb-2001		EP1256172	SURFACE WAVE FILTER COMPRISING REACTANCE ELEMENTS	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Count ¹	Family Classnumber	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	DE	P2000,0015	10007178.3	17-Feb-2000			SURFACE WAVE FILTERS WITH REACTANCE	Abandoned
B. EPCOS AG	EP	P2000,0015	01919126.1	2-Feb-2001		EP1256172	SURFACE WAVE FILTER COMPRISING REACTANCE ELEMENTS	National
B. EPCOS AG	JP	P2000,0015	2001-560539	2-Feb-2001		4824243	SURFACE WAVE FILTER COMPRISING REACTANCE ELEMENTS	Granted
B. EPCOS AG	KR	P2000,0015	10-2002-7010290	2-Feb-2001			SURFACE WAVE FILTER COMPRISING REACTANCE ELEMENTS	Abandoned
B. EPCOS AG	US	P2000,0015	10/204,283	2-Feb-2001		6,919,781	SURFACE WAVE FILTER COMPRISING REACTANCE ELEMENTS	Granted
B. EPCOS AG	WO	P2000,0015	PCT/DE01/00406	2-Feb-2001			SURFACE WAVE FILTER COMPRISING REACTANCE ELEMENTS	National
B. EPCOS AG	DE	P2000,0028	50114246.0	2-Feb-2001		EP1266450	RESONATOR FILTER THAT IS COUPLED TO TRANSVERSE MODES AND REQUIRES LESS SPACE	Granted
B. EPCOS AG	DE	P2000,0028	10009511.9	29-Feb-2000			RESONATOR FILTER THAT IS COUPLED TO TRANSVERSE MODES AND REQUIRES LESS SPACE	Abandoned
B. EPCOS AG	EP	P2000,0028	01919127.9	2-Feb-2001		EP1266450	RESONATOR FILTER THAT IS COUPLED TO TRANSVERSE MODES AND REQUIRES LESS SPACE	National
B. EPCOS AG	JP	P2000,0028	2001-564459	2-Feb-2001			RESONATOR FILTER THAT IS COUPLED TO TRANSVERSE MODES AND REQUIRES LESS SPACE	Abandoned
B. EPCOS AG	KR	P2000,0028	10-2002-7010965	2-Feb-2001			RESONATOR FILTER THAT IS COUPLED TO TRANSVERSE MODES AND REQUIRES LESS SPACE	Abandoned
B. EPCOS AG	WO	P2000,0028	PCT/DE01/00407	2-Feb-2001			RESONATOR FILTER THAT IS COUPLED TO TRANSVERSE MODES AND REQUIRES LESS SPACE	National
B. EPCOS AG	DE	P2000,0029	10009517.8	29-Feb-2000			INTERDIGITAL CONVERTER WITH DISTRIBUTED EXCITATION	Abandoned
B. EPCOS AG	DE	P2000,0029	50100655.9	2-Feb-2001		EP1266449	INTERDIGITAL CONVERTER WITH DISTRIBUTED EXCITATION	Granted
B. EPCOS AG	EP	P2000,0029	01919128.7	2-Feb-2001		EP1266449	INTERDIGITAL CONVERTER WITH DISTRIBUTED EXCITATION	Granted
B. EPCOS AG	FR	P2000,0029	01919128.7	2-Feb-2001		EP1266449	INTERDIGITAL CONVERTER WITH DISTRIBUTED EXCITATION	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	US	P2000,0029	10/220,322	2-Feb-2001		6,853,113	INTERDIGITAL CONVERTER WITH DISTRIBUTED EXCITATION	Granted
B. EPCOS AG	WO	P2000,0029	PCT/DE01/00408	2-Feb-2001			INTERDIGITAL CONVERTER WITH DISTRIBUTED EXCITATION	National
B. EPCOS AG	CA	P2000,0040	2403770	20-Feb-2001			A DUAL MODE SURFACE ACOUSTIC WAVE FILTER WITH IMPROVED SYMMETRY AND INCREASED STOP-BAND ATTENUATION	Abandoned
B. EPCOS AG	CN	P2000,0040	01806896.0	20-Feb-2001		ZL01806896.0	DUAL-MODE SURFACE WAVE FILTER WITH IMPROVED SYMMETRY AND INCREASED REVERSE ATTENUATION	Granted
B. EPCOS AG	DE	P2000,0040	10013861.6	21-Mar-2000			Dual mode surface wave filter with improved symmetry and increased blocking damping e.g. for mobile telephones, has acoustic track on piezoelectric substrate with interdigital converters as signal input and output	Abandoned
B. EPCOS AG	DE	P2000,0040	50116153.8	20-Feb-2001		EP1269627	DUAL-MODE SURFACE WAVE FILTER WITH IMPROVED SYMMETRY AND INCREASED REVERSE ATTENUATION	Granted
B. EPCOS AG	EP	P2000,0040	01915022.6	20-Feb-2001		EP1269627	DUAL-MODE SURFACE WAVE FILTER WITH IMPROVED SYMMETRY AND INCREASED REVERSE ATTENUATION	Granted
B. EPCOS AG	JP	P2000,0040	2001-569969	20-Feb-2001			DUAL-MODE SURFACE WAVE FILTER WITH IMPROVED SYMMETRY AND INCREASED REVERSE ATTENUATION	Abandoned
B. EPCOS AG	KR	P2000,0040	10-2002-7012324	20-Feb-2001		10-0742426	DUAL-MODE SURFACE WAVE FILTER WITH IMPROVED SYMMETRY AND INCREASED REVERSE ATTENUATION	Granted
B. EPCOS AG	TW	P2000,0040	90106217	16-Mar-2001		I508905	Dual-mode surface-wave filter with improved symmetry and increased cut-off-attenuation	Abandoned
B. EPCOS AG	US	P2000,0040	10/239,373	20-Feb-2001		6,791,437	SYMMETRIC DUAL MODE SURFACE ACOUSTIC WAVE FILTER HAVING SYMMETRIC HOUSING CONNECTIONS	Granted
B. EPCOS AG	WO	P2000,0040	PCT/DE01/00653	20-Feb-2001			DUAL-MODE SURFACE WAVE FILTER WITH IMPROVED SYMMETRY AND INCREASED REVERSE ATTENUATION	National
B. EPCOS AG	CN	P2000,0049	01807807.9	5-Mar-2001		ZL01807807.9	COMPONENT PROVIDED WITH A DESCRIPTION	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	DE	P2000,0049	50114686.5	5-Mar-2001		EP1269450	COMPONENT PROVIDED WITH A DESCRIPTION	Granted
B. EPCOS AG	DE	P2000,0049	10016867.1	5-Apr-2000			COMPONENT PROVIDED WITH A DESCRIPTION	Abandoned
B. EPCOS AG	EP	P2000,0049	01916902.8	5-Mar-2001		EP1269450	COMPONENT PROVIDED WITH A DESCRIPTION	National
B. EPCOS AG	JP	P2000,0049	2001-575408	5-Mar-2001		4709463	COMPONENT PROVIDED WITH A DESCRIPTION	Granted
B. EPCOS AG	US	P2000,0049	10/240,872	5-Mar-2001		6,838,739	COMPONENT WITH A LABEL	Granted
B. EPCOS AG	WO	P2000,0049	PCT/DE01/00833	5-Mar-2001			COMPONENT PROVIDED WITH A DESCRIPTION	National
B. EPCOS AG	DE	P2000,0086	10026074.8	25-May-2000		10026074	RECURSIVE SAW-FILTER WITH A LOW CHIP LENGTH	Granted
B. EPCOS AG	EP	P2000,0086	01942991.9	30-Apr-2001			RECURSIVE SAW-FILTER WITH A LOW CHIP LENGTH	Abandoned
B. EPCOS AG	JP	P2000,0086	2001-586778	30-Apr-2001			RECURSIVE SAW-FILTER WITH A LOW CHIP LENGTH	Abandoned
B. EPCOS AG	US	P2000,0086	10/296,100	30-Apr-2001		6,909,342	RECURSIVE SAW-FILTER WITH A LOW CHIP LENGTH	Granted
B. EPCOS AG	WO	P2000,0086	PCT/DE01/01629	30-Apr-2001			RECURSIVE SAW-FILTER WITH A LOW CHIP LENGTH	National
B. EPCOS AG	DE	P2000,0088	10025450.0	23-May-2000		10025450	SURFACE WAVE BANDPASS FILTER IN A SYSTEM HAVING THREE CONVERTERS	Granted
B. EPCOS AG	WO	P2000,0088	PCT/DE01/01781	10-May-2001			SURFACE WAVE BANDPASS FILTER IN A SYSTEM HAVING THREE CONVERTERS	Abandoned
B. EPCOS AG	DE	P2000,0193	10042350.7	29-Aug-2000		10042350	CERAMIC MATERIAL	Granted
B. EPCOS AG	EP	P2000,0193	01969230.0	13-Aug-2001			DIELECTRIC CERAMIC MATERIAL THAT CONTAINS SILVER, NIOBIUM AND TANTALATE	Abandoned
B. EPCOS AG	JP	P2000,0193	2002-523418	13-Aug-2001		5283813	DIELECTRIC CERAMIC MATERIAL THAT CONTAINS SILVER, NIOBIUM AND TANTALATE	Granted
B. EPCOS AG	TW	P2000,0193	90120855	24-Aug-2001		1243157	CERAMIC MATERIAL	Granted
B. EPCOS AG	US	P2000,0193	10/363,085	13-Aug-2001		6,956,001	DIELECTRIC CERAMIC MATERIAL	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	WO	P2000,0193	PCT/DE01/03100	13-Aug-2001			DIELECTRIC CERAMIC MATERIAL THAT CONTAINS SILVER, NIOBIUM AND TANTALATE	National
B. EPCOS AG	DE	P2000,0265	10053205,5	26-Oct-2000			COMBINED FRONT-END CIRCUIT FOR WIRELESS TRANSMISSION SYSTEMS	Allowed
B. EPCOS AG	JP	P2000,0265	2001-329623	26-Oct-2001			COMBINED FRONT-END CIRCUIT FOR WIRELESS TRANSMISSION SYSTEMS	Abandoned
B. EPCOS AG	US	P2000,0265	10/029,323	25-Oct-2001		7,142,884	COMBINED FRONT-END CIRCUIT FOR WIRELESS TRANSMISSION SYSTEMS	Granted
B. EPCOS AG	DE	P2000,0308	10057848,9	22-Nov-2000		10057848	REACTANCE WITH IMPROVED POWER COMPATIBILITY	Granted
B. EPCOS AG	DE	P2001,0003	10102747,8	22-Jan-2001		10102747	Piezoelectric substrate for components working with acoustic waves has a piezoelectric crystal substrate body with a main surface for component structures and a pattern embedded in a rear side and made up of zones	Granted
B. EPCOS AG	CN	P2001,0017	02803892,4	17-Jan-2002		ZL02803892,4	ELECTRIC CIRCUIT MODULE, CIRCUIT MODULE ARRANGEMENT AND USE OF SAID CIRCUIT MODULE AND OF SAID CIRCUIT MODULE ARRANGEMENT	Granted
B. EPCOS AG	DE	P2001,0017	10102201,8	18-Jan-2001		10102201	ELECTRIC CIRCUIT MODULE, CIRCUIT MODULE ARRANGEMENT AND USE OF SAID CIRCUIT MODULE AND OF SAID CIRCUIT MODULE ARRANGEMENT	Granted
B. EPCOS AG	DE	P2001,0017	50207433,7	17-Jan-2002		EP1352482	ELECTRIC CIRCUIT MODULE, CIRCUIT MODULE ARRANGEMENT AND USE OF SAID CIRCUIT MODULE AND OF SAID CIRCUIT MODULE ARRANGEMENT	Granted
B. EPCOS AG	EP	P2001,0017	06010317,3	17-Jan-2002			ELECTRIC CIRCUIT MODULE, CIRCUIT MODULE ARRANGEMENT AND USE OF SAID CIRCUIT MODULE AND OF SAID CIRCUIT MODULE ARRANGEMENT	Abandoned
B. EPCOS AG	EP	P2001,0017	02701195,6	17-Jan-2002		EP1352482	ELECTRIC CIRCUIT MODULE, CIRCUIT MODULE ARRANGEMENT AND USE OF SAID CIRCUIT MODULE AND OF SAID CIRCUIT MODULE ARRANGEMENT	Granted
B. EPCOS AG	FR	P2001,0017	02701195,6	17-Jan-2002		EP1352482	ELECTRIC CIRCUIT MODULE, CIRCUIT MODULE ARRANGEMENT AND USE OF SAID CIRCUIT MODULE AND OF SAID CIRCUIT MODULE ARRANGEMENT	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Count ¹	Family Classnumber	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
							CIRCUIT MODULE AND OF SAID CIRCUIT MODULE ARRANGEMENT	
B. EPCOS AG	GB	P2001,0017	02701195.6	17-Jan-2002		EP1352482	ELECTRIC CIRCUIT MODULE, CIRCUIT MODULE ARRANGEMENT AND USE OF SAID CIRCUIT MODULE AND OF SAID CIRCUIT MODULE ARRANGEMENT	Granted
B. EPCOS AG	JP	P2001,0017	2002-558612	17-Jan-2002			ELECTRIC CIRCUIT MODULE, CIRCUIT MODULE ARRANGEMENT AND USE OF SAID CIRCUIT MODULE AND OF SAID CIRCUIT MODULE ARRANGEMENT	Abandoned
B. EPCOS AG	TW	P2001,0017	91100365	14-Jan-2002		I561696	Electrical switch-module, switch-module-arrangement and application of the switch-module and switch-module-arrangement	Granted
B. EPCOS AG	US	P2001,0017	13/028,700	17-Feb-2011			ELECTRIC CIRCUIT MODULE, CIRCUIT MODULE ARRANGEMENT AND USE OF SAID CIRCUIT MODULE AND OF SAID CIRCUIT MODULE ARRANGEMENT	Abandoned
B. EPCOS AG	US	P2001,0017	10/466,338	17-Jan-2002		8,014,731	ELECTRIC CIRCUIT MODULE, CIRCUIT MODULE ARRANGEMENT AND USE OF SAID CIRCUIT MODULE AND OF SAID CIRCUIT MODULE ARRANGEMENT	Granted
B. EPCOS AG	WO	P2001,0017	PCT/DE02/00129	17-Jan-2002			ELECTRIC CIRCUIT MODULE, CIRCUIT MODULE ARRANGEMENT AND USE OF SAID CIRCUIT MODULE AND OF SAID CIRCUIT MODULE ARRANGEMENT	National
B. EPCOS AG	CN	P2001,0066	02804487.8	21-Jan-2002		ZL02804487.8	SUBSTRATE FOR AN ELECTRIC COMPONENT AND METHOD FOR THE PRODUCTION THEREOF	Granted
B. EPCOS AG	DE	P2001,0066	10104574.3	1-Feb-2001			SUBSTRATE FOR AN ELECTRIC COMPONENT AND METHOD FOR THE PRODUCTION THEREOF	Abandoned
B. EPCOS AG	EP	P2001,0066	02701213.7	21-Jan-2002			SUBSTRATE FOR AN ELECTRIC COMPONENT AND METHOD FOR THE PRODUCTION THEREOF	ExamPub
B. EPCOS AG	JP	P2001,0066	2002-561281	21-Jan-2002		4727904	SUBSTRATE FOR AN ELECTRIC COMPONENT AND METHOD FOR THE PRODUCTION THEREOF	Granted
B. EPCOS AG	US	P2001,0066	10/470,117	21-Jan-2002		6,909,183	SUBSTRATE FOR AN ELECTRIC COMPONENT AND METHOD FOR THE PRODUCTION THEREOF	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Count ¹	Family Casenumber	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	WO	P2001,0066	PCT/DE02/00180	21-Jan-2002			SUBSTRATE FOR AN ELECTRIC COMPONENT AND METHOD FOR THE PRODUCTION THEREOF	National
B. EPCOS AG	DE	P2001,0187	10111959.3	13-Mar-2001		10111959	TRANSDUCER STRUCTURE THAT OPERATES WITH ACOUSTIC WAVES	Granted
B. EPCOS AG	EP	P2001,0187	02721986.4	1-Mar-2002			TRANSDUCER STRUCTURE THAT OPERATES WITH ACOUSTIC WAVES	Abandoned
B. EPCOS AG	JP	P2001,0187	2002-572725	1-Mar-2002		4017984	TRANSDUCER STRUCTURE THAT OPERATES WITH ACOUSTIC WAVES	Granted
B. EPCOS AG	US	P2001,0187	10/471,987	1-Mar-2002		7,042,132	TRANSDUCER STRUCTURE THAT OPERATES WITH ACOUSTIC WAVES	Granted
B. EPCOS AG	WO	P2001,0187	PCT/DE02/00755	1-Mar-2002			TRANSDUCER STRUCTURE THAT OPERATES WITH ACOUSTIC WAVES	National
B. EPCOS AG	BR	P2001,0314	P10209256-5	10-Apr-2002		P10209256	TRANSVERSAL FILTER COMPRISING AN IMPROVED NOTCH CHARACTERISTIC CURVE	Granted
B. EPCOS AG	CN	P2001,0314	02809182.5	10-Apr-2002		ZL02809182.5	TRANSVERSAL FILTER COMPRISING AN IMPROVED NOTCH CHARACTERISTIC CURVE	Granted
B. EPCOS AG	DE	P2001,0314	10121251.8	30-Apr-2001			TRANSVERSAL FILTER COMPRISING AN IMPROVED NOTCH CHARACTERISTIC CURVE	Abandoned
B. EPCOS AG	DE	P2001,0314	50211048.1	10-Apr-2002		EP1391037	TRANSVERSAL FILTER COMPRISING AN IMPROVED NOTCH CHARACTERISTIC CURVE	Granted
B. EPCOS AG	EP	P2001,0314	02766603.1	10-Apr-2002		EP1391037	TRANSVERSAL FILTER COMPRISING AN IMPROVED NOTCH CHARACTERISTIC CURVE	National
B. EPCOS AG	ES	P2001,0314	02766603.1	10-Apr-2002		EP1391037	TRANSVERSAL FILTER COMPRISING AN IMPROVED NOTCH CHARACTERISTIC CURVE	Granted
B. EPCOS AG	FR	P2001,0314	02766603.1	10-Apr-2002		EP1391037	TRANSVERSAL FILTER COMPRISING AN IMPROVED NOTCH CHARACTERISTIC CURVE	Granted
B. EPCOS AG	GB	P2001,0314	02766603.1	10-Apr-2002		EP1391037	TRANSVERSAL FILTER COMPRISING AN IMPROVED NOTCH CHARACTERISTIC CURVE	Granted
B. EPCOS AG	ID	P2001,0314	W-40200302132	10-Apr-2002		IDP0024783	TRANSVERSAL FILTER COMPRISING AN IMPROVED NOTCH CHARACTERISTIC CURVE	Granted
B. EPCOS AG	IN	P2001,0314	1168/K/OL/NP/2003	10-Apr-2002		207466	A SAW TRANSVERSAL FILTER	Abandoned
B. EPCOS AG	JP	P2001,0314	2002-586497	10-Apr-2002		3999130	TRANSVERSAL FILTER COMPRISING AN IMPROVED NOTCH CHARACTERISTIC CURVE	Granted
B. EPCOS AG	KR	P2001,0314	10-2003-7014184	10-Apr-2002		10-0859926	TRANSVERSAL FILTER COMPRISING AN IMPROVED NOTCH CHARACTERISTIC CURVE	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	RU	P2001,0314	2003134634	10-Apr-2002		2280319	TRANSVERSAL FILTER COMPRISING AN IMPROVED NOTCH CHARACTERISTIC CURVE	Granted
B. EPCOS AG	TR	P2001,0314	02766603.1	10-Apr-2002		EP1391037	TRANSVERSAL FILTER COMPRISING AN IMPROVED NOTCH CHARACTERISTIC CURVE	Abandoned
B. EPCOS AG	TW	P2001,0314	91108462	24-Apr-2002		1229978	Transversal filter with improved falling-characteristics	Granted
B. EPCOS AG	US	P2001,0314	10/476,367	10-Apr-2002		7,061,346	TRANSVERSAL FILTER COMPRISING AN IMPROVED NOTCH CHARACTERISTIC CURVE	Granted
B. EPCOS AG	WO	P2001,0314	PCT/DE02/01322	10-Apr-2002			TRANSVERSAL FILTER COMPRISING AN IMPROVED NOTCH CHARACTERISTIC CURVE	National
B. EPCOS AG	DE	P2001,0459	50211054.6	21-May-2002		EP1405410	FREQUENCY-TUNABLE RESONATOR	Abandoned
B. EPCOS AG	DE	P2001,0459	10132181.3	3-Jul-2001			FREQUENCY-TUNABLE RESONATOR	Abandoned
B. EPCOS AG	EP	P2001,0459	02729900.7	21-May-2002		EP1405410	FREQUENCY-TUNABLE RESONATOR	National
B. EPCOS AG	FR	P2001,0459	02729900.7	21-May-2002		EP1405410	FREQUENCY-TUNABLE RESONATOR	Abandoned
B. EPCOS AG	JP	P2001,0459	2003-511419	21-May-2002			FREQUENCY-TUNABLE RESONATOR	Abandoned
B. EPCOS AG	US	P2001,0459	10/482,885	21-May-2002		7,098,573	FREQUENCY-TUNABLE RESONATOR	Granted
B. EPCOS AG	WO	P2001,0459	PCT/DE02/01836	21-May-2002			FREQUENCY-TUNABLE RESONATOR	National
B. EPCOS AG	DE	P2001,0516	10134987.4	18-Jul-2001		10134987	REACTANCE FILTER HAVING AN IMPROVED EDGE STEEPNESS	Abandoned
B. EPCOS AG	DE	P2001,0516	50214525.0	16-May-2002		EP1407546	REACTANCE FILTER HAVING AN IMPROVED EDGE STEEPNESS	Granted
B. EPCOS AG	EP	P2001,0516	02737839.7	16-May-2002		EP1407546	REACTANCE FILTER HAVING AN IMPROVED EDGE STEEPNESS	National
B. EPCOS AG	JP	P2001,0516	2003-514696	16-May-2002		4243537	REACTANCE FILTER HAVING AN IMPROVED EDGE STEEPNESS	Granted
B. EPCOS AG	US	P2001,0516	10/483,928	16-May-2002		7,126,253	REACTANCE FILTER HAVING AN IMPROVED EDGE STEEPNESS	Granted
B. EPCOS AG	WO	P2001,0516	PCT/DE02/01761	16-May-2002			REACTANCE FILTER HAVING AN IMPROVED EDGE STEEPNESS	National
B. EPCOS AG	DE	P2001,0530	10135871.7	24-Jul-2001		10135871	CONVERTER FOR SURFACE WAVES WITH IMPROVED SUPPRESSION OF INTERFERING EXCITATION	Granted
B. EPCOS AG	EP	P2001,0530	02729899.1	21-May-2002			CONVERTER FOR SURFACE WAVES WITH IMPROVED SUPPRESSION OF INTERFERING EXCITATION	ExamPub

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	JP	P2001,0530	2003-518041	21-May-2002		4284175	CONVERTER FOR SURFACE WAVES WITH IMPROVED SUPPRESSION OF INTERFERING EXCITATION	Granted
B. EPCOS AG	US	P2001,0530	10/484,708	21-May-2002		7,170,372	CONVERTER FOR SURFACE WAVES WITH IMPROVED SUPPRESSION OF INTERFERING EXCITATION	Granted
B. EPCOS AG	WO	P2001,0530	PCT/DE02/01835	21-May-2002			CONVERTER FOR SURFACE WAVES WITH IMPROVED SUPPRESSION OF INTERFERING EXCITATION	National
B. EPCOS AG	CN	P2001,0691	02819130.7	6-Aug-2002		ZL02819130.7	METHOD FOR ENCAPSULATING AN ELECTRICAL COMPONENT AND SURFACE WAVE COMPONENT THUS ENCAPSULATED	Granted
B. EPCOS AG	DE	P2001,0691	10147879.8	28-Sep-2001			Encapsulating electrical component e.g. SAW device including chip, by laminated film on carrier surface on which chip is mounted, enclosing in plastics compound and hardening	Abandoned
B. EPCOS AG	DE	P2001,0691	10152343.2	24-Oct-2001		10152343		Granted
B. EPCOS AG	JP	P2001,0691	2003-535326	6-Aug-2002			METHOD FOR ENCAPSULATING AN ELECTRICAL COMPONENT AND SURFACE WAVE COMPONENT THUS ENCAPSULATED	Abandoned
B. EPCOS AG	US	P2001,0691	11/485,049	6-Aug-2002		7,518,201	METHOD FOR ENCAPSULATING AN ELECTRICAL COMPONENT, AND SURFACE ACOUSTIC WAVE DEVICE ENCAPSULATED USING SAID METHOD	Abandoned
B. EPCOS AG	US	P2001,0691	10/491,056	6-Aug-2002		7,094,626	METHOD FOR ENCAPSULATING AN ELECTRICAL COMPONENT	Granted
B. EPCOS AG	WO	P2001,0691	PCT/DE02/02886	6-Aug-2002			METHOD FOR ENCAPSULATING AN ELECTRICAL COMPONENT AND SURFACE WAVE COMPONENT THUS ENCAPSULATED	National
B. EPCOS AG	DE	P2001,0693	10147877.1	28-Sep-2001			Production of a component support having a piezoelectric component by soldering a component with a piezoelectric substrate onto a component support and removing the substrate material from the surface facing away from the support	Granted
B. EPCOS AG	DE	P2001,0756	10153434.5	30-Oct-2001		10153434	MAGNETICALLY TUNABLE FILTER	Granted
B. EPCOS AG	CN	P2001,0768	02149529.7	13-Nov-2002		ZL02149529.7	Surface wave diffraction reduced interdigital transducer	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

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B. EPCOS AG	DE	P2001,0768	10155570.9	13-Nov-2001		10155570	INTERDIGITAL TRANSDUCER WITH REDUCED BENDING OF SURFACE WAVES	Granted
B. EPCOS AG	JP	P2001,0768	2002-328698	12-Nov-2002		4588970	INTERDIGITAL CONVERTER COMPENSATING DIFFRACTION OF SURFACE WAVE	Granted
B. EPCOS AG	DE	P2001,0818	10159449.6	4-Dec-2001		10159449	SWITCHABLE SURFACE ACOUSTIC WAVE FILTER	Granted
B. EPCOS AG	CN	P2001,0836	02824737.X	6-Dec-2002		ZL02824737.X	ACOUSTIC MIRROR WITH IMPROVED REFLECTION	Abandoned
B. EPCOS AG	DE	P2001,0836	10160617.6	11-Dec-2001			ACOUSTIC MIRROR WITH IMPROVED REFLECTION	Abandoned
B. EPCOS AG	JP	P2001,0836	2003-551898	6-Dec-2002			ACOUSTIC MIRROR WITH IMPROVED REFLECTION	Abandoned
B. EPCOS AG	US	P2001,0836	10/498,203	6-Dec-2002		7,230,509	ACOUSTIC MIRROR	Granted
B. EPCOS AG	WO	P2001,0836	PCT/DE2002/004498	6-Dec-2002			ACOUSTIC MIRROR WITH IMPROVED REFLECTION	National
B. EPCOS AG	CN	P2001,0884	02826401.0	11-Dec-2002		ZL02826401.0	ENCAPSULATED COMPONENT WHICH IS SMALL IN TERMS OF HEIGHT AND METHOD FOR PRODUCING THE SAME	Granted
B. EPCOS AG	DE	P2001,0884	10164494.9	28-Dec-2001		10164494	ENCAPSULATED COMPONENT WHICH IS SMALL IN TERMS OF HEIGHT AND METHOD FOR PRODUCING THE SAME	Granted
B. EPCOS AG	JP	P2001,0884	2003-559014	11-Dec-2002			ENCAPSULATED COMPONENT WHICH IS SMALL IN TERMS OF HEIGHT AND METHOD FOR PRODUCING THE SAME	Abandoned
B. EPCOS AG	US	P2001,0884	10/500,371	11-Dec-2002		6,982,380	ENCAPSULATED COMPONENT WHICH IS SMALL IN TERMS OF HEIGHT AND METHOD FOR PRODUCING THE SAME	Granted
B. EPCOS AG	WO	P2001,0884	PCT/DE2002/004535	11-Dec-2002			ENCAPSULATED COMPONENT WHICH IS SMALL IN TERMS OF HEIGHT AND METHOD FOR PRODUCING THE SAME	National
B. EPCOS AG	CN	P2001,0894	02826271.9	18-Dec-2002		ZL02826271.9	METHOD FOR THE HERMETIC ENCAPSULATION OF A COMPONENT	Granted
B. EPCOS AG	DE	P2001,0894	10164502.3	28-Dec-2001		10164502	METHOD FOR THE HERMETIC ENCAPSULATION OF A COMPONENT	Granted
B. EPCOS AG	JP	P2001,0894	2003-559016	18-Dec-2002		4383882	METHOD FOR THE HERMETIC ENCAPSULATION OF A COMPONENT	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Count ¹	Family Casenumber	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	US	P2001,0894	10/500,279	18-Dec-2002		7,259,041	METHOD FOR THE HERMETIC ENCAPSULATION OF A COMPONENT	Granted
B. EPCOS AG	WO	P2001,0894	PCT/DE2002/0046 37	18-Dec-2002			METHOD FOR THE HERMETIC ENCAPSULATION OF A COMPONENT	National
B. EPCOS AG	DE	P2002,0035	10201435.3	16-Jan-2002	10201435	10201435	Circuit array with an antenna input	Granted
B. EPCOS AG	JP	P2002,0035	2003-533455	27-Sep-2002		4008881	Circuit array with an antenna input	Granted
B. EPCOS AG	TW	P2002,0035	91121747	23-Sep-2002			Circuit array with an antenna input	Abandoned
B. EPCOS AG	US	P2002,0035	10/490,914	27-Sep-2002	2004-0264095	7,492,565	BANDPASS FILTER ELECTROSTATIC DISCHARGE PROTECTION DEVICE	Granted
B. EPCOS AG	WO	P2002,0035	PCT/DE02/03662	27-Sep-2002	WO03/030382		Circuit array with an antenna input	National
B. EPCOS AG	DE	P2002,0036	10201433.7	16-Jan-2002	10201433	10201433	CIRCUIT, SWITCHING MODULE COMPRISING THE SAME, AND USE OF SAID SWITCHING MODULE	Granted
B. EPCOS AG	JP	P2002,0036	2003-533456	27-Sep-2002			CIRCUIT, SWITCHING MODULE COMPRISING THE SAME, AND USE OF SAID SWITCHING MODULE	Abandoned
B. EPCOS AG	TW	P2002,0036	91121749	23-Sep-2002			CIRCUIT, SWITCHING MODULE COMPRISING THE SAME, AND USE OF SAID SWITCHING MODULE	Abandoned
B. EPCOS AG	US	P2002,0036	10/490,930	27-Sep-2002	2005-0059358	7,343,137	ELECTROSTATIC DISCHARGE PROTECTION DEVICE WITH PI CONFIGURATION	Granted
B. EPCOS AG	WO	P2002,0036	PCT/DE02/03664	27-Sep-2002	WO03/030383		CIRCUIT, SWITCHING MODULE COMPRISING THE SAME, AND USE OF SAID SWITCHING MODULE	National
B. EPCOS AG	DE	P2002,0038	10201436.1	16-Jan-2002	10201436	10201436	Circuit array with an antenna input and use of said circuit array	Granted
B. EPCOS AG	TW	P2002,0038	91121752	23-Sep-2002			Circuit array with an antenna input and use of said circuit array	Abandoned
B. EPCOS AG	WO	P2002,0038	PCT/DE02/03666	27-Sep-2002	WO03/030385		Circuit array with an antenna input and use of said circuit array	Abandoned
B. EPCOS AG	DE	P2002,0123	10206369.9	15-Feb-2002		10206369	ELECTRODE STRUCTURE COMPRISING AN IMPROVED OUTPUT COMPATIBILITY AND METHOD FOR PRODUCING SAID STRUCTURE	Granted
B. EPCOS AG	JP	P2002,0123	2003-568774	7-Feb-2003		4314118	ELECTRODE STRUCTURE COMPRISING AN IMPROVED OUTPUT COMPATIBILITY AND METHOD FOR PRODUCING SAID STRUCTURE	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	US	P2002,0123	10/504,625	7-Feb-2003		7,345,409	ELECTRODE STRUCTURE FOR ELECTRO-ACOUSTIC COMPONENT AND METHOD FOR PRODUCING SAID STRUCTURE	Granted
B. EPCOS AG	WO	P2002,0123	PCT/DE2003/000363	7-Feb-2003			ELECTRODE STRUCTURE COMPRISING AN IMPROVED OUTPUT COMPATIBILITY AND METHOD FOR PRODUCING SAID STRUCTURE	National
B. EPCOS AG	DE	P2002,0124	10206376.1	15-Feb-2002		10206376	RESONATOR FILTER WITH IMPROVED ADJACENT CHANNEL SELECTIVITY	Granted
B. EPCOS AG	US	P2002,0124	10/366,873	14-Feb-2003		6,894,588	RESONATOR FILTER WITH IMPROVED ADJACENT CHANNEL SELECTIVITY	Granted
B. EPCOS AG	DE	P2002,0252	10216842.3	16-Apr-2002		10216842	Substrate for large bandwidth SAW component, comprises single crystal layer in which substrate surface is orientated at given angle about X-axis	Granted
B. EPCOS AG	DE	P2002,0274	10217387.7	18-Apr-2002			ELECTRIC FOUR-WIRE NETWORK WITH A TRANSFORMATION LINE	ExamPub
B. EPCOS AG	EP	P2002,0274	03746217.3	21-Mar-2003		EP1495513	ELECTRIC FOUR-WIRE NETWORK WITH A TRANSFORMATION LINE	National
B. EPCOS AG	FR	P2002,0274	03746217.3	21-Mar-2003		EP1495513	ELECTRIC FOUR-WIRE NETWORK WITH A TRANSFORMATION LINE	Granted
B. EPCOS AG	GB	P2002,0274	03746217.3	21-Mar-2003		EP1495513	ELECTRIC FOUR-WIRE NETWORK WITH A TRANSFORMATION LINE	Granted
B. EPCOS AG	JP	P2002,0274	2003-585223	21-Mar-2003		4058004	ELECTRIC FOUR-WIRE NETWORK WITH A TRANSFORMATION LINE	Granted
B. EPCOS AG	KR	P2002,0274	10-2004-7016661	21-Mar-2003		10-1025233	ELECTRIC FOUR-WIRE NETWORK WITH A TRANSFORMATION LINE	Granted
B. EPCOS AG	WO	P2002,0274	PCT/DE2003/000950	21-Mar-2003			ELECTRIC FOUR-WIRE NETWORK WITH A TRANSFORMATION LINE	National
B. EPCOS AG	DE	P2002,0464	10225202.5	6-Jun-2002			COMPONENT WORKING WITH ACOUSTIC WAVES AND HAVING A MATCHING NETWORK	ExamPub
B. EPCOS AG	DE	P2002,0464	20221966.6	6-Jun-2002			COMPONENT WORKING WITH ACOUSTIC WAVES AND HAVING A MATCHING NETWORK	Expired
B. EPCOS AG	US	P2002,0464	10/456,105	6-Jun-2003		6,927,649	COMPONENT WORKING WITH ACOUSTIC WAVES AND HAVING A MATCHING NETWORK	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	CN	P2002,0539	03814933.8	7-May-2003		ZL03814933.8	ELECTRONIC COMPONENT COMPRISING A MULTILAYER SUBSTRATE AND CORRESPONDING METHOD OF PRODUCTION	Granted
B. EPCOS AG	DE	P2002,0539	10228528.1	25-Jun-2002			An electronic component with a multi-layer substrate and manufacturing method	ExamPub
B. EPCOS AG	JP	P2002,0539	2004-514540	7-May-2003		4778228	ELECTRONIC COMPONENT COMPRISING A MULTILAYER SUBSTRATE AND CORRESPONDING METHOD OF PRODUCTION	Granted
B. EPCOS AG	KR	P2002,0539	10-2004-7021118	7-May-2003		10-0954030	ELECTRONIC COMPONENT COMPRISING A MULTILAYER SUBSTRATE AND CORRESPONDING METHOD OF PRODUCTION	Granted
B. EPCOS AG	US	P2002,0539	10/521,253	7-May-2003		7,795,728	ELECTRONIC COMPONENT	Granted
B. EPCOS AG	WO	P2002,0539	PCT/DE2003/001465	7-May-2003			ELECTRONIC COMPONENT COMPRISING A MULTILAYER SUBSTRATE AND CORRESPONDING METHOD OF PRODUCTION	National
B. EPCOS AG	DE	P2002,0640	10234980.0	31-Jul-2002			Resonator used as a thin film bulk acoustic wave resonator in mobile communication devices contains a piezoelectric layer and a puncture-resistant layer arranged between a lower electrode and an upper electrode	ExamPub
B. EPCOS AG	DE	P2002,0655	10236003.0	6-Aug-2002		10236003	Acoustic wave component e.g. for use as filter for GHz frequencies, with metallic electrodes embedded in surface of component substrate	Granted
B. EPCOS AG	DE	P2002,0672	10237507.0	16-Aug-2002		10237507	Manufacture of component operating using acoustic waves e.g. piezoelectric resonator or electroacoustic transducer	Granted
B. EPCOS AG	DE	P2002,0686	10262409.7	22-Aug-2002			ENCAPSULATED ELECTRONIC COMPONENT AND PRODUCTION METHOD	Exam
B. EPCOS AG	DE	P2002,0686	10238523.8	22-Aug-2002		10238523	ENCAPSULATED ELECTRONIC COMPONENT AND PRODUCTION METHOD	Granted
B. EPCOS AG	JP	P2002,0686	2004-529975	23-Jun-2003		4813795	ENCAPSULATED ELECTRONIC COMPONENT AND PRODUCTION METHOD	Granted
B. EPCOS AG	US	P2002,0686	10/523,875	23-Jun-2003		7,388,281	ENCAPSULATED ELECTRONIC COMPONENT AND PRODUCTION METHOD	Granted
B. EPCOS AG	WO	P2002,0686	PCT/EP2003/006596	23-Jun-2003			ENCAPSULATED ELECTRONIC COMPONENT AND PRODUCTION METHOD	National
B. EPCOS AG	DE	P2002,0698	10239317.6	27-Aug-2002			RESONATOR AND COMPONENT WITH HERMETIC ENCAPSULATION	Abandoned

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	JP	P2002,0698	2004-531775	23-Jun-2003			RESONATOR AND COMPONENT WITH HERMETIC ENCAPSULATION	Abandoned
B. EPCOS AG	US	P2002,0698	10/523,872	23-Jun-2003		7,385,467	RESONATOR AND COMPONENT WITH HERMETIC ENCAPSULATION	Granted
B. EPCOS AG	WO	P2002,0698	PCT/EP2003/006597	23-Jun-2003			RESONATOR AND COMPONENT WITH HERMETIC ENCAPSULATION	National
B. EPCOS AG	DE	P2002,0828	10246098.1	2-Oct-2002			CIRCUITRY	Abandoned
B. EPCOS AG	DE	P2002,0828	50310912.6	1-Oct-2003		EP1559200	CIRCUIT ARRANGEMENT	Granted
B. EPCOS AG	EP	P2002,0828	03773480.3	1-Oct-2003		EP1559200	CIRCUIT ARRANGEMENT	National
B. EPCOS AG	JP	P2002,0828	2004-540532	1-Oct-2003			CIRCUIT ARRANGEMENT FOR LIMITING AN OVERVOLTAGE	Abandoned
B. EPCOS AG	TW	P2002,0828	92127000	30-Sep-2003			CIRCUIT ARRANGEMENT	Abandoned
B. EPCOS AG	US	P2002,0828	10/526,278	1-Oct-2003		8,116,046	CIRCUIT ARRANGEMENT THAT INCLUDES A DEVICE TO PROTECT AGAINST ELECTROSTATIC DISCHARGE	Granted
B. EPCOS AG	WO	P2002,0828	PCT/DE2003/003274	1-Oct-2003			CIRCUIT ARRANGEMENT FOR LIMITING AN OVERVOLTAGE	National
B. EPCOS AG	DE	P2002,0843	10246791.9	8-Oct-2002			Bulk acoustic wave filter e.g. for band-pass HF filters, has layered structure with capacitance connected in parallel or in series with resonator	ExamPub
B. EPCOS AG	JP	P2002,0843	2004-542360	18-Sep-2003			BULK ACOUSTIC WAVE RESONATOR AND CIRCUIT COMPRISING SAME	Abandoned
B. EPCOS AG	US	P2002,0843	10/530,507	18-Sep-2003		7,616,079	BULK ACOUSTIC WAVE RESONATOR AND CIRCUIT COMPRISING SAME	Granted
B. EPCOS AG	WO	P2002,0843	PCT/EP2003/010431	18-Sep-2003			BULK ACOUSTIC WAVE RESONATOR AND CIRCUIT COMPRISING SAME	National
B. EPCOS AG	DE	P2002,0844	10246784.6	8-Oct-2002		10246784	Component used as a SAW component, comprises a chip connected to a supporting substrate by solder connections, and electrically conducting structures arranged on the chip and having outer contacts and feed lines	Granted
B. EPCOS AG	DE	P2002,0957	10253163.3	14-Nov-2002		10253163	Component used in microelectronics comprises a sandwich structure, a rear-side metallization extending over the rear side of the chip up to the boundary surfaces of the sandwich structure, lower side contacts, and through-contacts	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	JP	P2002,0957	2004-550698	15-Oct-2003		4636882	HERMETICALLY ENCAPSULATED COMPONENT AND WAFERSCALE METHOD FOR THE PRODUCTION THEREOF	Granted
B. EPCOS AG	US	P2002,0957	10/527,932	15-Oct-2003		7,102,224	ENCAPSULATED COMPONENT AND METHOD FOR THE PRODUCTION THEREOF	Granted
B. EPCOS AG	WO	P2002,0957	PCT/EP2003/011448	15-Oct-2003			HERMETICALLY ENCAPSULATED COMPONENT AND WAFERSCALE METHOD FOR THE PRODUCTION THEREOF	National
B. EPCOS AG	DE	P2002,1024	10256937.1	5-Dec-2002			Thin film bulk acoustic wave resonator component, e.g. a high frequency band pass filter in mobile communications equipment, has additional compensation layers to ensure a phase difference of 180 degrees at an output gate	ExamPub
B. EPCOS AG	US	P2002,1024	10/728,462	5-Dec-2003		6,917,261	COMPONENT OPERATING WITH BULK ACOUSTIC WAVES, AND HAVING ASYMMETRIC/SYMMETRICAL CIRCUITRY	Granted
B. EPCOS AG	DE	P2002,1065	10258422.2	13-Dec-2002			Bulk acoustic wave device for filter in mobile telecommunications terminal, has resonators arranged on acoustic reflector and electrically connected so that coupling capacitance does not shunt them	Abandoned
B. EPCOS AG	US	P2002,1065	10/734,067	11-Dec-2003		6,985,052	COMPONENT OPERATING WITH BULK ACOUSTIC WAVES, AND HAVING COUPLED RESONATORS	Granted
B. EPCOS AG	DE	P2003,0001	10300958.2	13-Jan-2003			Module encapsulation	Abandoned
B. EPCOS AG	FR	P2003,0001	400004	2-Jan-2004		FR2849956	MODULE WITH ENCAPSULATION	Granted
B. EPCOS AG	JP	P2003,0001	2006-500549	12-Jan-2004		4603527	Modular construction component with encapsulation	Granted
B. EPCOS AG	US	P2003,0001	10/541,911	12-Jan-2004			Modular construction component with encapsulation	Abandoned
B. EPCOS AG	WO	P2003,0001	PCT/EP2004/000150	12-Jan-2004			Modular construction component with encapsulation	National
B. EPCOS AG	WO	P2003,0001	PCT/EP2003/014346	16-Dec-2003			MODULE WITH ENCAPSULATION	Abandoned
B. EPCOS AG	DE	P2003,0002	10300955.8	13-Jan-2003		10300955	Radar transceiver for microwave and millimeter wave applications	Granted
B. EPCOS AG	FR	P2003,0002	400042	6-Jan-2004		FR2849927	RADAR-TRANSCIEVER FOR MICROWAVE AND MILLIMETRE APPLICATIONS	Granted
B. EPCOS AG	JP	P2003,0002	2004-565983	16-Dec-2003			RADAR-TRANSCIEVER FOR MICROWAVE AND MILLIMETRE APPLICATIONS	Abandoned

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	US	P2003,0002	10/541,994	16-Dec-2003			RADAR-TRANSCIEVER FOR MICROWAVE AND MILLIMETRE APPLICATIONS	Abandoned
B. EPCOS AG	WO	P2003,0002	PCT/EP2003/014347	16-Dec-2003			RADAR-TRANSCIEVER FOR MICROWAVE AND MILLIMETRE APPLICATIONS	National
B. EPCOS AG	DE	P2003,0004	10300956,6	13-Jan-2003		10300956	Component with high frequency links in a substrate	Granted
B. EPCOS AG	FR	P2003,0004	0400005	2-Jan-2004		0400005	COMPOSANT AYANT DES CONNEXIONS HAUTE FREQUENCE DANS UN SUBSTRAT	Granted
B. EPCOS AG	JP	P2003,0004	2004-565984	16-Dec-2003			COMPONENT WITH ULTRA-HIGH FREQUENCY CONNECTIONS IN A SUBSTRATE	Abandoned
B. EPCOS AG	US	P2003,0004	10/541,912	16-Dec-2003		7,279,642	COMPONENT WITH ULTRA-HIGH FREQUENCY CONNECTIONS IN A SUBSTRATE	Granted
B. EPCOS AG	WO	P2003,0004	PCT/EP2003/014348	16-Dec-2003			COMPONENT WITH ULTRA-HIGH FREQUENCY CONNECTIONS IN A SUBSTRATE	National
B. EPCOS AG	DE	P2003,0015	10301261,3	15-Jan-2003			Sound wave activated component such as bulk acoustic wave resonator for mobile telecommunication filter, has piezoelectric and high and low acoustic impedance layers	ExamPub
B. EPCOS AG	US	P2003,0015	10/757,841	15-Jan-2004		6,998,940	COMPONENT OPERATING WITH BULK ACOUSTIC WAVES AND A METHOD FOR PRODUCING THE COMPONENT	Granted
B. EPCOS AG	DE	P2003,0023	10301934,0	20-Jan-2003			Electrical component used as a BAW or SAW arrangement comprises a substrate with component structures on which are arranged solder metallizations electrically connected to the component structures	ExamPub
B. EPCOS AG	JP	P2003,0023	2004-566780	16-Dec-2003		4571866	ELECTRICAL COMPONENT HAVING A REDUCED SUBSTRATE AREA	Granted
B. EPCOS AG	KR	P2003,0023	10-2005-7013405	16-Dec-2003		10-1053017	ELECTRICAL COMPONENT HAVING A REDUCED SUBSTRATE AREA	Granted
B. EPCOS AG	US	P2003,0023	10/542,841	16-Dec-2003		8,022,556	ELECTRICAL COMPONENT HAVING A REDUCED SUBSTRATE AREA	Granted
B. EPCOS AG	WO	P2003,0023	PCT/EP2003/014349	16-Dec-2003			ELECTRICAL COMPONENT HAVING A REDUCED SUBSTRATE AREA	National
B. EPCOS AG	DE	P2003,0034	10302633,9	23-Jan-2003		10302633	SAW device with improved temperature response	Granted
B. EPCOS AG	JP	P2003,0034	2004-566781	16-Dec-2003			SAW COMPONENT HAVING AN IMPROVED TEMPERATURE COEFFICIENT	Abandoned

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Count ¹	Family Case number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	KR	P2003,0034	10-2005-7013601	16-Dec-2003		10-1069444	SAW COMPONENT HAVING AN IMPROVED TEMPERATURE COEFFICIENT	Granted
B. EPCOS AG	US	P2003,0034	10/542,970	16-Dec-2003		7,459,991	SAW COMPONENT HAVING AN IMPROVED TEMPERATURE COEFFICIENT	Granted
B. EPCOS AG	WO	P2003,0034	PCT/EP2003/014350	16-Dec-2003			SAW COMPONENT HAVING AN IMPROVED TEMPERATURE COEFFICIENT	National
B. EPCOS AG	DE	P2003,0048	10304470.1	4-Feb-2003		10304470	The surface acoustic wave -working electronic component	Granted
B. EPCOS AG	JP	P2003,0048	2004-567759	16-Dec-2003		4393387	ELECTRONIC COMPONENT OPERATED WITH SURFACE ACOUSTIC WAVES	Granted
B. EPCOS AG	KR	P2003,0048	10-2005-7014271	16-Dec-2003		10-1119619	ELECTRONIC COMPONENT OPERATED WITH SURFACE ACOUSTIC WAVES	Granted
B. EPCOS AG	US	P2003,0048	10/544,136	16-Dec-2003		7,969,239	ELECTRONIC COMPONENT OPERATED WITH SURFACE ACOUSTIC WAVES	Granted
B. EPCOS AG	WO	P2003,0048	PCT/EP2003/014351	16-Dec-2003			ELECTRONIC COMPONENT OPERATED WITH SURFACE ACOUSTIC WAVES	National
B. EPCOS AG	DE	P2003,0125	10309250.1	3-Mar-2003		10309250	Electro-acoustic transducer for operating with surface waves component	Granted
B. EPCOS AG	JP	P2003,0125	2004-569022	16-Dec-2003			ELECTROACOUSTIC TRANSDUCER FOR A SURFACE WAVE OPERATING COMPONENT	Abandoned
B. EPCOS AG	US	P2003,0125	10/547,852	16-Dec-2003		7,449,812	ELECTROACOUSTIC TRANSDUCER FOR A SURFACE WAVE OPERATING COMPONENT	Granted
B. EPCOS AG	WO	P2003,0125	PCT/EP2003/014353	16-Dec-2003			ELECTROACOUSTIC TRANSDUCER FOR A SURFACE WAVE OPERATING COMPONENT	National
B. EPCOS AG	DE	P2003,0188	10314153.7	28-Mar-2003			Surface acoustic wave device for wideband signal transmission e.g. bandpass filter for mobile radio device or data transmission system, has interdigital transducers with acoustic waves in edge tracks and center track having opposing phases	ExamPub
B. EPCOS AG	US	P2003,0188	10/812,163	29-Mar-2004		6,992,547	SURFACE ACOUSTIC WAVE ARRANGEMENT FOR BROADBAND SIGNAL TRANSMISSION	Granted
B. EPCOS AG	DE	P2003,0217	10316719.6	11-Apr-2003			Front-end circuit for wireless transmission systems	ExamPub
B. EPCOS AG	JP	P2003,0217	2006-504407	2-Feb-2004		4537386	FRONT-END CIRCUIT FOR WIRELESS TRANSMISSION SYSTEMS	Granted
B. EPCOS AG	KR	P2003,0217	10-2005-7019346	2-Feb-2004		10-1122808	FRONT-END CIRCUIT FOR WIRELESS TRANSMISSION SYSTEMS	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	US	P2003,0217	10/552,926	2-Feb-2004		7,349,717	FRONT-END CIRCUIT FOR WIRELESS TRANSMISSION SYSTEMS	Granted
B. EPCOS AG	WO	P2003,0217	PCT/EP2004/000933	2-Feb-2004			FRONT-END CIRCUIT FOR WIRELESS TRANSMISSION SYSTEMS	National
B. EPCOS AG	DE	P2003,0219	10316716.1	11-Apr-2003			COMPONENT WITH A PIEZOELECTRIC FUNCTIONAL LAYER	Abandoned
B. EPCOS AG	JP	P2003,0219	2006-504414	6-Feb-2004		4457106	COMPONENT WITH A PIEZOELECTRIC FUNCTIONAL LAYER	Granted
B. EPCOS AG	US	P2003,0219	10/552,927	6-Feb-2004		7,489,067	COMPONENT WITH A PIEZOELECTRIC FUNCTIONAL LAYER	Granted
B. EPCOS AG	WO	P2003,0219	PCT/EP2004/001122	6-Feb-2004			COMPONENT WITH A PIEZOELECTRIC FUNCTIONAL LAYER	National
B. EPCOS AG	DE	P2003,0242	10317969.0	17-Apr-2003		10317969	Duplexer for separating transmitter and receiver signals for a defined frequency band has an antenna port, a receiver output and a transmitter input	Abandoned
B. EPCOS AG	US	P2003,0242	10/826,089	16-Apr-2004		7,102,460	DUPLEXER WITH EXTENDED FUNCTIONALITY	Granted
B. EPCOS AG	DE	P2003,0257	10319554.8	30-Apr-2003			Component working with acoustic volume waves has an electrode arrangement separated by an intermediate piezoelectric layer with electrically isolated partial electrodes forming partial resonators that can be acoustically coupled	ExamPub
B. EPCOS AG	US	P2003,0257	10/837,211	30-Apr-2004		7,057,478	COMPONENT FUNCTIONING WITH BULK ACOUSTIC WAVES HAVING COUPLED RESONATORS	Granted
B. EPCOS AG	DE	P2003,0284	10320702.3	8-May-2003			Method for forming component working with surface acoustic waves (SAW), by providing metal structures electrically coupled links, each with connecting face on substrate surface	ExamPub
B. EPCOS AG	DE	P2003,0289	10321247.7	12-May-2003	10321247	10321247	LOW-LOSS TRANSMITTER MODULE	Granted
B. EPCOS AG	JP	P2003,0289	2006-505173	16-Apr-2004			LOW-LOSS TRANSMITTER MODULE	Abandoned
B. EPCOS AG	US	P2003,0289	11/272,596	14-Nov-2005	2006-0121874	7,454,178	LOW-LOSS TRANSMITTER MODULE	Granted
B. EPCOS AG	WO	P2003,0289	PCT/EP2004/004078	16-Apr-2004	WO2004/100387		LOW-LOSS TRANSMITTER MODULE	National
B. EPCOS AG	DE	P2003,0307	10322136.0	16-May-2003		10322136	Front-end module with low insertion loss	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	WO	P2003,0307	PCT/DE2004/000887	28-Apr-2004			FRONT-END MODULE WITH LOW INSERTION ATTENUATION	Abandoned
B. EPCOS AG	DE	P2003,0315	10322135.2	16-May-2003		10322135	Component used in microelectronics, especially as a flip-chip contact comprises a solder connection formed between a first partial body having a first flat metallization and a second partial body having a second flat metallization	Granted
B. EPCOS AG	DE	P2003,0316	10325798.5	6-Jun-2003		10325798	SAW FILTER WITH IMPROVED SELECTION OR INSULATION	Granted
B. EPCOS AG	JP	P2003,0316	2006-508151	16-Apr-2004		4567672	SAW FILTER WITH IMPROVED SELECTION OR INSULATION	Granted
B. EPCOS AG	KR	P2003,0316	10-2005-7023402	16-Apr-2004		10-1075674	SAW FILTER WITH IMPROVED SELECTION OR INSULATION	Granted
B. EPCOS AG	US	P2003,0316	10/559,508	16-Apr-2004		7,477,117	SAW FILTER WITH IMPROVED SELECTION OR INSULATION	Granted
B. EPCOS AG	WO	P2003,0316	PCT/EP2004/004082	16-Apr-2004			SAW FILTER WITH IMPROVED SELECTION OR INSULATION	National
B. EPCOS AG	DE	P2003,0366	10325281.9	4-Jun-2003			ELECTROACOUSTIC COMPONENT AND METHOD FOR THE PRODUCTION THEREOF	ExamPub
B. EPCOS AG	JP	P2003,0366	2006-508154	20-Apr-2004		4589306	ELECTROACOUSTIC COMPONENT AND METHOD FOR THE PRODUCTION THEREOF	Granted
B. EPCOS AG	US	P2003,0366	11/294,077	20-Apr-2004		7,262,676	ELECTROACOUSTIC COMPONENT AND METHOD FOR THE PRODUCTION THEREOF	Granted
B. EPCOS AG	WO	P2003,0366	PCT/EP2004/004177	20-Apr-2004			ELECTROACOUSTIC COMPONENT AND METHOD FOR THE PRODUCTION THEREOF	National
B. EPCOS AG	DE	P2003,0413	10329866.5	2-Jul-2003		10329866	Surface acoustic wave component substrate has a composite structure with a tensioning layer of different thermal expansion behavior sandwiched between piezoelectric and compensation layers	Granted
B. EPCOS AG	DE	P2003,0432	10331323.0	10-Jul-2003		10331323	ACOUSTIC WAVE TRANSDUCER WITH TRANSVERSE MODE SUPPRESSION	Granted
B. EPCOS AG	JP	P2003,0432	2006-518004	16-Jun-2004		464910	ACOUSTIC WAVE TRANSDUCER WITH TRANSVERSE MODE SUPPRESSION	Granted
B. EPCOS AG	KR	P2003,0432	10-2006-7000492	16-Jun-2004			ACOUSTIC WAVE TRANSDUCER WITH TRANSVERSE MODE SUPPRESSION	Abandoned
B. EPCOS AG	US	P2003,0432	10/563,890	16-Jun-2004		7,538,637	ACOUSTIC WAVE TRANSDUCER WITH TRANSVERSE MODE SUPPRESSION	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	WO	P2003,0432	PCT/EP2004/006499	16-Jun-2004			ACOUSTIC WAVE TRANSDUCER WITH TRANSVERSE MODE SUPPRESSION	National
B. EPCOS AG	DE	P2003,0492	10335331.3	1-Aug-2003			Electrical component with overlapping electrodes especially for a thin film bulk acoustic wave resonator, has overlapping surfaces that are invariable on relative displacement	Abandoned
B. EPCOS AG	US	P2003,0492	10/900,515	28-Jul-2004		7,187,109	ELECTRICAL COMPONENT HAVING OVERLAPPING ELECTRODES, AND METHOD FOR THE MANUFACTURE OF SAME	Granted
B. EPCOS AG	DE	P2003,0574	10340438.4	2-Sep-2003		10340438	TRANSMITTING MODULE WITH IMPROVED HEAT DISSIPATION	Granted
B. EPCOS AG	JP	P2003,0574	2006-525658	12-Aug-2004		4404903	TRANSMITTING MODULE WITH IMPROVED HEAT DISSIPATION	Granted
B. EPCOS AG	US	P2003,0574	10/570,189	12-Aug-2004			Transmitter module comprising alternating metallization and insulating layers and having a cutout defined therein	Abandoned
B. EPCOS AG	WO	P2003,0574	PCT/EP2004/009065	12-Aug-2004			TRANSMITTING MODULE WITH IMPROVED HEAT DISSIPATION	National
B. EPCOS AG	DE	P2003,0640	10345239.7	29-Sep-2003		10345239	SURFACE ACOUSTIC WAVE TRANSDUCER	Granted
B. EPCOS AG	JP	P2003,0640	2006-529962	20-Aug-2004		4696068	SURFACE ACOUSTIC WAVE TRANSDUCER	Granted
B. EPCOS AG	US	P2003,0640	10/568,049	20-Aug-2004		7,489,213	SURFACE ACOUSTIC WAVE TRANSDUCER	Granted
B. EPCOS AG	WO	P2003,0640	PCT/EP2004/009371	20-Aug-2004			SURFACE ACOUSTIC WAVE TRANSDUCER	National
B. EPCOS AG	DE	P2003,0698	10347108.1	10-Oct-2003			Electro-acoustic component for thin layer resonator, electro-acoustic transducers, working with surface acoustic waves (SAW) and microelectro-mechanical switches	ExamPub
B. EPCOS AG	DE	P2003,0720	10348722.0	16-Oct-2003		10348722	ELECTRICAL ADAPTATION NETWORK COMPRISING A TRANSFORMATION LINE	Granted
B. EPCOS AG	JP	P2003,0720	2006-534624	17-Sep-2004		4426584	ELECTRICAL ADAPTATION NETWORK COMPRISING A TRANSFORMATION LINE	Granted
B. EPCOS AG	US	P2003,0720	10/575,795	17-Sep-2004		7,459,987	ELECTRICAL ADAPTATION NETWORK WITH A TRANSFORMATION LINE	Granted
B. EPCOS AG	WO	P2003,0720	PCT/EP2004/010482	17-Sep-2004			ELECTRICAL ADAPTATION NETWORK COMPRISING A TRANSFORMATION LINE	National

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	DE	P2003,0764	10351429.5	4-Nov-2003		10351429	SAW COMPONENT COMPRISING AN ADHESIVE AND USE THEREOF	Granted
B. EPCOS AG	JP	P2003,0764	2006-537127	18-Oct-2004		4705580	SAW COMPONENT COMPRISING AN ADHESIVE AND USE THEREOF	Granted
B. EPCOS AG	US	P2003,0764	11/407,708	18-Oct-2004		7,218,189	SAW COMPONENT WITH ADHESIVE LOCATION AND USE THEREOF	Granted
B. EPCOS AG	WO	P2003,0764	PCT/EP2004/011779	18-Oct-2004			SAW COMPONENT COMPRISING AN ADHESIVE AND USE THEREOF	National
B. EPCOS AG	DE	P2003,0783	10352642.0	11-Nov-2003			CIRCUIT WITH REDUCED INSERTION LOSS AND COMPONENT COMPRISING ONE SUCH CIRCUIT	ExamPub
B. EPCOS AG	EP	P2003,0783	04764478.6	25-Aug-2004			CIRCUIT WITH REDUCED INSERTION LOSS AND COMPONENT COMPRISING ONE SUCH CIRCUIT	ExamPub
B. EPCOS AG	JP	P2003,0783	2006-538665	25-Aug-2004		4335922	CIRCUIT WITH REDUCED INSERTION LOSS AND COMPONENT COMPRISING ONE SUCH CIRCUIT	Granted
B. EPCOS AG	KR	P2003,0783	10-2005-7024022	25-Aug-2004		10-1066023	CIRCUIT WITH REDUCED INSERTION LOSS AND COMPONENT COMPRISING ONE SUCH CIRCUIT	Granted
B. EPCOS AG	US	P2003,0783	10/570,364	25-Aug-2004		7,583,936	CIRCUIT WITH REDUCED INSERTION LOSS AND COMPONENT COMPRISING ONE SUCH CIRCUIT	Granted
B. EPCOS AG	WO	P2003,0783	PCT/EP2004/009502	25-Aug-2004			CIRCUIT WITH REDUCED INSERTION LOSS AND COMPONENT COMPRISING ONE SUCH CIRCUIT	National
B. EPCOS AG	DE	P2003,0784	10352640.4	11-Nov-2003		10352640	Double mode surface acoustic wave filter e.g. longitudinal coupled resonator filter, has transducer arrangement exhibiting symmetry of density with respect to transversal axis/point of symmetry with respect to center point of arrangement	Granted
B. EPCOS AG	DE	P2004,0009	102004001347.0	8-Jan-2004		102004001347	LOW-RISE DUPLEXER	Granted
B. EPCOS AG	EP	P2004,0009	04803370.8	30-Nov-2004			LOW-RISE DUPLEXER	Abandoned
B. EPCOS AG	JP	P2004,0009	2006-548135	30-Nov-2004			LOW-RISE DUPLEXER	Abandoned
B. EPCOS AG	US	P2004,0009	10/584,374	30-Nov-2004		7,636,025	LOW-RISE DUPLEXER	Granted
B. EPCOS AG	WO	P2004,0009	PCT/EP2004/013590	30-Nov-2004			LOW-RISE DUPLEXER	National

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	DE	P2004,0094	102004005129.1	2-Feb-2004			COMPONENT COMPRISING SENSITIVE STRUCTURES, AND METHOD FOR THE PRODUCTION THEREOF	ExamPub
B. EPCOS AG	JP	P2004,0094	2006-549982	14-Jan-2005		4814108	COMPONENT COMPRISING SENSITIVE STRUCTURES, AND METHOD FOR THE PRODUCTION THEREOF	Granted
B. EPCOS AG	KR	P2004,0094	10-2006-7017823	14-Jan-2005		10-1270062	COMPONENT COMPRISING SENSITIVE STRUCTURES, AND METHOD FOR THE PRODUCTION THEREOF	Granted
B. EPCOS AG	US	P2004,0094	11/491,594	14-Jan-2005		7,411,291	COMPONENT WITH SENSITIVE COMPONENT STRUCTURES AND METHOD FOR THE PRODUCTION THEREOF	Granted
B. EPCOS AG	US	P2004,0094	12/169,750	14-Jan-2005		7,998,805	COMPONENT WITH SENSITIVE COMPONENT STRUCTURES AND METHOD FOR THE PRODUCTION THEREOF	Granted
B. EPCOS AG	WO	P2004,0094	PCT/EP2005/000328	14-Jan-2005			COMPONENT COMPRISING SENSITIVE STRUCTURES, AND METHOD FOR THE PRODUCTION THEREOF	National
B. EPCOS AG	DE	P2004,0114	102004005668.4	5-Feb-2004			ELECTRICAL COMPONENT AND PRODUCTION METHOD	ExamPub
B. EPCOS AG	JP	P2004,0114	2006-551742	11-Jan-2005		4838732	ELECTRICAL COMPONENT AND PRODUCTION METHOD	Granted
B. EPCOS AG	US	P2004,0114	11/497,592	11-Jan-2005		7,868,448	ELECTRICAL COMPONENT AND PRODUCTION METHOD	Granted
B. EPCOS AG	WO	P2004,0114	PCT/EP2005/000178	11-Jan-2005			ELECTRICAL COMPONENT AND PRODUCTION METHOD	National
B. EPCOS AG	CN	P2004,0184	200580007027.2	14-Jan-2005			COMPONENT WITH ENCAPSULATION SUITABLE FOR WLP AND PRODUCTION METHOD	Abandoned
B. EPCOS AG	DE	P2004,0184	102004010703.3	4-Mar-2004		102004010703	COMPONENT WITH ENCAPSULATION SUITABLE FOR WLP AND PRODUCTION METHOD	Granted
B. EPCOS AG	JP	P2004,0184	2007-501135	14-Jan-2005			COMPONENT WITH ENCAPSULATION SUITABLE FOR WLP AND PRODUCTION METHOD	Abandoned
B. EPCOS AG	KR	P2004,0184	10-2006-7020143	14-Jan-2005			COMPONENT WITH ENCAPSULATION SUITABLE FOR WLP AND PRODUCTION METHOD	Abandoned

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	US	P2004,0184	10/591,027	14-Jan-2005			COMPONENT WITH ENCAPSULATION SUITABLE FOR WLP AND PRODUCTION METHOD	Abandoned
B. EPCOS AG	WO	P2004,0184	PCT/EP2005/000327	14-Jan-2005			COMPONENT WITH ENCAPSULATION SUITABLE FOR WLP AND PRODUCTION METHOD	National
B. EPCOS AG	DE	P2004,0324	102004020183,8	22-Apr-2004		102004020183	SURFACE WAVE RESONATOR FILTER WITH LONGITUDINALLY COUPLED CONVERTERS	Granted
B. EPCOS AG	JP	P2004,0324	2007-508755	6-Apr-2005		4861311	SURFACE WAVE RESONATOR FILTER WITH LONGITUDINALLY COUPLED CONVERTERS	Granted
B. EPCOS AG	KR	P2004,0324	10-2006-7024256	6-Apr-2005		10-1072103	SURFACE WAVE RESONATOR FILTER WITH LONGITUDINALLY COUPLED CONVERTERS	Granted
B. EPCOS AG	US	P2004,0324	11/587,014	6-Apr-2005		7,728,698	SURFACE ACOUSTIC WAVE RESONATOR FILTER WITH LONGITUDINALLY COUPLED TRANSDUCERS	Granted
B. EPCOS AG	WO	P2004,0324	PCT/EP2005/003624	6-Apr-2005			SURFACE WAVE RESONATOR FILTER WITH LONGITUDINALLY COUPLED CONVERTERS	National
B. EPCOS AG	DE	P2004,0325	102004020204,4	22-Apr-2004			ENCAPSULATED ELECTRICAL COMPONENT AND PRODUCTION METHOD	ExamPub
B. EPCOS AG	JP	P2004,0325	2007-508852	21-Apr-2005		5227019	ENCAPSULATED ELECTRICAL COMPONENT AND PRODUCTION METHOD	Granted
B. EPCOS AG	US	P2004,0325	11/578,854	21-Apr-2005		7,544,540	ENCAPSULATED ELECTRICAL COMPONENT AND PRODUCTION METHOD	Granted
B. EPCOS AG	WO	P2004,0325	PCT/EP2005/004309	21-Apr-2005			ENCAPSULATED ELECTRICAL COMPONENT AND PRODUCTION METHOD	National
B. EPCOS AG	DE	P2004,0472	102004028068,1	9-Jun-2004			OSCILLATOR	ExamPub
B. EPCOS AG	JP	P2004,0472	2007-526225	10-May-2005			OSCILLATOR	Abandoned
B. EPCOS AG	US	P2004,0472	11/628,854	10-May-2005			OSCILLATOR	Abandoned
B. EPCOS AG	WO	P2004,0472	PCT/EP2005/005055	10-May-2005			OSCILLATOR	National
B. EPCOS AG	DE	P2004,0477	102004028341,9	11-Jun-2004		102004028341	Surface acoustic wave or SAW filter of small length based on the central frequency of the filter such as for multimedia applications	Granted
B. EPCOS AG	CN	P2004,0498	200580021114,3	3-Jun-2005			PROCESS FOR PRODUCING A CERAMIC PRINTED-CIRCUIT BOARD	Abandoned

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Count ¹	Family Casenumber	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	DE	P2004,0498	102004030800.4	25-Jun-2004			PROCESS FOR PRODUCING A CERAMIC PRINTED-CIRCUIT BOARD	ExamPub
B. EPCOS AG	JP	P2004,0498	2007-517119	3-Jun-2005		5145036	PROCESS FOR PRODUCING A CERAMIC PRINTED-CIRCUIT BOARD	Granted
B. EPCOS AG	US	P2004,0498	11/630,565	3-Jun-2005		7,951,301	METHOD FOR PRODUCING A CERAMIC PRINTED-CIRCUIT BOARD	Granted
B. EPCOS AG	WO	P2004,0498	PCT/EP2005/0059 97	3-Jun-2005			PROCESS FOR PRODUCING A CERAMIC PRINTED-CIRCUIT BOARD	National
B. EPCOS AG	DE	P2004,0531	102004032621.5	5-Jul-2004		102004032621	Surface acoustic wave element for use with piezoelectric substrate, comprises electrically conducting component which form acoustic groove and finger electrodes are broadest in base at cross section	Granted
B. EPCOS AG	DE	P2004,0536	102004032928.1	7-Jul-2004		102004032928	INTEGRATED RADIO FREQUENCY MODULE	Granted
B. EPCOS AG	US	P2004,0536	11/175,961	6-Jul-2005		7,848,727	INTEGRATED RADIO FREQUENCY MODULE	Granted
B. EPCOS AG	DE	P2004,0548	102004035812.5	23-Jul-2004			RESONATOR OPERATING WITH ACOUSTIC BULK WAVES	ExamPub
B. EPCOS AG	JP	P2004,0548	2007-521810	3-Jun-2005			RESONATOR OPERATING WITH ACOUSTIC BULK WAVES	Abandoned
B. EPCOS AG	US	P2004,0548	11/658,117	3-Jun-2005		7,719,388	RESONATOR OPERATING WITH ACOUSTIC BULK WAVES	Granted
B. EPCOS AG	WO	P2004,0548	PCT/EP2005/0059 99	3-Jun-2005			RESONATOR OPERATING WITH ACOUSTIC BULK WAVES	National
B. EPCOS AG	DE	P2004,0609	102004037818.5	4-Aug-2004			FILTER ASSEMBLY COMPRISING TWO BULK WAVE RESONATORS	ExamPub
B. EPCOS AG	JP	P2004,0609	2007-524190	8-Jun-2005		4819811	FILTER ASSEMBLY COMPRISING TWO BULK WAVE RESONATORS	Granted
B. EPCOS AG	US	P2004,0609	11/659,161	8-Jun-2005		7,821,357	FILTER ASSEMBLY COMPRISING TWO BULK WAVE RESONATORS	Granted
B. EPCOS AG	WO	P2004,0609	PCT/EP2005/0061 63	8-Jun-2005			FILTER ASSEMBLY COMPRISING TWO BULK WAVE RESONATORS	National
B. EPCOS AG	DE	P2004,0610	102004037819.3	4-Aug-2004			LOW-LOSS ELECTRO-ACOUSTIC COMPONENT	ExamPub
B. EPCOS AG	JP	P2004,0610	2007-524189	7-Jun-2005		4960867	LOW-LOSS ELECTRO-ACOUSTIC COMPONENT	Granted
B. EPCOS AG	KR	P2004,0610	10-2007-7003526	7-Jun-2005		10-1195701	LOW-LOSS ELECTRO-ACOUSTIC COMPONENT	Granted
B. EPCOS AG	US	P2004,0610	11/659,166	7-Jun-2005		7,692,515	LOW-LOSS ELECTRO-ACOUSTIC COMPONENT	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Count ¹	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	WO	P2004,0610	PCT/EP2005/006116	7-Jun-2005			LOW-LOSS ELECTRO-ACOUSTIC COMPONENT	National
B. EPCOS AG	DE	P2004,0611	102004037820.7	4-Aug-2004			ELECTRICAL CIRCUIT AND COMPONENT WITH SAID CIRCUIT	ExamPub
B. EPCOS AG	JP	P2004,0611	2007-524191	8-Jun-2005			ELECTRICAL CIRCUIT AND COMPONENT WITH SAID CIRCUIT	Abandoned
B. EPCOS AG	US	P2004,0611	11/659,143	8-Jun-2005		7,737,805	ELECTRICAL CIRCUIT AND COMPONENT WITH SAID CIRCUIT	Granted
B. EPCOS AG	WO	P2004,0611	PCT/EP2005/006164	8-Jun-2005			ELECTRICAL CIRCUIT AND COMPONENT WITH SAID CIRCUIT	National
B. EPCOS AG	DE	P2004,0612	102004037821.5	4-Aug-2004		102004037821	Surface acoustic wave filter for single-ended/balanced operating modes has input/output transformers in an acoustic track to link input/output paths	Granted
B. EPCOS AG	DE	P2004,0613	102004037817.7	4-Aug-2004		102004037817	ELECTRIC COMPONENT WITH A FLIP-CHIP CONSTRUCTION	Granted
B. EPCOS AG	JP	P2004,0613	2007-524192	8-Jun-2005			ELECTRIC COMPONENT WITH A FLIP-CHIP CONSTRUCTION	Abandoned
B. EPCOS AG	KR	P2004,0613	10-2007-7002497	8-Jun-2005		10-1148542	ELECTRIC COMPONENT WITH A FLIP-CHIP CONSTRUCTION	Granted
B. EPCOS AG	US	P2004,0613	11/659,146	8-Jun-2005		7,518,249	ELECTRIC COMPONENT WITH A FLIP-CHIP CONSTRUCTION	Granted
B. EPCOS AG	WO	P2004,0613	PCT/EP2005/006165	8-Jun-2005			ELECTRIC COMPONENT WITH A FLIP-CHIP CONSTRUCTION	National
B. EPCOS AG	DE	P2004,0635	102004039229.3	12-Aug-2004			COMPONENT ARRANGEMENT PROVIDED WITH A CARRIER SUBSTRATE	ExamPub
B. EPCOS AG	JP	P2004,0635	2007-525226	2-Aug-2005		4971158	COMPONENT ARRANGEMENT PROVIDED WITH A CARRIER SUBSTRATE	Granted
B. EPCOS AG	US	P2004,0635	11/573,610	2-Aug-2005		7,608,789	COMPONENT ARRANGEMENT PROVIDED WITH A CARRIER SUBSTRATE	Granted
B. EPCOS AG	WO	P2004,0635	PCT/EP2005/008373	2-Aug-2005			COMPONENT ARRANGEMENT PROVIDED WITH A CARRIER SUBSTRATE	National
B. EPCOS AG	DE	P2004,0660	102004040967.6	24-Aug-2004			CIRCUIT HAVING ISOLATED TRANSMITTING AND RECEIVING PATHS	ExamPub
B. EPCOS AG	US	P2004,0660	11/211,131	24-Aug-2005		7,449,977	CIRCUIT HAVING ISOLATED TRANSMITTING AND RECEIVING PATHS	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	DE	P2004,0708	102004045008.0	16-Sep-2004		102004045008	SURFACE ACOUSTIC WAVE TRANSDUCER	Granted
B. EPCOS AG	WO	P2004,0708	PCT/EP2005/008544	5-Aug-2005			SURFACE ACOUSTIC WAVE TRANSDUCER	Abandoned
B. EPCOS AG	DE	P2004,0719	102004045179.6	17-Sep-2004			INTEGRATED FILTER	ExamPub
B. EPCOS AG	WO	P2004,0719	PCT/EP2005/009610	7-Sep-2005			INTEGRATED FILTER	Abandoned
B. EPCOS AG	DE	P2004,0720	102004045181.8	17-Sep-2004		102004045181		Granted
B. EPCOS AG	JP	P2004,0720	2007-531626	18-Aug-2005		5243029	SAW-COMPONENT HAVING A REDUCED TEMPERATURE PATH AND METHOD FOR THE PRODUCTION THEREOF	Granted
B. EPCOS AG	US	P2004,0720	11/574,904	18-Aug-2005		7,589,452	SAW-COMPONENT HAVING A REDUCED TEMPERATURE PATH AND METHOD FOR THE PRODUCTION THEREOF	Granted
B. EPCOS AG	WO	P2004,0720	PCT/EP2005/008964	18-Aug-2005			SAW-COMPONENT HAVING A REDUCED TEMPERATURE PATH AND METHOD FOR THE PRODUCTION THEREOF	National
B. EPCOS AG	DE	P2004,0721	102004045696.8	21-Sep-2004		102004045696	Component with variable electrical component	Granted
B. EPCOS AG	DE	P2004,0788	102004048715.4	6-Oct-2004		102004048715	SAW FILTER FEATURING IMPEDANCE TRANSFORMATION	Granted
B. EPCOS AG	JP	P2004,0788	2007-535045	21-Sep-2005		4829238	SAW FILTER FEATURING IMPEDANCE TRANSFORMATION	Granted
B. EPCOS AG	KR	P2004,0788	10-2007-7010248	21-Sep-2005		10-1227011	SAW FILTER FEATURING IMPEDANCE TRANSFORMATION	Granted
B. EPCOS AG	US	P2004,0788	11/576,732	21-Sep-2005		8,068,001	SAW FILTER FEATURING IMPEDANCE TRANSFORMATION	Granted
B. EPCOS AG	WO	P2004,0788	PCT/EP2005/010220	21-Sep-2005			SAW FILTER FEATURING IMPEDANCE TRANSFORMATION	National
B. EPCOS AG	DE	P2004,0793	102004049499.1	11-Oct-2004			CIRCUIT WORKING WITH ACOUSTIC VOLUME WAVES AND COMPONENT CONNECTED TO THE CIRCUIT	ExamPub
B. EPCOS AG	US	P2004,0793	13/154,776	6-Jul-2011			CIRCUIT WORKING WITH ACOUSTIC VOLUME WAVES AND COMPONENT CONNECTED TO THE CIRCUIT	Abandoned
B. EPCOS AG	US	P2004,0793	11/576,985	23-Sep-2005		7,956,705	CIRCUIT WORKING WITH ACOUSTIC VOLUME WAVES AND COMPONENT CONNECTED TO THE CIRCUIT	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Count	Family Casenameber	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	WO	P2004,0793	PCT/EP2005/0103 36	23-Sep-2005			CIRCUIT WORKING WITH ACOUSTIC VOLUME WAVES AND COMPONENT CONNECTED TO THE CIRCUIT	National
B. EPCOS AG	DE	P2004,0794	102004049498.3	11-Oct-2004			COMPONENT THAT OPERATES USING ACOUSTIC WAVES AND METHOD FOR PRODUCING SAID COMPONENT	ExamPub
B. EPCOS AG	JP	P2004,0794	2007-535054	26-Sep-2005		5134959	COMPONENT THAT OPERATES USING ACOUSTIC WAVES AND METHOD FOR PRODUCING SAID COMPONENT	Granted
B. EPCOS AG	US	P2004,0794	11/576,981	26-Sep-2005		8,471,652	COMPONENT THAT OPERATES USING ACOUSTIC WAVES AND METHOD FOR PRODUCING SAID COMPONENT	Granted
B. EPCOS AG	WO	P2004,0794	PCT/EP2005/0103 87	26-Sep-2005			COMPONENT THAT OPERATES USING ACOUSTIC WAVES AND METHOD FOR PRODUCING SAID COMPONENT	National
B. EPCOS AG	DE	P2004,0801	102004049684.6	12-Oct-2004			FRONT END MODULE COMPRISING AN ANTENNA SWITCH	ExamPub
B. EPCOS AG	JP	P2004,0801	2007-535107	7-Oct-2005			FRONT END MODULE COMPRISING AN ANTENNA SWITCH	Abandoned
B. EPCOS AG	US	P2004,0801	11/576,986	7-Oct-2005		8,077,656	FRONT END MODULE COMPRISING AN ANTENNA SWITCH	Granted
B. EPCOS AG	WO	P2004,0801	PCT/EP2005/0108 39	7-Oct-2005			FRONT END MODULE COMPRISING AN ANTENNA SWITCH	National
B. EPCOS AG	DE	P2004,0882	102004053318.0	4-Nov-2004			Thin film bulk acoustic wave resonator, has edge structure arranged over edge area of upper electrode, and piezoelectric layer arranged between upper and lower electrodes, in which acoustic wave is excited with resonant frequency	ExamPub
B. EPCOS AG	DE	P2004,0883	102004053319.9	4-Nov-2004			FREQUENCY SHUNT	ExamPub
B. EPCOS AG	JP	P2004,0883	2007-538289	7-Oct-2005		5322087	FREQUENCY SHUNT	Granted
B. EPCOS AG	US	P2004,0883	11/718,454	7-Oct-2005		7,567,148	FREQUENCY SHUNT	Granted
B. EPCOS AG	WO	P2004,0883	PCT/EP2005/0108 40	7-Oct-2005			FREQUENCY SHUNT	National
B. EPCOS AG	DE	P2004,0890	102004059965.3	13-Dec-2004			Thin-layer resonator for working with acoustic bulk waves has a piezoelectric layer with chemically etched side surfaces	ExamPub

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Count ¹	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	US	P2004,0890	11/301,564	13-Dec-2005		7,805,820	A METHOD OF PRODUCING A THIN-FILM RESONATOR	Granted
B. EPCOS AG	DE	P2004,0892	502005014861.4	27-Sep-2005		EP1655837	Switchable SAW filter, SAW-filter device and method of operating the same	Granted
B. EPCOS AG	DE	P2004,0892	102004054081.0	9-Nov-2004			Switchable SAW filter, SAW-filter device and method of operating the same	ExamPub
B. EPCOS AG	EP	P2004,0892	05021076.4	27-Sep-2005		EP1655837	Switchable SAW filter, SAW-filter device and method of operating the same	Granted
B. EPCOS AG	FR	P2004,0892	05021076.4	27-Sep-2005		502005014861.4	Switchable SAW filter, SAW-filter device and method of operating the same	Abandoned
B. EPCOS AG	DE	P2004,0948	102004058016.2	1-Dec-2004		102004058016	WIDE BANDWIDTH ACOUSTIC SURFACE WAVE COMPONENT	Granted
B. EPCOS AG	JP	P2004,0948	2007-543713	20-Oct-2005		4940148	WIDE BANDWIDTH ACOUSTIC SURFACE WAVE COMPONENT	Granted
B. EPCOS AG	KR	P2004,0948	10-2007-7014210	20-Oct-2005		10-1220241	WIDE BANDWIDTH ACOUSTIC SURFACE WAVE COMPONENT	Granted
B. EPCOS AG	US	P2004,0948	11/720,576	20-Oct-2005		7,589,453	WIDE BANDWIDTH ACOUSTIC SURFACE WAVE COMPONENT	Granted
B. EPCOS AG	WO	P2004,0948	PCT/EP2005/011310	20-Oct-2005			WIDE BANDWIDTH ACOUSTIC SURFACE WAVE COMPONENT	National
B. EPCOS AG	DE	P2005,0102	102005006833.2	15-Feb-2005			Surface acoustic wave operating component, e.g. thin film resonator, has metallization at outer edge of component for connecting electrode in electrically conductive manner, to connect contact on outer surface of composite	Allowed
B. EPCOS AG	DE	P2005,0155	102005009358.2	1-Mar-2005			WELDABLE CONTACT AND METHOD FOR THE PRODUCTION THEREOF	ExamPub
B. EPCOS AG	JP	P2005,0155	2007-557354	9-Feb-2006		5248868	WELDABLE CONTACT AND METHOD FOR THE PRODUCTION THEREOF	Granted
B. EPCOS AG	US	P2005,0155	11/817,554	9-Feb-2006		8,456,022	WELDABLE CONTACT AND METHOD FOR THE PRODUCTION THEREOF	Granted
B. EPCOS AG	WO	P2005,0155	PCT/EP2006/001160	9-Feb-2006			WELDABLE CONTACT AND METHOD FOR THE PRODUCTION THEREOF	National
B. EPCOS AG	DE	P2005,0156	102005009359.0	1-Mar-2005		102005009359	BAND PASS FILTER	Granted
B. EPCOS AG	JP	P2005,0156	2007-557343	4-Jan-2006		5108535	BAND PASS FILTER	Granted
B. EPCOS AG	US	P2005,0156	11/817,564	4-Jan-2006		7,800,463	BAND PASS FILTER	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	WO	P2005,0156	PCT/EP2006/000037	4-Jan-2006			BAND PASS FILTER	National
B. EPCOS AG	DE	P2005,0170	102005010658.7	8-Mar-2005			DUPLEXER FEATURING IMPROVED POWER COMPATIBILITY	ExamPub
B. EPCOS AG	JP	P2005,0170	2008-500059	5-Jan-2006			DUPLEXER FEATURING IMPROVED POWER COMPATIBILITY	Abandoned
B. EPCOS AG	KR	P2005,0170	10-2007-7020283	5-Jan-2006		10-1237337	DUPLEXER FEATURING IMPROVED POWER COMPATIBILITY	Granted
B. EPCOS AG	US	P2005,0170	11/817,936	5-Jan-2006			DUPLEXER	Abandoned
B. EPCOS AG	WO	P2005,0170	PCT/EP2006/000069	5-Jan-2006			DUPLEXER FEATURING IMPROVED POWER COMPATIBILITY	National
B. EPCOS AG	DE	P2005,0226	102005013895.0	24-Mar-2005			Electrical filter, has cells connected one after other and including resonators, phase shift networks and shunt unit that is arranged in transverse path, where resonators have series resonance and parallel resonance	ExamPub
B. EPCOS AG	DE	P2005,0318	102005020086.9	29-Apr-2005		102005020086	ELECTRICAL MULTIBAND COMPONENT	Granted
B. EPCOS AG	JP	P2005,0318	2008-508140	25-Apr-2006		5345385	ELECTRICAL MULTIBAND COMPONENT	Granted
B. EPCOS AG	US	P2005,0318	11/912,805	25-Apr-2006			ELECTRICAL MULTIBAND COMPONENT	Abandoned
B. EPCOS AG	WO	P2005,0318	PCT/EP2006/003824	25-Apr-2006			ELECTRICAL MULTIBAND COMPONENT	National
B. EPCOS AG	DE	P2005,0421	102005026243.0	7-Jun-2005			ELECTRICAL COMPONENT AND PRODUCTION METHOD	ExamPub
B. EPCOS AG	JP	P2005,0421	2008-515086	24-May-2006		5300471	ELECTRICAL COMPONENT AND PRODUCTION METHOD	Granted
B. EPCOS AG	KR	P2005,0421	10-2007-7027722	24-May-2006		10-1278959	ELECTRICAL COMPONENT AND PRODUCTION METHOD	Granted
B. EPCOS AG	US	P2005,0421	11/916,720	24-May-2006		8,294,535	ELECTRICAL COMPONENT AND PRODUCTION METHOD	Granted
B. EPCOS AG	WO	P2005,0421	PCT/EP2006/004978	24-May-2006			ELECTRICAL COMPONENT AND PRODUCTION METHOD	National
B. EPCOS AG	DE	P2005,0443	102005027715.2	15-Jun-2005			ELECTROACOUSTIC RESONATOR, FILTER, DUPLEXER AND METHOD FOR DETERMINING PARAMETERS OF A RESONATOR	ExamPub

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	JP	P2005,0443	2008-516164	31-May-2006		5054679	ELECTROACOUSTIC RESONATOR, FILTER, DUPLEXER AND METHOD FOR DETERMINING PARAMETERS OF A RESONATOR	Granted
B. EPCOS AG	KR	P2005,0443	10-2007-7028787	31-May-2006		10-1238413	ELECTROACOUSTIC RESONATOR, FILTER, DUPLEXER AND METHOD FOR DETERMINING PARAMETERS OF A RESONATOR	Granted
B. EPCOS AG	US	P2005,0443	11/917,417	31-May-2006		8,076,999	ELECTROACOUSTIC RESONATOR, FILTER, DUPLEXER AND METHOD FOR DETERMINING PARAMETERS OF A RESONATOR	Granted
B. EPCOS AG	WO	P2005,0443	PCT/EP2006/005192	31-May-2006			ELECTROACOUSTIC RESONATOR, FILTER, DUPLEXER AND METHOD FOR DETERMINING PARAMETERS OF A RESONATOR	National
B. EPCOS AG	DE	P2005,0447	102005027945.7	16-Jun-2005		102005027945	LOW-LOSS ELECTRICAL COMPONENT WITH AN AMPLIFIER	Granted
B. EPCOS AG	JP	P2005,0447	2008-516153	10-May-2006		5015916	LOW-LOSS ELECTRICAL COMPONENT WITH AN AMPLIFIER	Granted
B. EPCOS AG	US	P2005,0447	11/917,590	10-May-2006		7,741,913	LOW-LOSS ELECTRICAL COMPONENT WITH AN AMPLIFIER	Granted
B. EPCOS AG	WO	P2005,0447	PCT/EP2006/004398	10-May-2006			LOW-LOSS ELECTRICAL COMPONENT WITH AN AMPLIFIER	National
B. EPCOS AG	DE	P2005,0469	102005029453.7	24-Jun-2005			Chip component e.g. surface acoustic wave component, for automotive engineering, has elastic layer arranged on crystalline or ceramic substrate below connection surfaces, where layer is made of polymer e.g. polysilane	ExamPub
B. EPCOS AG	DE	P2005,0500	102005031375.2	5-Jul-2005		102005031375	Electro-acoustic component, has arrangement of electromagnetic band-gap structures for damping electromagnetic waves in blocking zone	Granted
B. EPCOS AG	DE	P2005,0502	102005032058.9	8-Jul-2005			HF-FILTER WITH IMPROVED ADJACENT CHANNEL SUPPRESSION	Allowed
B. EPCOS AG	JP	P2005,0502	2008-519810	2-Jun-2006		5108758	HF-FILTER WITH IMPROVED ADJACENT CHANNEL SUPPRESSION	Granted
B. EPCOS AG	KR	P2005,0502	10-2008-7002376	2-Jun-2006		10-1270078	HF-FILTER WITH IMPROVED ADJACENT CHANNEL SUPPRESSION	Granted
B. EPCOS AG	US	P2005,0502	11/995,022	2-Jun-2006		8,179,211	RF-FILTER WITH IMPROVED ADJACENT CHANNEL SUPPRESSION	Granted
B. EPCOS AG	WO	P2005,0502	PCT/EP2006/005270	2-Jun-2006			HF-FILTER WITH IMPROVED ADJACENT CHANNEL SUPPRESSION	National

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Count ¹	Family Casenumber	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	DE	P2005,0611	1020050437040.3	5-Aug-2005			ELECTRICAL COMPONENT	ExamPub
B. EPCOS AG	JP	P2005,0611	2008-524356	4-Aug-2006		4981048	ELECTRICAL COMPONENT	Granted
B. EPCOS AG	US	P2005,0611	11/997,764	4-Aug-2006		8,436,248	ELECTRICAL COMPONENT	Granted
B. EPCOS AG	WO	P2005,0611	PCT/DE2006/001368	4-Aug-2006			ELECTRICAL COMPONENT	National
B. EPCOS AG	DE	P2005,0667	102005041816.3	2-Sep-2005			Band pass filter for mobile radio application, has dielectric, which is made piezoelectric during application of current, and transverse branch, which is switched to line over which resonator electrode is connected with voltage source	ExamPub
B. EPCOS AG	DE	P2005,0704	102005044330.3	16-Sep-2005			ADJUSTABLE CAPACITOR AND CIRCUIT PROVIDED THEREWITH	ExamPub
B. EPCOS AG	JP	P2005,0704	2008-530320	12-Sep-2006		4988742	ADJUSTABLE CAPACITOR AND CIRCUIT PROVIDED THEREWITH	Granted
B. EPCOS AG	US	P2005,0704	12/064,869	12-Sep-2006		8,009,407	ADJUSTABLE CAPACITOR AND CIRCUIT PROVIDED THEREWITH	Granted
B. EPCOS AG	WO	P2005,0704	PCT/DE2006/001595	12-Sep-2006			ADJUSTABLE CAPACITOR AND CIRCUIT PROVIDED THEREWITH	National
B. EPCOS AG	DE	P2005,0716	102005045372.4	22-Sep-2005			COMPONENT COMPRISING AT LEAST ONE FILTER THAT OPERATES WITH ACOUSTIC WAVES	ExamPub
B. EPCOS AG	JP	P2005,0716	2008-531525	19-Sep-2006		5074403	COMPONENT COMPRISING AT LEAST ONE FILTER THAT OPERATES WITH ACOUSTIC WAVES	Granted
B. EPCOS AG	KR	P2005,0716	10-2008-7004195	19-Sep-2006		10-1338155	COMPONENT COMPRISING AT LEAST ONE FILTER THAT OPERATES WITH ACOUSTIC WAVES	Granted
B. EPCOS AG	US	P2005,0716	12/067,728	19-Sep-2006		7,859,363	COMPONENT COMPRISING AT LEAST ONE FILTER THAT OPERATES WITH ACOUSTIC WAVES	Granted
B. EPCOS AG	WO	P2005,0716	PCT/DE2006/001649	19-Sep-2006			COMPONENT COMPRISING AT LEAST ONE FILTER THAT OPERATES WITH ACOUSTIC WAVES	National
B. EPCOS AG	DE	P2005,0722	102005045638.3	23-Sep-2005			Operating with surface waves converter	Allowed
B. EPCOS AG	JP	P2005,0722	2008-531527	19-Sep-2006		5478883	TRANSDUCER WORKING WITH SURFACE WAVES	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	KR	P2005,0722	10-2008-7006643	19-Sep-2006		10-1384288	TRANSDUCER WORKING WITH SURFACE WAVES	Granted
B. EPCOS AG	US	P2005,0722	12/064,859	19-Sep-2006		7,863,800	TRANSDUCER WORKING WITH SURFACE WAVES	Granted
B. EPCOS AG	WO	P2005,0722	PCT/DE2006/001661	19-Sep-2006			TRANSDUCER WORKING WITH SURFACE WAVES	National
B. EPCOS AG	DE	P2005,0736	102005046451.3	28-Sep-2005			Balun circuit for electrical component e.g. high frequency component, has transmission lines arranged in signal paths arranged between unbalanced gate and terminals of balanced gate, respectively, and having length of quarter wavelength	ExamPub
B. EPCOS AG	WO	P2005,0736	PCT/DE2006/001697	26-Sep-2006			CIRCUIT AND COMPONENT COMPRISING SAID CIRCUIT	Abandoned
B. EPCOS AG	DE	P2005,0737	102005046445.9	28-Sep-2005			Band-pass filter for use in e.g. wireless LAN module, has signal branches forming resonator that propagates wave modes with amplitude equations, and wave resulting at output gate for locking frequencies and corresponding to equations	ExamPub
B. EPCOS AG	JP	P2005,0737	2008-532592	26-Sep-2006		5032483	BAND-PASS FILTER	Granted
B. EPCOS AG	US	P2005,0737	12/088,311	26-Sep-2006		7,944,327	BAND-PASS FILTER HAVING A RING RESONATOR	Granted
B. EPCOS AG	WO	P2005,0737	PCT/DE2006/001695	26-Sep-2006			BAND-PASS FILTER	National
B. EPCOS AG	DE	P2005,0738	102005046452.1	28-Sep-2005			Multiband circuit	ExamPub
B. EPCOS AG	JP	P2005,0738	2008-532594	28-Sep-2006		4861421	Multiband circuit	Granted
B. EPCOS AG	US	P2005,0738	12/088,002	28-Sep-2006		8,081,047	Multiband circuit	Granted
B. EPCOS AG	WO	P2005,0738	PCT/DE2006/001721	28-Sep-2006			Multiband circuit	National
B. EPCOS AG	DE	P2005,0797	102005047367.9	4-Oct-2005			Bulk acoustic-wave component, has electrically isolated layer, which is arranged between two conductors and includes coupling, where another coupling is larger than former coupling	ExamPub
B. EPCOS AG	DE	P2005,0861	102005051852.4	28-Oct-2005			SAW FILTER COMPRISING A BROADBAND BAND-STOP FILTER	ExamPub
B. EPCOS AG	JP	P2005,0861	2008-536922	12-Oct-2006		5294868	SAW FILTER COMPRISING A BROADBAND BAND-STOP FILTER	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	US	P2005,0861	12/091,077	12-Oct-2006		7,876,179	SAW FILTER COMPRISING A BROADBAND BAND-STOP FILTER	Granted
B. EPCOS AG	WO	P2005,0861	PCT/DE2006/001798	12-Oct-2006			SAW FILTER COMPRISING A BROADBAND BAND-STOP FILTER	National
B. EPCOS AG	DE	P2005,0957	112006002507.4	20-Nov-2006			COMPONENT OPERATED BY GUIDED ACOUSTIC WAVES	ExamPub
B. EPCOS AG	DE	P2005,0957	102005055871.2	23-Nov-2005			Guided bulk acoustic wave operated component for e.g. ladder filter, has dielectric layer with low acoustic impedance, and metal layer including partial layer with high impedance, where ratio between impedances lies in certain range	Abandoned
B. EPCOS AG	DE	P2005,0957	112006002542.2	20-Nov-2006			ELECTROACOUSTIC COMPONENT	ExamPub
B. EPCOS AG	JP	P2005,0957	2008-541582	20-Nov-2006		5001947	COMPONENT OPERATED BY GUIDED ACOUSTIC WAVES	Granted
B. EPCOS AG	JP	P2005,0957	2008-541581	20-Nov-2006		5193051	ELECTROACOUSTIC COMPONENT	Granted
B. EPCOS AG	US	P2005,0957	12/093,531	20-Nov-2006		7,948,333	COMPONENT OPERATED BY GUIDED ACOUSTIC WAVES	Granted
B. EPCOS AG	US	P2005,0957	12/093,876	20-Nov-2006		7,851,977	ELECTROACOUSTIC COMPONENT	Granted
B. EPCOS AG	WO	P2005,0957	PCT/DE2006/002029	20-Nov-2006			ELECTROACOUSTIC COMPONENT	National
B. EPCOS AG	WO	P2005,0957	PCT/DE2006/002034	20-Nov-2006			COMPONENT OPERATED BY GUIDED ACOUSTIC WAVES	National
B. EPCOS AG	DE	P2005,0958	102005055872.0	23-Nov-2005			Electro acoustic component e.g. guided bulk acoustic wave component, has conducting paths that run transverse to each other, are electrically isolated from each other and intersect each other	ExamPub
B. EPCOS AG	DE	P2005,0959	102005055869.0	23-Nov-2005			Electrical multi-layer component e.g. for realize passive electrical components, has layers lying one above other and base with coil integrated in base and has turn	ExamPub
B. EPCOS AG	DE	P2005,0960	102005055870.4	23-Nov-2005			Electroacoustic component, has layer system arranged between carrier substrate and piezo substrate, and comprising metal layer and dielectric layer, where thickness of piezo substrate is maximally half of thickness of carrier substrate	ExamPub
B. EPCOS AG	JP	P2005,0960	2008-541578	15-Nov-2006		5361388	ELECTROACOUSTIC COMPONENT	Granted
B. EPCOS AG	US	P2005,0960	12/094,710	15-Nov-2006		8,258,895	ELECTROACOUSTIC COMPONENT	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	WO	P2005,0960	PCT/DE2006/002005	15-Nov-2006			ELECTROACOUSTIC COMPONENT	National
B. EPCOS AG	DE	P2005,0970	102005056340.6	25-Nov-2005			COMPONENT OPERATING ON ACOUSTIC WAVES	ExamPub
B. EPCOS AG	JP	P2005,0970	2008-541579	16-Nov-2006		5183482	COMPONENT OPERATING ON ACOUSTIC WAVES	Granted
B. EPCOS AG	US	P2005,0970	12/094,715	16-Nov-2006		7,884,686	COMPONENT OPERATING ON ACOUSTIC WAVES	Granted
B. EPCOS AG	WO	P2005,0970	PCT/DE2006/002014	16-Nov-2006			COMPONENT OPERATING ON ACOUSTIC WAVES	National
B. EPCOS AG	DE	P2005,0971	102005057762.8	2-Dec-2005			BULK ACOUSTIC WAVE RESONATOR	Abandoned
B. EPCOS AG	JP	P2005,0971	2008-542601	4-Dec-2006		5032494	BULK ACOUSTIC WAVE RESONATOR	Granted
B. EPCOS AG	US	P2005,0971	12/095,085	4-Dec-2006		7,961,066	BULK ACOUSTIC WAVE RESONATOR	Granted
B. EPCOS AG	WO	P2005,0971	PCT/DE2006/002165	4-Dec-2006			BULK ACOUSTIC WAVE RESONATOR	National
B. EPCOS AG	DE	P2005,1061	102005061344.6	21-Dec-2005			RESONATOR FUNCTIONING WITH ACOUSTIC VOLUME WAVES	ExamPub
B. EPCOS AG	JP	P2005,1061	2008-546119	18-Dec-2006		4903219	RESONATOR FUNCTIONING WITH ACOUSTIC VOLUME WAVES	Granted
B. EPCOS AG	US	P2005,1061	12/158,210	18-Dec-2006		7,795,998	RESONATOR FUNCTIONING WITH ACOUSTIC VOLUME WAVES	Granted
B. EPCOS AG	WO	P2005,1061	PCT/DE2006/002270	18-Dec-2006			RESONATOR FUNCTIONING WITH ACOUSTIC VOLUME WAVES	National
B. EPCOS AG	DE	P2005,1077	102005061800.6	23-Dec-2005			Surface acoustic wave transducer e.g. electroacoustic transducer, for e.g. recursive filter, has marginal areas, whose breadth is adjusted such that wave number in excitation area is constant and smaller than in marginal and external areas	ExamPub
B. EPCOS AG	JP	P2005,1077	2008-546120	18-Dec-2006		4976416	ACOUSTIC WAVE TRANSDUCER AND FILTER COMPRISING SAID TRANSDUCER	Granted
B. EPCOS AG	US	P2005,1077	12/158,171	18-Dec-2006		7,868,717	ACOUSTIC WAVE TRANSDUCER AND FILTER COMPRISING SAID TRANSDUCER	Granted
B. EPCOS AG	WO	P2005,1077	PCT/DE2006/002271	18-Dec-2006			ACOUSTIC WAVE TRANSDUCER AND FILTER COMPRISING SAID TRANSDUCER	National
B. EPCOS AG	DE	P2005,1078	102005061799.9	23-Dec-2005		102005061799	Metallizing silver surfaces comprises providing a workpiece with a silver surface, activating the silver	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
							surface by treating with hydrochloric acid salt activator solution and removing silver chloride formed by the silver surface	
B. EPCOS AG	DE	P2006,0062	102006003850.9	26-Jan-2006		102006003850	Electroacoustic element has a single crystal element for use as a guide bulk acoustic wave device	Granted
B. EPCOS AG	JP	P2006,0062	2008-551645	24-Jan-2007		5175745	ELECTROACOUSTIC COMPONENT	Granted
B. EPCOS AG	US	P2006,0062	12/161,420	24-Jan-2007		7,999,436	ELECTROACOUSTIC COMPONENT	Granted
B. EPCOS AG	WO	P2006,0062	PCT/DE2007/000128	24-Jan-2007			ELECTROACOUSTIC COMPONENT	National
B. EPCOS AG	DE	P2006,0097	102006005298.6	6-Feb-2006			Duplexer	ExamPub
B. EPCOS AG	JP	P2006,0097	2008-553607	31-Jan-2007		5199889	Duplexer	Granted
B. EPCOS AG	US	P2006,0097	12/161,772	31-Jan-2007			Duplexer	Abandoned
B. EPCOS AG	WO	P2006,0097	PCT/DE2007/000175	31-Jan-2007			Duplexer	National
B. EPCOS AG	DE	P2006,0212	102006010752.7	8-Mar-2006		102006010752	DMS - FILTER WITH CONNECTED RESONATORS	Granted
B. EPCOS AG	JP	P2006,0212	2008-557591	8-Mar-2007		5160454	DMS - FILTER WITH CONNECTED RESONATORS	Granted
B. EPCOS AG	US	P2006,0212	12/281,887	8-Mar-2007		7,999,636	DMS-FILTER WITH CONNECTED RESONATORS	Granted
B. EPCOS AG	WO	P2006,0212	PCT/DE2007/000429	8-Mar-2007			DMS - FILTER WITH CONNECTED RESONATORS	National
B. EPCOS AG	DE	P2006,0298	102006015072.4	31-Mar-2006			MOBILE RADIO MODULE FOR A MULTI-BAND-MULTI-MODE FUNCTION	ExamPub
B. EPCOS AG	JP	P2006,0298	2009-501846	28-Mar-2007		5350214	MOBILE RADIO MODULE FOR A MULTI-BAND-MULTI-MODE FUNCTION	Granted
B. EPCOS AG	KR	P2006,0298	10-2008-7026754	28-Mar-2007		10-1384300	MOBILE RADIO MODULE FOR A MULTI-BAND-MULTI-MODE FUNCTION	Granted
B. EPCOS AG	US	P2006,0298	12/241,956	30-Sep-2008		8,660,603	Mobile Radio Module for Multiband-Multimode Operation	Granted
B. EPCOS AG	WO	P2006,0298	PCT/DE2007/000561	28-Mar-2007			MOBILE RADIO MODULE FOR A MULTI-BAND-MULTI-MODE FUNCTION	National
B. EPCOS AG	DE	P2006,0372	102006019118.8	25-Apr-2006		102006019118	ELEMENT WITH OPTICAL MARKING, METHOD FOR PRODUCTION AND USE THEREOF	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	JP	P2006,0372	2009-506910	24-Apr-2007		5426364	ELEMENT WITH OPTICAL MARKING, METHOD FOR PRODUCTION AND USE THEREOF	Granted
B. EPCOS AG	US	P2006,0372	12/258,301	24-Oct-2008		8,691,369	ELEMENT WITH OPTICAL MARKING, METHOD FOR PRODUCTION AND USE THEREOF	Granted
B. EPCOS AG	WO	P2006,0372	PCT/DE2007/000728	24-Apr-2007			ELEMENT WITH OPTICAL MARKING, METHOD FOR PRODUCTION AND USE THEREOF	National
B. EPCOS AG	DE	P2006,0388	102006019961.8	28-Apr-2006		102006019961	Electroacoustic component, has metal layer arranged between substrate and intermediate layer that is arranged between metal layer and another substrate, where former substrate is made of monocrystal lithium tantalate	Granted
B. EPCOS AG	JP	P2006,0388	2009-506913	27-Apr-2007		5323681	ELECTROACOUSTIC COMPONENT	Granted
B. EPCOS AG	US	P2006,0388	12/259,687	28-Oct-2008		7,696,674	ELECTROACOUSTIC COMPONENT OPERATING WITH GUIDED BULK ACOUSTIC WAVES	Granted
B. EPCOS AG	WO	P2006,0388	PCT/DE2007/000765	27-Apr-2007			ELECTROACOUSTIC COMPONENT	National
B. EPCOS AG	DE	P2006,0443	102006022580.5	15-May-2006		102006022580	ELECTRICAL COMPONENT	Granted
B. EPCOS AG	JP	P2006,0443	2009-510279	15-May-2007		5123292	ELECTRICAL COMPONENT	Granted
B. EPCOS AG	US	P2006,0443	12/271,055	14-Nov-2008		7,821,358	ELECTRICAL COMPONENT	Granted
B. EPCOS AG	WO	P2006,0443	PCT/DE2007/000896	15-May-2007			ELECTRICAL COMPONENT	National
B. EPCOS AG	CN	P2006,0473	200780018655.X	9-May-2007		ZL200780018655.X	CERAMIC MATERIAL, SINTERED CERAMICS AND COMPONENT MADE THEREFROM, PRODUCTION METHOD, AND USE OF THE CERAMICS	Granted
B. EPCOS AG	DE	P2006,0473	102006024231.9	23-May-2006		102006024231	CERAMIC MATERIAL, SINTERED CERAMICS AND COMPONENT MADE THEREFROM, PRODUCTION METHOD, AND USE OF THE CERAMICS	Granted
B. EPCOS AG	JP	P2006,0473	2009-511329	9-May-2007		5647412	CERAMIC MATERIAL, SINTERED CERAMICS AND COMPONENT MADE THEREFROM, PRODUCTION METHOD, AND USE OF THE CERAMICS	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	KR	P2006,0473	10-2008-7031126	9-May-2007		10-1339090	CERAMIC MATERIAL, SINTERED CERAMICS AND COMPONENT MADE THEREFROM, PRODUCTION METHOD, AND USE OF THE CERAMICS	Granted
B. EPCOS AG	TW	P2006,0473	96117573	17-May-2007		1400214	CERAMIC MATERIAL, SINTERED CERAMICS AND COMPONENT MADE THEREFROM, PRODUCTION METHOD, AND USE OF THE CERAMIC	Granted
B. EPCOS AG	US	P2006,0473	12/275,645	21-Nov-2008		7,816,293	CERAMIC MATERIAL, SINTERED CERAMICS AND COMPONENT MADE THEREFROM, PRODUCTION METHOD, AND USE OF THE CERAMIC	Granted
B. EPCOS AG	WO	P2006,0473	PCT/DE2007/000847	9-May-2007			CERAMIC MATERIAL, SINTERED CERAMICS AND COMPONENT MADE THEREFROM, PRODUCTION METHOD, AND USE OF THE CERAMICS	National
B. EPCOS AG	DE	P2006,0474	1,0200602423e+011	23-May-2006		102006024230	Electric component, has bandpass filter, which has inductor and capacitor, where filter has broader pass band and is provided as electrostatic discharge protection for another band pass filter, where two filters are connected together	Granted
B. EPCOS AG	DE	P2006,0502	102006025162.8	30-May-2006		102006025162	FLIP-CHIP COMPONENT AND METHOD FOR THE PRODUCTION THEREOF	Granted
B. EPCOS AG	JP	P2006,0502	2009-512410	30-May-2007		5220004	FLIP-CHIP COMPONENT AND METHOD FOR THE PRODUCTION THEREOF	Granted
B. EPCOS AG	US	P2006,0502	12/277,927	25-Nov-2008		7,673,386	FLIP-CHIP COMPONENT PRODUCTION METHOD	Granted
B. EPCOS AG	WO	P2006,0502	PCT/DE2007/000970	30-May-2007			FLIP-CHIP COMPONENT AND METHOD FOR THE PRODUCTION THEREOF	National
B. EPCOS AG	DE	P2006,0638	102006031342.9	6-Jul-2006		102006031342	Electrical circuit for portable radio device's front end module, has partial circuit with balanced gate and unbalanced gate that includes ground connection, which lies on local ground, and including coupler having conductive strips	Granted
B. EPCOS AG	DE	P2006,0680	102006032950.3	17-Jul-2006		102006032950	CIRCUIT WITH BAW-RESONATORS	Granted
B. EPCOS AG	WO	P2006,0680	PCT/DE2007/001280	17-Jul-2007			CIRCUIT WITH BAW-RESONATORS	Abandoned
B. EPCOS AG	CN	P2006,0687	200780026988.7	29-Jun-2007			MODULE HAVING A FLAT STRUCTURE, AND EQUIPMENT METHOD	Abandoned

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Casenumber	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	DE	P2006,0687	10200603222.9	18-Jul-2006		10200603222	MODULE HAVING A FLAT STRUCTURE, AND EQUIPMENT METHOD	Granted
B. EPCOS AG	EP	P2006,0687	07785583.1	29-Jun-2007			MODULE HAVING A FLAT STRUCTURE, AND EQUIPMENT METHOD	Abandoned
B. EPCOS AG	JP	P2006,0687	2009-519785	29-Jun-2007			MODULE HAVING A FLAT STRUCTURE, AND EQUIPMENT METHOD	Abandoned
B. EPCOS AG	KR	P2006,0687	10-2009-7003246	29-Jun-2007			MODULE HAVING A FLAT STRUCTURE, AND EQUIPMENT METHOD	Abandoned
B. EPCOS AG	MY	P2006,0687	P120090220	29-Jun-2007			MODULE HAVING A FLAT STRUCTURE, AND EQUIPMENT METHOD	Abandoned
B. EPCOS AG	PH	P2006,0687	1-2009-500141	29-Jun-2007			MODULE HAVING A FLAT STRUCTURE, AND EQUIPMENT METHOD	Abandoned
B. EPCOS AG	US	P2006,0687	12/352,436	12-Jan-2009			Module with Flat Construction and Method for Placing Components	Abandoned
B. EPCOS AG	WO	P2006,0687	PCT/DE2007/001155	29-Jun-2007			MODULE HAVING A FLAT STRUCTURE, AND EQUIPMENT METHOD	National
B. EPCOS AG	DE	P2006,0690	102006033709.3	20-Jul-2006		102006033709	ELECTRIC MODULE	Granted
B. EPCOS AG	JP	P2006,0690	2009-519791	19-Jul-2007		5219295	ELECTRIC MODULE	Granted
B. EPCOS AG	US	P2006,0690	12/352,730	13-Jan-2009		7,944,325	ELECTRICAL MODULE WITH SPECIFIED GROUND-SIDE CONNECTION OF FILTER CIRCUIT SHUNT ARMS	Granted
B. EPCOS AG	WO	P2006,0690	PCT/DE2007/001294	19-Jul-2007			ELECTRIC MODULE	National
B. EPCOS AG	DE	P2006,0745	102006035874.0	1-Aug-2006		102006035874	High frequency filter, has series resonators operated with acoustic volume waves and parallel resonators, which exhibit acoustically active region and transition region, respectively	Granted
B. EPCOS AG	US	P2006,0745	11/830,415	30-Jul-2007		7,636,026	BULK ACOUSTIC WAVE RESONATOR AND FILTER	Granted
B. EPCOS AG	DE	P2006,1005	102006046279.3	29-Sep-2006			Electrical circuit for surface mounting component, has signal paths for data transmissions in respective frequency ranges, and interface circuit arranged in one path to suppress common mode signals outside transmission range of signal paths	Abandoned
B. EPCOS AG	JP	P2006,1005	2009-529531	27-Sep-2007			ELECTRICAL CIRCUIT COMPRISING A DIFFERENTIAL SIGNAL PATH AND COMPONENT COMPRISING SUCH A CIRCUIT	Abandoned

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	US	P2006,1005	12/400,161	9-Mar-2009		7,795,992	ELECTRICAL CIRCUIT COMPRISING A DIFFERENTIAL SIGNAL PATH AND COMPONENT WITH SUCH A CIRCUIT	Granted
B. EPCOS AG	WO	P2006,1005	PCT/DE2007/001752	27-Sep-2007			ELECTRICAL CIRCUIT COMPRISING A DIFFERENTIAL SIGNAL PATH AND COMPONENT COMPRISING SUCH A CIRCUIT	National
B. EPCOS AG	DE	P2006,1006	102006046278.5	29-Sep-2006		102006046278	RESONATOR FUNCTIONING WITH ACOUSTIC VOLUME WAVES	Granted
B. EPCOS AG	WO	P2006,1006	PCT/DE2007/001753	27-Sep-2007			RESONATOR FUNCTIONING WITH ACOUSTIC VOLUME WAVES	Abandoned
B. EPCOS AG	DE	P2006,1008	102006047698.0	9-Oct-2006		102006047698	BULK ACOUSTIC WAVE RESONATOR	Granted
B. EPCOS AG	US	P2006,1008	11/868,006	5-Oct-2007		7,541,717	BULK ACOUSTIC WAVE RESONATOR	Granted
B. EPCOS AG	US	P2006,1041	12/412,150	26-Mar-2009	2009-0278630	7,940,144	SUBSTRATE WITH EMBEDDED SIGNAL LINE AND GROUND PLANES WITH A SLOT THEREIN	Granted
B. EPCOS AG	DE	P2006,1041	102006047427.9	06-Oct-2006	102006047427	102006047427	Substrat mit HF-tauglicher Leitung	Granted
B. EPCOS AG	JP	P2006,1041	2009-530754	04-Oct-2007	2010-506387	5385144	Substrate comprising an HF-compatible line	Granted
B. EPCOS AG	WO	P2006,1041	PCT/DE2007/001778	04-Oct-2007	WO2008/040337		SUBSTRATE COMPRISING AN HF-COMPATIBLE LINE	National
B. EPCOS AG	DE	P2006,1055	102006048879.2	16-Oct-2006			ELECTROACOUSTIC COMPONENT	ExamPub
B. EPCOS AG	JP	P2006,1055	2009-532676	12-Oct-2007		5203378	ELECTROACOUSTIC COMPONENT	Granted
B. EPCOS AG	US	P2006,1055	12/445,507	12-Oct-2007		8,247,955	ELECTROACOUSTIC COMPONENT	Granted
B. EPCOS AG	WO	P2006,1055	PCT/DE2007/001825	12-Oct-2007			ELECTROACOUSTIC COMPONENT	National
B. EPCOS AG	DE	P2006,1218	102006057340.4	5-Dec-2006		102006057340	DMS FILTER WITH IMPROVED MATCHING	Granted
B. EPCOS AG	JP	P2006,1218	2009-539600	28-Nov-2007			DMS FILTER WITH IMPROVED MATCHING	Abandoned
B. EPCOS AG	KR	P2006,1218	10-2009-7013836	28-Nov-2007		10-1382070	DMS FILTER WITH IMPROVED MATCHING	Granted
B. EPCOS AG	US	P2006,1218	12/473,107	27-May-2009		7,915,975	DMS FILTER WITH IMPROVED MATCHING	Granted
B. EPCOS AG	WO	P2006,1218	PCT/DE2007/002154	28-Nov-2007			DMS FILTER WITH IMPROVED MATCHING	National
B. EPCOS AG	DE	P2006,1280	102006059996.9	19-Dec-2006		102006059996	ARRANGEMENT HAVING AN RF COMPONENT AND METHOD FOR COMPENSATION FOR THE LINKING INDUCTANCE	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	JP	P2006,1280	2009-541745	14-Nov-2007		5517627	ARRANGEMENT HAVING AN RF COMPONENT AND METHOD FOR COMPENSATION FOR THE LINKING INDUCTANCE	Granted
B. EPCOS AG	US	P2006,1280	12/477,740	3-Jun-2009		7,978,019	CONFIGURATION HAVING AN RF COMPONENT AND A METHOD FOR COMPENSATION OF LINKING INDUCTANCE	Granted
B. EPCOS AG	WO	P2006,1280	PCT/DE2007/002078	14-Nov-2007			ARRANGEMENT HAVING AN RF COMPONENT AND METHOD FOR COMPENSATION FOR THE LINKING INDUCTANCE	National
B. EPCOS AG	DE	P2006,1289	102006060429.6	20-Dec-2006		102006060429	Electrical components, has leadframe structure, which is provided as electrical connection of component and another leadframe structure has conducting is fixed on one of two chips	Granted
B. EPCOS AG	DE	P2007,0040	102007003182.5	22-Jan-2007			ELECTRICAL COMPONENT WITH A CARRIER SUBSTRATE AND A SEMICONDUCTOR CHIP	ExamPub
B. EPCOS AG	JP	P2007,0040	2009-545817	16-Jan-2008		5295125	ELECTRICAL COMPONENT WITH A CARRIER SUBSTRATE AND A SEMICONDUCTOR CHIP	Granted
B. EPCOS AG	US	P2007,0040	12/503,651	15-Jul-2009		7,952,197	ELECTRICAL COMPONENT	Granted
B. EPCOS AG	WO	P2007,0040	PCT/DE2008/000065	16-Jan-2008			ELECTRICAL COMPONENT WITH A CARRIER SUBSTRATE AND A SEMICONDUCTOR CHIP	National
B. EPCOS AG	DE	P2007,0162	112008000116.2	15-Feb-2008			SURFACE ACOUSTIC WAVE FILTER	Exam
B. EPCOS AG	DE	P2007,0162	102007008110.5	19-Feb-2007			SURFACE ACOUSTIC WAVE FILTER	Abandoned
B. EPCOS AG	JP	P2007,0162	2009-549776	15-Feb-2008		5194032	SURFACE ACOUSTIC WAVE FILTER	Granted
B. EPCOS AG	US	P2007,0162	12/538,511	10-Aug-2009		8,125,300	SURFACE ACOUSTIC WAVE FILTER COMPRISING A BAND-PASS FILTER AND A BAND-STOP FILTER	Granted
B. EPCOS AG	WO	P2007,0162	PCT/DE2008/000292	15-Feb-2008			SURFACE ACOUSTIC WAVE FILTER	National
B. EPCOS AG	DE	P2007,0209	102007063858.4	1-Mar-2007		102007063858	Operating with surface waves DNS filter	Granted
B. EPCOS AG	DE	P2007,0209	102007010040.1	1-Mar-2007		102007010040	SURFACE ACOUSTIC WAVE RESONATOR FILTER	Granted
B. EPCOS AG	KR	P2007,0209	10-2009-7020298	26-Feb-2008			SURFACE ACOUSTIC WAVE RESONATOR FILTER	Abandoned
B. EPCOS AG	US	P2007,0209	12/551,100	31-Aug-2009		8,026,780	RESONATOR FILTER WORKING WITH SURFACE ACOUSTIC WAVES	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	WO	P2007,0209	PCT/EP2008/052317	26-Feb-2008			SURFACE ACOUSTIC WAVE RESONATOR FILTER	National
B. EPCOS AG	DE	P2007,0278	102007012382.7	14-Mar-2007			COMPONENT OPERATED BY GUIDED ACOUSTIC WAVES AND ELECTRIC MODULE COMPRISING SAID COMPONENT	ExamPub
B. EPCOS AG	WO	P2007,0278	PCT/EP2008/052941	12-Mar-2008			COMPONENT OPERATED BY GUIDED ACOUSTIC WAVES AND ELECTRIC MODULE COMPRISING SAID COMPONENT	Abandoned
B. EPCOS AG	DE	P2007,0405	102007019082.6	23-Apr-2007			FRONT END MODULE	ExamPub
B. EPCOS AG	JP	P2007,0405	2010504663	22-Apr-2008			FRONT END MODULE FOR A MULTIBAND MULTISTANDARD COMMUNICATION END DEVICE WITH A SHARED ANTENNA	Abandoned
B. EPCOS AG	US	P2007,0405	12/597,066	22-Apr-2008		8,559,893	FRONT END MODULE	Granted
B. EPCOS AG	WO	P2007,0405	PCT/EP2008/054861	22-Apr-2008			FRONT END MODULE FOR A MULTIBAND MULTISTANDARD COMMUNICATION END DEVICE WITH A SHARED ANTENNA	National
B. EPCOS AG	DE	P2007,0410	102007019325.6	24-Apr-2007		102007019325	COMPONENT WORKING WITH ACOUSTIC WAVES	Granted
B. EPCOS AG	WO	P2007,0410	PCT/EP2008/054928	23-Apr-2008			COMPONENT WORKING WITH ACOUSTIC WAVES	Abandoned
B. EPCOS AG	DE	P2007,0432	102007020288.3	30-Apr-2007		102007020288	ELECTRICAL COMPONENT	Granted
B. EPCOS AG	JP	P2007,0432	2010-504733	29-Apr-2008		5156825	ELECTRICAL COMPONENT	Granted
B. EPCOS AG	KR	P2007,0432	10-2009-7024503	29-Apr-2008		10-1531723	ELECTRICAL COMPONENT	Granted
B. EPCOS AG	US	P2007,0432	12/606,417	27-Oct-2009		8,558,356	ELECTRICAL COMPONENT	Granted
B. EPCOS AG	WO	P2007,0432	PCT/EP2008/055255	29-Apr-2008			ELECTRICAL COMPONENT	National
B. EPCOS AG	DE	P2007,0447	102007021581.0	8-May-2007			ELECTRICAL COMPONENT WITH A FRONT-END CIRCUIT	ExamPub
B. EPCOS AG	JP	P2007,0447	2010-506934	7-May-2008		5220099	ELECTRICAL COMPONENT WITH A FRONT-END CIRCUIT	Granted
B. EPCOS AG	US	P2007,0447	12/613,174	5-Nov-2009		8,620,244	ELECTRICAL COMPONENT WITH A FRONT-END CIRCUIT	Granted
B. EPCOS AG	WO	P2007,0447	PCT/EP2008/055662	7-May-2008			ELECTRICAL COMPONENT WITH A FRONT-END CIRCUIT	National
B. EPCOS AG	DE	P2007,0501	102007024895.6	29-May-2007		102007024895	Multiband-Filter	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Count ¹	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	JP	P2007,0501	2010-509807	27-May-2008		5679812	MULTIBAND FILTER	Granted
B. EPCOS AG	US	P2007,0501	12/625,007	24-Nov-2009		8,384,496	MULTIBAND FILTER	Granted
B. EPCOS AG	WO	P2007,0501	PCT/EP2008/056510	27-May-2008			MULTIBAND FILTER	National
B. EPCOS AG	DE	P2007,0522	102007025992.3	4-Jun-2007			METHOD FOR PRODUCING A MEMS PACKAGE	ExamPub
B. EPCOS AG	JP	P2007,0522	2010-510758	2-Jun-2008		5450396	METHOD FOR PRODUCING A MEMS PACKAGE	Granted
B. EPCOS AG	US	P2007,0522	12/627,707	30-Nov-2009		8,404,516	METHOD FOR PRODUCING A MEMS PACKAGE	Granted
B. EPCOS AG	WO	P2007,0522	PCT/EP2008/056787	2-Jun-2008			METHOD FOR PRODUCING A MEMS PACKAGE	National
B. EPCOS AG	DE	P2007,0563	102007028292.5	20-Jun-2007			COMPONENT HAVING STRESS-REDUCED MOUNTING	ExamPub
B. EPCOS AG	JP	P2007,0563	2010-512655	13-Jun-2008			COMPONENT HAVING STRESS-REDUCED MOUNTING	Abandoned
B. EPCOS AG	US	P2007,0563	12/665,385	13-Jun-2008		8,524,466	COMPONENT HAVING STRESS-REDUCED MOUNTING	Granted
B. EPCOS AG	WO	P2007,0563	PCT/EP2008/057498	13-Jun-2008			COMPONENT HAVING STRESS-REDUCED MOUNTING	National
B. EPCOS AG	DE	P2007,0566	102007028288.7	20-Jun-2007		102007028288	MEMS COMPONENT AND METHOD FOR PRODUCTION	Granted
B. EPCOS AG	JP	P2007,0566	2010-512656	13-Jun-2008		5203454	MEMS COMPONENT AND METHOD FOR PRODUCTION	Granted
B. EPCOS AG	US	P2007,0566	12/642,357	18-Dec-2009		8,110,962	MEMS COMPONENT AND METHOD FOR PRODUCTION	Granted
B. EPCOS AG	WO	P2007,0566	PCT/EP2008/057502	13-Jun-2008			MEMS COMPONENT AND METHOD FOR PRODUCTION	National
B. EPCOS AG	DE	P2007,0567	102007028291.7	20-Jun-2007		DE102007028291	Mit akustischen Oberflächenwellen arbeitendes Transversalfilter	Granted
B. EPCOS AG	JP	P2007,0567	2010-512657	13-Jun-2008			TRANSVERSAL FILTER OPERATING WITH ACOUSTIC SURFACE WAVES	Abandoned
B. EPCOS AG	US	P2007,0567	12/640,097	17-Dec-2009		7,978,026	TRANSVERSAL FILTER OPERATING USING SURFACE ACOUSTIC WAVES	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	WO	P2007,0567	PCT/EP2008/057504	13-Jun-2008			TRANSVERSAL FILTER OPERATING WITH ACOUSTIC SURFACE WAVES	National
B. EPCOS AG	DE	P2007,0568	102007028290.9	20-Jun-2007		DE102007028290	Filter has pass band with steep edge and serial connection of band pass filter and notch filter, where range of band pass filter is larger than range of notch filter	Granted
B. EPCOS AG	DE	P2007,0569	102007028289.5	20-Jun-2007		DE102007028289	Electrical component has radio frequency identification tag that has transducer, where transducer is operated with acoustic bulk waves	Granted
B. EPCOS AG	DE	P2007,0660	102007032278.1	11-Jul-2007			Panel for use as module substrate of high-frequency device, has contact surfaces on upper sides of module sections, and connecting line electrically connecting test points or switching circuits in panel with each other	ExamPub
B. EPCOS AG	DE	P2007,0661	102007032277.3	11-Jul-2007	102007032277		Panel for module substrates and method for testing unassembled module substrates	ExamPub
B. EPCOS AG	DE	P2007,0713	102007033233.7	17-Jul-2007		DE102007033233	Hochpassfilter und Verwendung	Granted
B. EPCOS AG	WO	P2007,0713	PCT/EP2008/059318	16-Jul-2008			HIGH-PASS FILTER AND USE THEREOF	Abandoned
B. EPCOS AG	DE	P2007,0738	102007035181.1	27-Jul-2007		DE102007035181	Verfahren zur Herstellung eines Moduls und Modul	Granted
B. EPCOS AG	WO	P2007,0738	PCT/EP2008/059824	25-Jul-2008			METHOD FOR MANUFACTURING A MODULE AND MODULE	Abandoned
B. EPCOS AG	DE	P2007,0766	102007037502.8	8-Aug-2007		DE102007037502	COMPONENT HAVING A REDUCED TEMPERATURE GRADIENT AND METHOD FOR THE PRODUCTION THEREOF	Granted
B. EPCOS AG	JP	P2007,0766	2010-519470	7-Aug-2008		5416105	COMPONENT HAVING A REDUCED TEMPERATURE GRADIENT AND METHOD FOR THE PRODUCTION THEREOF	Granted
B. EPCOS AG	US	P2007,0766	12/700,446	4-Feb-2010		8,098,001	COMPONENT WITH REDUCED TEMPERATURE RESPONSE, AND METHOD FOR PRODUCTION	Granted
B. EPCOS AG	WO	P2007,0766	PCT/EP2008/060417	7-Aug-2008			COMPONENT HAVING A REDUCED TEMPERATURE GRADIENT AND METHOD FOR THE PRODUCTION THEREOF	National
B. EPCOS AG	DE	P2007,0778	69533389.5	7-Dec-1995		EP0718970	Saw filter	Abandoned
B. EPCOS AG	EP	P2007,0778	95308901.8	7-Dec-1995		EP0718970	Saw filter	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Count ¹	Family Classnumber	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	FR	P2007,0778	95308901.8	7-Dec-1995		EP0718970	Saw filter	Lapsed
B. EPCOS AG	GB	P2007,0778	9426466.0	23-Dec-1994			Saw filter	Abandoned
B. EPCOS AG	JP	P2007,0778	07-336327	23-Dec-1995		3497643	SAW FILTER	Abandoned
B. EPCOS AG	US	P2007,0778	08/574,604	18-Dec-1995		5,682,126	LADDER SAW FILTER CONTAINED IN A SINGLE ACOUSTIC TRACK	Expired
B. EPCOS AG	CA	P2007,0817	2287093	21-Oct-1999			LOW LOSS SURFACE ACOUSTIC WAVE FILTER ON AN OPTIMALLY CUT QUARTZ SUBSTRATE	Abandoned
B. EPCOS AG	CN	P2007,0817	99122167.2	29-Oct-1999			Low loss surface acoustic wave filter on optimum cut quartz substrate	Abandoned
B. EPCOS AG	DE	P2007,0817	6992261.5.5	22-Oct-1999		EP998037	Low loss surface acoustic wave filter on a cut-optimised quartz substrate	Granted
B. EPCOS AG	EP	P2007,0817	99402626.8	22-Oct-1999		EP0998037	Low loss surface acoustic wave filter on a cut-optimised quartz substrate	National
B. EPCOS AG	FI	P2007,0817	99402626.8	22-Oct-1999		EP0998037	Low loss surface acoustic wave filter on a cut-optimised quartz substrate	Abandoned
B. EPCOS AG	FR	P2007,0817	99402626.8	22-Oct-1999		EP0998037	Low loss surface acoustic wave filter on a cut-optimised quartz substrate	Granted
B. EPCOS AG	FR	P2007,0817	9813665	30-Oct-1998		FR2785473	Low loss surface acoustic wave filter on a cut-optimised quartz substrate	Lapsed
B. EPCOS AG	JP	P2007,0817	1999-0308865	29-Oct-1999		4479026	LOW LOSS SURFACE ACOUSTIC WAVE FILTER ON CRYSTAL SUBSTRATE HAVING OPTIMIZED CUT	Granted
B. EPCOS AG	KR	P2007,0817	10-1999-0047154	28-Oct-1999		10-0712413	LOW LOSS SURFACE SOUND WAVE FILTER ON QUARTZ SUBSTRATE HAVING OPTIMIZED CUTTER	Granted
B. EPCOS AG	SG	P2007,0817	19990005193	19-Oct-1999			LOW-LOSS SURFACE ACOUSTIC WAVE FILTER ON QUARTZ SUBSTRATE WITH OPTIMIZED CUT	Abandoned
B. EPCOS AG	US	P2007,0817	09/420,942	19-Oct-1999		6,316,861	LOW-LOSS SURFACE ACOUSTIC WAVE FILTER ON QUARTZ SUBSTRATE WITH OPTIMIZED CUT	Granted
B. EPCOS AG	CH	P2007,0835	00966253.7	28-Sep-2000		EP1222735	INTERFACE ACOUSTIC WAVE FILTER, ESPECIALLY FOR WIRELESS CONNECTIONS	Abandoned
B. EPCOS AG	DE	P2007,0835	60008569.4	28-Sep-2000		EP1222735	INTERFACE ACOUSTIC WAVE FILTER, ESPECIALLY FOR WIRELESS CONNECTIONS	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	EP	P2007,0835	00966253.7	28-Sep-2000		EP1222735	INTERFACE ACOUSTIC WAVE FILTER, ESPECIALLY FOR WIRELESS CONNECTIONS	OP-Pending
B. EPCOS AG	FR	P2007,0835	00966253.7	28-Sep-2000		EP1222735	INTERFACE ACOUSTIC WAVE FILTER, ESPECIALLY FOR WIRELESS CONNECTIONS	Abandoned
B. EPCOS AG	FR	P2007,0835	9912992	15-Oct-1999		FR2799906	Mobile telephone communications/remote car door opening acoustic filter construction having two solid structures with exponentially decreasing acoustic power perpendicular central interdigital acoustic region and single plane propagating	Granted
B. EPCOS AG	JP	P2007,0835	2001-531203	28-Sep-2000		4820037	Mobile telephone communications/remote car door opening acoustic filter construction having two solid structures with exponentially decreasing acoustic power perpendicular central interdigital acoustic region and single plane propagating	Granted
B. EPCOS AG	US	P2007,0835	10/110,403	28-Sep-2000		6,737,941	INTERFACE ACOUSTIC WAVES FILTER, ESPECIALLY FOR WIRELESS CONNECTIONS	Granted
B. EPCOS AG	WO	P2007,0835	PCT/FR2000/002727	28-Sep-2000			INTERFACE ACOUSTIC WAVE FILTER, ESPECIALLY FOR WIRELESS CONNECTIONS	Expired
B. EPCOS AG	DE	P2007,0917	69920407.0	7-Dec-1999		EP1053592	ENCAPSULATED SURFACE WAVE COMPONENT AND COLLECTIVE METHOD FOR MAKING SAME	Abandoned
B. EPCOS AG	EP	P2007,0917	99958258.8	7-Dec-1999		EP1053592	ENCAPSULATED SURFACE WAVE COMPONENT AND COLLECTIVE METHOD FOR MAKING SAME	Granted
B. EPCOS AG	FR	P2007,0917	9815478	8-Dec-1999			COMPOSANT A ONDES DE SURFACE ENCAPSULE ET PROCEDE DE FABRICATON COLLECTIVE	Lapsed
B. EPCOS AG	FR	P2007,0917	99958258.8	7-Dec-1999		EP1053592	ENCAPSULATED SURFACE WAVE COMPONENT AND COLLECTIVE METHOD FOR MAKING SAME	Granted
B. EPCOS AG	HK	P2007,0917	1106831.9	27-Sep-2001		HK1036367	Encapsulated surface wave component and method for making same	Abandoned
B. EPCOS AG	JP	P2007,0917	2000-587438	7-Dec-1999			COMPOSANT A ONDES DE SURFACE ENCAPSULE ET PROCEDE DE FABRICATON COLLECTIVE	Abandoned
B. EPCOS AG	KR	P2007,0917	10-2000-7008466	7-Dec-1999			ENCAPSULATED SURFACE WAVE COMPONENT AND COLLECTIVEMETHOD FOR MAKING SAME	Abandoned

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	US	P2007,0917	09/601,327	12-Jul-1999			Encapsulated surface wave component and collective method for making same	Abandoned
B. EPCOS AG	WO	P2007,0917	PCT/FR1999/003036	7-Dec-1999			ENCAPSULATED SURFACE WAVE COMPONENT AND COLLECTIVE METHOD FOR MAKING SAME	Abandoned
B. EPCOS AG	CA	P2007,0920	2280422	13-Aug-1999		2280422	TWO-CHANNEL ACOUSTIC FILTER WITH REJECTION COMPENSATION	Abandoned
B. EPCOS AG	CN	P2007,0920	99111537.6	20-Aug-1999		ZL99111537.6	Sound wave filter with two different suppressing compensation channels	Granted
B. EPCOS AG	DE	P2007,0920	69933346.6	10-Aug-1999		EP0982859	Acoustic filter with two different channels and rejection compensation	Granted
B. EPCOS AG	EP	P2007,0920	99402034.5	10-Aug-1999		EP0982859	Acoustic filter with two different channels and rejection compensation	Granted
B. EPCOS AG	FI	P2007,0920	99402034.5	10-Aug-1999		EP0982859	Acoustic filter with two different channels and rejection compensation	Lapsed
B. EPCOS AG	FR	P2007,0920	9810650	21-Aug-1998		FR2782568	Acoustic filter with two different channels and rejection compensation	Granted
B. EPCOS AG	FR	P2007,0920	99402034.5	10-Aug-1999		EP0982859	Acoustic filter with two different channels and rejection compensation	Lapsed
B. EPCOS AG	GB	P2007,0920	99402034.5	10-Aug-1999		EP0982859	Acoustic filter with two different channels and rejection compensation	Granted
B. EPCOS AG	IT	P2007,0920	99402034.5	10-Aug-1999		EP0982859	Acoustic filter with two different channels and rejection compensation	Lapsed
B. EPCOS AG	JP	P2007,0920	1999-233946	20-Aug-1999		4253939	ACOUSTIC FILTER HAVING TWO DIFFERENT CHANNELS FOR COMPENSATION OF BLOCKING CHARACTERISTIC	Granted
B. EPCOS AG	KR	P2007,0920	10-1999-0034154	18-Aug-1999		10-0698818	ACOUSTIC FILTER WITH TWO DIFFERENT CHANNELS WITH COMPENSATION FOR REJECTION	Granted
B. EPCOS AG	SE	P2007,0920	99402034.5	10-Aug-1999		EP0982859	Acoustic filter with two different channels and rejection compensation	Lapsed
B. EPCOS AG	SG	P2007,0920	9903984.4	17-Aug-1999		110996	ACOUSTIC FILTER WITH TWO DIFFERENT CHANNELS WITH COMPENSATION FOR REJECTION	Abandoned
B. EPCOS AG	US	P2007,0920	09/374,510	16-Aug-1999		6,313,717	ACOUSTIC FILTER WITH TWO DIFFERENT CHANNELS WITH COMPENSATION FOR REJECTION	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Casenameber	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	CA	P2007,0924	2263358	5-Jun-1998			COMPONENT WITH SURFACE ACOUSTIC WAVES ELIMINATING PYROELECTRIC INTERFACE	Abandoned
B. EPCOS AG	CN	P2007,0924	98800798.3	5-Jun-1998			Component with surface acoustic waves eliminating pyroelectric interface	Abandoned
B. EPCOS AG	EP	P2007,0924	98929504.3	5-Jun-1998			COMPONENT WITH SURFACE ACOUSTIC WAVES ELIMINATING PYROELECTRIC INTERFACE	Withdrawn
B. EPCOS AG	FR	P2007,0924	9707183	10-Jun-1997		FR2764440	COMPOSANT A ONDES ACOUSTIQUES DE SURFACE AVEC SUPPRESSION DE PERTURBATION PYROELECTRIQUE	Granted
B. EPCOS AG	JP	P2007,0924	1999-501753	5-Jun-1998			COMPOSANT A ONDES ACOUSTIQUES DE SURFACE AVEC SUPPRESSION DE PERTURBATION PYROELECTRIQUE	Abandoned
B. EPCOS AG	KR	P2007,0924	10-1999-7001079	5-Jun-1998			Component with surface acoustic waves eliminating pyroelectric interface	Withdrawn
B. EPCOS AG	US	P2007,0924	09/147,666	5-Jun-1998			COMPONENT WITH SURFACE ACOUSTIC WAVES ELIMINATING PYROELECTRIC INTERFACE	Abandoned
B. EPCOS AG	WO	P2007,0924	PCT/FR1998/001155	5-Jun-1998			COMPONENT WITH SURFACE ACOUSTIC WAVES ELIMINATING PYROELECTRIC INTERFACE	Expired
B. EPCOS AG	CA	P2007,0925	2319690	2-Feb-1999			FILTER WITH SURFACE ACOUSTIC WAVE RESONATORS	Abandoned
B. EPCOS AG	CN	P2007,0925	99802566.6	2-Feb-1999		ZL99802566.6	Filter with surface acoustic wave resonator	Lapsed
B. EPCOS AG	DE	P2007,0925	69901426.3	2-Feb-1999		EP1053593	FILTER WITH SURFACE ACOUSTIC WAVE RESONATORS	Granted
B. EPCOS AG	EP	P2007,0925	99901689.2	2-Feb-1999		EP1053593	FILTER WITH SURFACE ACOUSTIC WAVE RESONATORS	Granted
B. EPCOS AG	FI	P2007,0925	99901689.2	2-Feb-1999		EP1053593	FILTER WITH SURFACE ACOUSTIC WAVE RESONATORS	Lapsed
B. EPCOS AG	FR	P2007,0925	99901689.2	2-Feb-1999		EP1053593	FILTER WITH SURFACE ACOUSTIC WAVE RESONATORS	Lapsed
B. EPCOS AG	FR	P2007,0925	9801419	6-Feb-1998		FR2774826	FILTRE A RESONATEURS A ONDES ACOUSTIQUES DE SURFACE	Abandoned
B. EPCOS AG	GB	P2007,0925	99901689.2	2-Feb-1999		EP1053593	FILTER WITH SURFACE ACOUSTIC WAVE RESONATORS	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Count ¹	Family Classnumber	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	HK	P2007,0925	01106536.7	15-Sep-2001		HK1053969	FILTER WITH SURFACE ACOUSTIC WAVE RESONATORS	Lapsed
B. EPCOS AG	IT	P2007,0925	99901689.2	2-Feb-1999		EP1053593	FILTER WITH SURFACE ACOUSTIC WAVE RESONATORS	Lapsed
B. EPCOS AG	JP	P2007,0925	2000-530978	2-Feb-1999			FILTRE A RESONATEURS A ONDES ACOUSTIQUES DE SURFACE	Withdrawn
B. EPCOS AG	KR	P2007,0925	10-2000-7008408	2-Feb-1999			FILTER WITH SURFACE ACOUSTIC WAVE RESONATORS	Lapsed
B. EPCOS AG	SE	P2007,0925	99901689.2	2-Feb-1999		EP1053593	FILTER WITH SURFACE ACOUSTIC WAVE RESONATORS	Lapsed
B. EPCOS AG	US	P2007,0925	09/601,321	2-Feb-1999		6,344,705	FILTER WITH SURFACE ACOUSTIC WAVE RESONATORS	Expired
B. EPCOS AG	WO	P2007,0925	PCT/FR1999/000214	2-Feb-1999			FILTER WITH SURFACE ACOUSTIC WAVE RESONATORS	Expired
B. EPCOS AG	CA	P2007,0934	2236764	31-Oct-1996		CA2236764	SURFACE ACOUSTIC WAVE TRANSDUCER DRIVEN IN DIFFERENTIAL MODE	Abandoned
B. EPCOS AG	DE	P2007,0934	69605321.7	31-Oct-1996		EP0862813	DIFFERENTIAL-DRIVEN SURFACE ACOUSTIC WAVE TRANSDUCER	Expired
B. EPCOS AG	EP	P2007,0934	96937377.8	31-Oct-1996		EP0862813	DIFFERENTIAL-DRIVEN SURFACE ACOUSTIC WAVE TRANSDUCER	Granted
B. EPCOS AG	FI	P2007,0934	96937377.8	31-Oct-1996		EP0862813	DIFFERENTIAL-DRIVEN SURFACE ACOUSTIC WAVE TRANSDUCER	Lapsed
B. EPCOS AG	FR	P2007,0934	9513132	7-Nov-1995		FR2740908	DIFFERENTIAL-DRIVEN SURFACE ACOUSTIC WAVE TRANSDUCER	Lapsed
B. EPCOS AG	FR	P2007,0934	96937377.8	31-Oct-1996		EP0862813	DIFFERENTIAL-DRIVEN SURFACE ACOUSTIC WAVE TRANSDUCER	Lapsed
B. EPCOS AG	GB	P2007,0934	96937377.8	31-Oct-1996		EP0862813	DIFFERENTIAL-DRIVEN SURFACE ACOUSTIC WAVE TRANSDUCER	Lapsed
B. EPCOS AG	IT	P2007,0934	96937377.8	31-Oct-1996		EP0862813	DIFFERENTIAL-DRIVEN SURFACE ACOUSTIC WAVE TRANSDUCER	Lapsed
B. EPCOS AG	KR	P2007,0934	10-1998-0703404	31-Oct-1996		10-0382382	DIFFERENTIAL-DRIVEN SURFACE ACOUSTIC WAVE TRANSDUCER	Abandoned
B. EPCOS AG	LI=CH	P2007,0934	96937377.8	31-Oct-1996		EP0862813	DIFFERENTIAL-DRIVEN SURFACE ACOUSTIC WAVE TRANSDUCER	Lapsed
B. EPCOS AG	SE	P2007,0934	96937377.8	31-Oct-1996		EP0862813	DIFFERENTIAL-DRIVEN SURFACE ACOUSTIC WAVE TRANSDUCER	Lapsed

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	US	P2007,0934	09/068,122	31-Oct-1996		6,011,344	SURFACE ACOUSTIC WAVE TRANSDUCER DRIVEN IN DIFFERENTIAL MODE	Expired
B. EPCOS AG	WO	P2007,0934	PCT/FR1996/001717	31-Oct-1996			DIFFERENTIAL-DRIVEN SURFACE ACOUSTIC WAVE TRANSDUCER	Expired
B. EPCOS AG	FR	P2007,0955	15989	8-Dec-2000		FR2818051	SURFACE ACOUSTIC WAVES FILTERS WITH OPTIMISED SYMMETRY	Granted
B. EPCOS AG	WO	P2007,0955	PCT/FR2001/003885	7-Dec-2001			SURFACE ACOUSTIC WAVES FILTERS WITH OPTIMISED SYMMETRY	Expired
B. EPCOS AG	EP	P2007,0956	02/08440.9	1-Mar-2002			SURFACE ACOUSTIC WAVE FILTER	Abandoned
B. EPCOS AG	FR	P2007,0956	103041	6-Mar-2001		FR2821997	SURFACE ACOUSTIC WAVE FILTER	Granted
B. EPCOS AG	JP	P2007,0956	2002-570405	1-Mar-2002			SURFACE ACOUSTIC WAVE FILTER	Withdrawn
B. EPCOS AG	KR	P2007,0956	10-2003-7011627	1-Mar-2002			SURFACE ACOUSTIC WAVE FILTER	Withdrawn
B. EPCOS AG	US	P2007,0956	10/469,813	1-Mar-2002		6,940,368	SURFACE ACOUSTIC WAVE FILTER	Granted
B. EPCOS AG	WO	P2007,0956	PCT/FR2002/000760	1-Mar-2002			SURFACE ACOUSTIC WAVE FILTER	National
B. EPCOS AG	FR	P2007,0965	109753	20-Jul-2001		FR2827720	Surface acoustic wave device with low surface loss made up of a piezoelectric substrate, an assembly of electrodes and coated with a thin layer of dielectric material	Granted
B. EPCOS AG	WO	P2007,0965	PCT/FR2002/002587	19-Jul-2002			LOW-LOSS SURFACE ACOUSTIC WAVE DEVICE COMPRISING DIELECTRIC LAYER WITH HIGH PERMITTIVITY	Expired
B. EPCOS AG	CN	P2007,0967	03806392.1	11-Mar-2003		ZL03806392.1	Interface acoustic wave device made of lithium tantalate	Abandoned
B. EPCOS AG	DE	P2007,0967	60301794.0	11-Mar-2003		EP1500191	DEVICE WITH INTERFACE SOUND WAVES MADE OF LITHIUM TANTALATE	Granted
B. EPCOS AG	EP	P2007,0967	03752668.8	11-Mar-2003		EP1500191	DEVICE WITH INTERFACE SOUND WAVES MADE OF LITHIUM TANTALATE	Granted
B. EPCOS AG	FR	P2007,0967	03752668.8	11-Mar-2003		EP1500191	DEVICE WITH INTERFACE SOUND WAVES MADE OF LITHIUM TANTALATE	Lapsed
B. EPCOS AG	FR	P2007,0967	203385	19-Mar-2002		FR2837636	DISPOSITIF A ONDES ACOUSTIQUES D'INTERFACE EN TANTALATE DE LITHIUM	Abandoned
B. EPCOS AG	JP	P2007,0967	2004-506179	11-Mar-2003			Acoustic wave interface filters having two section optimally cut Lithium Tantalate crystalline substrate material with assembled interface zone propagating acoustic waves/forming electroacoustic transducers	Abandoned

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	KR	P2007,0967	10-2004-7014759	11-Mar-2003		10-0902802	DEVICE WITH INTERFACE SOUND WAVES MADE OF LITHIUM TANTALATE	Abandoned
B. EPCOS AG	US	P2007,0967	10/507,909	11-Mar-2003		7,126,251	INTERFACE ACOUSTIC WAVE DEVICE MADE OF LITHIUM TANTALATE	Granted
B. EPCOS AG	WO	P2007,0967	PCT/FR2003/000779	11-Mar-2003			DEVICE WITH INTERFACE SOUND WAVES MADE OF LITHIUM TANTALATE	Expired
B. EPCOS AG	FR	P2007,0968	208471	5-Jul-2002		FR2842044	FILTRE A ONDES ACOUSTIQUES DE SURFACE A DOUBLE MODE SYMETRIQUE OPTIMISE	Granted
B. EPCOS AG	WO	P2007,0968	PCT/FR2003/002081	4-Jul-2003			SURFACE ACOUSTIC WAVE FILTER WITH OPTIMISED DOUBLE SYMMETRIC MODE	Expired
B. EPCOS AG	CA	P2007,0981	2230886	20-Sep-1996			SURFACE ACOUSTIC WAVE FILTER UTILIZING THE COUPLING OF THREE ACOUSTIC PATHWAYS	Abandoned
B. EPCOS AG	CH	P2007,0981	96932623.0	20-Sep-1996		EP0852846	SURFACE ACOUSTIC WAVE FILTER USING THE COUPLING OF THREE ACOUSTIC CHANNELS	Lapsed
B. EPCOS AG	DE	P2007,0981	69603280.5	20-Sep-1996		EP0852846	SURFACE ACOUSTIC WAVE FILTER USING THE COUPLING OF THREE ACOUSTIC CHANNELS	Lapsed
B. EPCOS AG	EP	P2007,0981	96932623.0	20-Sep-1996		EP0852846	SURFACE ACOUSTIC WAVE FILTER USING THE COUPLING OF THREE ACOUSTIC CHANNELS	Granted
B. EPCOS AG	FI	P2007,0981	96932623.0	20-Sep-1996		EP0852846	SURFACE ACOUSTIC WAVE FILTER USING THE COUPLING OF THREE ACOUSTIC CHANNELS	Lapsed
B. EPCOS AG	FR	P2007,0981	9511267	26-Sep-1995		FR2739232	SURFACE ACOUSTIC WAVE FILTER USING THE COUPLING OF THREE ACOUSTIC CHANNELS	Abandoned
B. EPCOS AG	FR	P2007,0981	96932623.0	20-Sep-1996		EP0852846	SURFACE ACOUSTIC WAVE FILTER USING THE COUPLING OF THREE ACOUSTIC CHANNELS	Expired
B. EPCOS AG	GB	P2007,0981	96932623.0	20-Sep-1996		EP0852846	SURFACE ACOUSTIC WAVE FILTER USING THE COUPLING OF THREE ACOUSTIC CHANNELS	Lapsed
B. EPCOS AG	IT	P2007,0981	96932623.0	20-Sep-1996		EP0852846	SURFACE ACOUSTIC WAVE FILTER USING THE COUPLING OF THREE ACOUSTIC CHANNELS	Lapsed

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Classnumber	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	KR	P2007,0981	10-1998-0702207	20-Sep-1996		10-0426830	SURFACE ACOUSTIC WAVE FILTER USING THE COUPLING OF THREE ACOUSTIC CHANNELS	Lapsed
B. EPCOS AG	LI	P2007,0981	96932623.0	20-Sep-1996		EP0852846	SURFACE ACOUSTIC WAVE FILTER USING THE COUPLING OF THREE ACOUSTIC CHANNELS	Lapsed
B. EPCOS AG	SE	P2007,0981	96932623.0	20-Sep-1996		EP0852846	SURFACE ACOUSTIC WAVE FILTER USING THE COUPLING OF THREE ACOUSTIC CHANNELS	Lapsed
B. EPCOS AG	US	P2007,0981	09/043,570	20-Sep-1996		6,043,726	SURFACE ACOUSTIC WAVE FILTER UTILIZING THE COUPLING OF THREE ACOUSTIC PATHWAYS	Abandoned
B. EPCOS AG	WO	P2007,0981	PCT/FR1996/001469	20-Sep-1996			SURFACE ACOUSTIC WAVE FILTER USING THE COUPLING OF THREE ACOUSTIC CHANNELS	Abandoned
B. EPCOS AG	CN	P2007,1049	02825678.6	13-Dec-2002			Method for realizing surface acoustic wave filter arrangements and filter arrangement obtained in accordance to this method	Abandoned
B. EPCOS AG	EP	P2007,1049	01403348.4	21-Dec-2001			Method for realising surface acoustic wave filter arrangements and filter arrangement obtained in accordance to this method	Abandoned
B. EPCOS AG	KR	P2007,1049	10-2004-7009411	13-Dec-2002			Surface acoustic wave filter	Abandoned
B. EPCOS AG	US	P2007,1049	10/499,589	13-Dec-2002		7,250,832	METHOD FOR REALIZING SURFACE ACOUSTIC WAVE FILTER ARRANGEMENTS AND FILTER ARRANGEMENT OBTAINED IN ACCORDANCE TO THIS METHOD	Granted
B. EPCOS AG	WO	P2007,1049	PCT/IB2002/005732	13-Dec-2002			METHOD FOR REALIZING SURFACE ACOUSTIC WAVE FILTER ARRANGEMENTS AND FILTER ARRANGEMENT OBTAINED IN ACCORDANCE TO THIS METHOD	Expired
B. EPCOS AG	FR	P2007,1050	308107	3-Jul-2003		FR2857156	Fabrication of electronic components with a reduced thickness using a support and a deformable adhesive film and thinning by polishing, notably for acoustic wave devices	Granted
B. EPCOS AG	WO	P2007,1050	PCT/FR2004/001642	28-Jun-2004			METHOD FOR PRODUCING REDUCED-THICKNESS ELECTRONIC COMPONENTS	Expired
B. EPCOS AG	DE	P2007,1073	102007050606.8	23-Oct-2007		DE102007050606	Schaltungsanordnung für eine Mobilfunkeinrichtung und Verfahren zum Betrieb	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	JP	P2007,1073	2010-0530401	15-Oct-2008		5356394	Sealtungsanordnung für eine Mobilfunkeinrichtung und Verfahren zum Betrieb	Granted
B. EPCOS AG	US	P2007,1073	12/765,589	22-Apr-2010		8,891,412	Circuit Configuration for a Mobile Radio Device and Method for Operating the Same	Granted
B. EPCOS AG	WO	P2007,1073	PCT/EP2008/063899	15-Oct-2008			CIRCUIT CONFIGURATION FOR A MOBILE RADIO DEVICE AND METHOD FOR OPERATING THE SAME	National
B. EPCOS AG	DE	P2007,1085	102007051314.5	26-Oct-2007		DE102007051314	Electro-acoustic component has substrate made of quartz-single crystal for three Euler angle girts, where sliding surface is provided for acoustic wave	Granted
B. EPCOS AG	DE	P2007,1218	102007058951.6	7-Dec-2007			MEMS Package	ExamPub
B. EPCOS AG	JP	P2007,1218	2010-0536462	4-Dec-2008		5574970	MEMS Package	Granted
B. EPCOS AG	US	P2007,1218	12/745,613	4-Dec-2008		8,674,498	MEMS PACKAGE AND METHOD FOR THE PRODUCTION THEREOF	Granted
B. EPCOS AG	WO	P2007,1218	PCT/EP2008/066823	4-Dec-2008			MEMS PACKAGE AND METHOD FOR THE PRODUCTION THEREOF	National
B. EPCOS AG	CN	P2008,0032	200980101905.5	12-Jan-2009		ZL200980101905.5	Front-end circuit	Granted
B. EPCOS AG	DE	P2008,0032	102008003820.2	10-Jan-2008		DE102008003820	FRONT-END CIRCUIT	Granted
B. EPCOS AG	US	P2008,0032	12/747,276	12-Jan-2009			Front-End Circuit	Abandoned
B. EPCOS AG	WO	P2008,0032	PCT/DE2009/000019	12-Jan-2009			FRONT-END CIRCUIT	National
B. EPCOS AG	CN	P2008,0295	200980110117.2	16-Mar-2009		ZL200980110117.2	Saw filter	Granted
B. EPCOS AG	DE	P2008,0295	602008009727.7	17-Mar-2008		EP2104229	SAW transversal filter	Granted
B. EPCOS AG	EP	P2008,0295	08152842.4	17-Mar-2008		EP2104229	SAW transversal filter	National
B. EPCOS AG	JP	P2008,0295	2011-0500092	16-Mar-2009		5496998	SAW transversal filter	Granted
B. EPCOS AG	US	P2008,0295	12/844,171	27-Jul-2010		8,049,582	TRANSVERSAL FILTER	Granted
B. EPCOS AG	WO	P2008,0295	PCT/EP2009/001889	16-Mar-2009			SAW FILTER	National
B. EPCOS AG	DE	P2008,0375	102008016613.8	1-Apr-2008		DE102008016613	METHOD FOR PRODUCING AN ELECTRIC COMPONENT COMPRISING AT LEAST ONE DIELECTRIC LAYER AND ELECTRIC	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Count ¹	Family Classnumber	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
							COMPONENT COMPRISING AT LEAST ONE DIELECTRIC LAYER	
B. EPCOS AG	JP	P2008,0375	2011-502379	1-Apr-2009		5406274	METHOD FOR PRODUCING AN ELECTRIC COMPONENT COMPRISING AT LEAST ONE DIELECTRIC LAYER, AND ELECTRIC COMPONENT COMPRISING AT LEAST ONE DIELECTRIC LAYER	Granted
B. EPCOS AG	US	P2008,0375	14/290,705	23-Aug-2010			Electricacoustic Component with Structured Conductor and Dielectric Layer	Appealed
B. EPCOS AG	US	P2008,0375	12/861,184	23-Aug-2010		8,756,796	Method for Producing an Electric Component	Granted
B. EPCOS AG	WO	P2008,0375	PCT/EP2009/053883	1-Apr-2009			METHOD FOR PRODUCING AN ELECTRIC COMPONENT COMPRISING AT LEAST ONE DIELECTRIC LAYER, AND ELECTRIC COMPONENT COMPRISING AT LEAST ONE DIELECTRIC LAYER	National
B. EPCOS AG	DE	P2008,0465	102008020597.4	24-Apr-2008			Schaltungsanordnung	ExamPub
B. EPCOS AG	JP	P2008,0465	2011-505516	23-Apr-2009		5624978	Schaltungsanordnung	Granted
B. EPCOS AG	US	P2008,0465	12/900,208	7-Oct-2010		8,031,035	CIRCUIT CONFIGURATION	Granted
B. EPCOS AG	WO	P2008,0465	PCT/EP2009/054903	23-Apr-2009			CIRCUIT ARRANGEMENT	National
B. EPCOS AG	DE	P2008,0539	102008023374.9	13-May-2008		DE102008023374	Filter circuit, has reactance element electrically switched between connections, and base switching elements electrically switched over inputs and outputs in signal path in parallel manner	Granted
B. EPCOS AG	DE	P2008,0584	102008025202.6	27-May-2008		DE102008025202	HERMETTICALLY SEALED HOUSING FOR ELECTRONIC COMPONENTS AND MANUFACTURING METHOD	Granted
B. EPCOS AG	JP	P2008,0584	2011-510989	26-May-2009			HERMETTICALLY SEALED HOUSING FOR ELECTRONIC COMPONENTS AND MANUFACTURING METHOD	Abandoned
B. EPCOS AG	US	P2008,0584	12/993,299	26-May-2009		8,759,677	HERMETTICALLY SEALED HOUSING FOR ELECTRONIC COMPONENTS AND MANUFACTURING METHOD	Granted
B. EPCOS AG	WO	P2008,0584	PCT/EP2009/056377	26-May-2009			HERMETTICALLY SEALED HOUSING FOR ELECTRONIC COMPONENTS AND MANUFACTURING METHOD	National
B. EPCOS AG	DE	P2008,0588	102008024898.3	28-May-2008		DE102008024898	Broadband high frequency-power splitter circuit, has secondary paths that are coupled to primary path over	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
							each pair of coupled channels, where secondary paths are electrically and conductively connected to electrode of capacitive element	
B. EPCOS AG	DE	P2008,0728	102008030842.0	30-Jun-2008			Integrated module for use in micro-electro-mechanical system, comprises plastic body made of thermoplastic with even lower surface, and recess is provided in lower surface of plastic body	ExamPub
B. EPCOS AG	DE	P2008,0813	102008033704.8	18-Jul-2008		DE102008033704	ELECTRONIC COMPONENT	Granted
B. EPCOS AG	WO	P2008,0813	PCT/EP2009/059084	15-Jul-2009			ELECTRONIC COMPONENT	Abandoned
B. EPCOS AG	DE	P2008,0923	102008044845.1	28-Aug-2008		DE102008044845	Bias-Netzwerk	Granted
B. EPCOS AG	US	P2008,0923	12/545,378	21-Aug-2009		9,385,681	Bias Network	Granted
B. EPCOS AG	DE	P2008,0932	102008045346.3	1-Sep-2008			Duplexer und Verfahren zum Erhöhen der Isolation zwischen zwei Filtern	ExamPub
B. EPCOS AG	JP	P2008,0932	2011-524337	21-Aug-2009		5401549	Duplexer und Verfahren zum Erhöhen der Isolation zwischen zwei Filtern	Granted
B. EPCOS AG	JP	P2008,0932	2011-524336	21-Aug-2009		5662935	Duplexer und Verfahren zum Erhöhen der Isolation zwischen zwei Filtern	Granted
B. EPCOS AG	US	P2008,0932	14/466,885	24-Feb-2011			Duplexer and Method for Increasing the Isolation Between Two Filters	Allowed
B. EPCOS AG	US	P2008,0932	13/033,857	24-Feb-2011		9,160,306	Duplexer and Method for Increasing the Isolation Between Two Filters	Granted
B. EPCOS AG	US	P2008,0932	13/024,943	10-Feb-2011		9,214,920	Antenna Matching Circuit	Granted
B. EPCOS AG	WO	P2008,0932	PCT/EP2009/060841	21-Aug-2009			DUPLEXER AND METHOD FOR INCREASING THE ISOLATION BETWEEN TWO FILTERS	National
B. EPCOS AG	WO	P2008,0932	PCT/EP2009/060839	21-Aug-2009			ANTENNA MATCHING CIRCUIT	National
B. EPCOS AG	EP	P2008,1226	08166350.2	10-Oct-2008			Circuit for generating a control current	Allowed
B. EPCOS AG	JP	P2008,1226	2011-530503	9-Oct-2009		5547202	Circuit for generating a control current	Granted
B. EPCOS AG	US	P2008,1226	13/040,733	4-Mar-2011		8,258,858	CIRCUIT FOR GENERATING A CONTROL CURRENT	Granted
B. EPCOS AG	WO	P2008,1226	PCT/EP2009/063212	9-Oct-2009			CIRCUIT FOR GENERATING A CONTROL CURRENT	National

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	DE	P2008, 1241	102008052222.8	17-Oct-2008			Antennen Duplexer mit hoher GPS-Unterdrückung	ExamPub
B. EPCOS AG	JP	P2008, 1241	2015-192982	15-Oct-2009			ANTENNA DUPLERXER WITH HIGH GPS SUPPRESSION	Exam
B. EPCOS AG	JP	P2008, 1241	2011-531493	15-Oct-2009		5847583	ANTENNA DUPLERXER WITH HIGH GPS SUPPRESSION	Granted
B. EPCOS AG	US	P2008, 1241	13/122,816	15-Oct-2009		8,981,872	Antenna Duplexer with High GPS Suppression	Granted
B. EPCOS AG	WO	P2008, 1241	PCT/EP2009/063510	15-Oct-2009			ANTENNA DUPLERXER WITH HIGH GPS SUPPRESSION	National
B. EPCOS AG	EP	P2008, 1250	08167538.1	24-Oct-2008			Pap bipolar transistor with lateral collector and method of production	ExamPub
B. EPCOS AG	JP	P2008, 1250	2011-532639	22-Oct-2009		5336599	Pap bipolar transistor with lateral collector and method of production	Granted
B. EPCOS AG	US	P2008, 1250	13/124,091	22-Oct-2009		8,410,572	Bipolar Transistor with Emitter and/or Collector Contact Structure forming a Schottky Contact and Method of Production	Granted
B. EPCOS AG	WO	P2008, 1250	PCT/EP2009/063921	22-Oct-2009			BIPOLAR TRANSISTOR WITH AN N-TYPE BASE AND METHOD OF PRODUCTION	National
B. EPCOS AG	DE	P2008, 1254	102009051627.1	2-Nov-2009		DE102009051627	MULTILAYER AMPLIFIER MODULE	Granted
B. EPCOS AG	JP	P2008, 1254	2009-255558	6-Nov-2009		6008459	MULTILAYER AMPLIFIER MODULE	Granted
B. EPCOS AG	US	P2008, 1254	12/266,733	7-Nov-2008		7,804,365	MULTILAYER AMPLIFIER MODULE	Granted
B. EPCOS AG	DE	P2008, 1308	602008021502.4	13-Nov-2008		EP2187432	P-Feldeffekt-Transistor und Herstellungsverfahren	Granted
B. EPCOS AG	EP	P2008, 1308	08169044.8	13-Nov-2008		EP2187432	P-type field-effect transistor and method of production	National
B. EPCOS AG	JP	P2008, 1308	2011-536015	12-Nov-2009		5588452	P-type field-effect transistor and method of production	Granted
B. EPCOS AG	US	P2008, 1308	13/127,318	12-Nov-2009		8,598,627	P-TYPE FIELD-EFFECT TRANSISTOR AND METHOD OF PRODUCTION	Granted
B. EPCOS AG	WO	P2008, 1308	PCT/EP2009/065067	12-Nov-2009			P-TYPE FIELD-EFFECT TRANSISTOR AND METHOD OF PRODUCTION	National
B. EPCOS AG	DE	P2008, 1402	502009011445.1	11-Nov-2009		EP2294701	FRONT END MODULE AND METHOD FOR TESTING A FRONT END MODULE	Granted
B. EPCOS AG	DE	P2008, 1402	102008061474.2	10-Dec-2008			FRONT END MODULE AND METHOD FOR TESTING A FRONT END MODULE	ExamPub

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	EP	P2008,1402	09774645.7	11-Nov-2009		EP2294701	FRONT END MODULE AND METHOD FOR TESTING A FRONT END MODULE	Granted
B. EPCOS AG	JP	P2008,1402	2011-525578	11-Nov-2009		5117617	FRONT END MODULE AND METHOD FOR TESTING A FRONT END MODULE	Granted
B. EPCOS AG	US	P2008,1402	13/154,096	6-Jun-2011			Front-End Module and Method for Testing a Front-End Module	Published
B. EPCOS AG	WO	P2008,1402	PCT/EP2009/065007	11-Nov-2009			FRONT END MODULE AND METHOD FOR TESTING A FRONT END MODULE	National
B. EPCOS AG	DE	P2008,1429	102008062605.8	17-Dec-2008			Bauelement, welches mit akustischen Wellen arbeitet, und Verfahren zu dessen Herstellung	ExamPub
B. EPCOS AG	US	P2008,1429	13/139,756	16-Dec-2009		8,674,583	CONSTRUCTION ELEMENT THAT OPERATES WITH ACOUSTIC WAVES, AND METHOD FOR THE MANUFACTURE THEREOF	Granted
B. EPCOS AG	WO	P2008,1429	PCT/EP2009/067306	16-Dec-2009			CONSTRUCTION ELEMENT THAT OPERATES WITH ACOUSTIC WAVES, AND METHOD FOR THE MANUFACTURE THEREOF	National
B. EPCOS AG	DE	P2008,1440	102008063740.8	18-Dec-2008		DE102008063740	Surface wave component, has converter arranged between reflectors, and trim electrode arranged in acoustic groove of component and connected with trim capacitor in electrically conductive manner	Granted
B. EPCOS AG	DE	P2008,1457	102009003884.1	2-Jan-2009		DE102009003884	Multiplexer for high-frequency signal, has balun with unsymmetrical signal input and two signal outputs which are symmetrical to each other	Granted
B. EPCOS AG	US	P2009,0101	12/391,801	24-Feb-2009		8,291,559	PROCESS FOR ADAPTING RESONANCE FREQUENCY OF A BAW RESONATOR	Granted
B. EPCOS AG	CN	P2009,0138	201080008953.2	17-Feb-2010		ZL201080008953.2	SAW FILTER	Granted
B. EPCOS AG	DE	P2009,0138	102009009484.9	19-Feb-2009		DE102009009484	SAW FILTER	Granted
B. EPCOS AG	JP	P2009,0138	2011-550549	17-Feb-2010		5427898	SAW FILTER	Granted
B. EPCOS AG	US	P2009,0138	13/201,425	17-Feb-2010		8,823,469	SAW FILTER AND A RECEIVER FOR REMOTE KEYLESS ENTRY AND TIRE PRESSURE MONITORING SYSTEMS USING SAME	Granted
B. EPCOS AG	WO	P2009,0138	PCT/EP2010/051989	17-Feb-2010			SAW FILTER	National
B. EPCOS AG	DE	P2009,0173	102009011639.7	4-Mar-2009		DE102009011639	REACTANCE FILTER HAVING A STEEP EDGE	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	JP	P2009,0173	2011-552419	2-Mar-2010		5439507	REACTANCE FILTER HAVING A STEEP EDGE	Granted
B. EPCOS AG	KR	P2009,0173	10-2011-7023139	2-Mar-2010			REACTANCE FILTER HAVING A STEEP EDGE	Granted
B. EPCOS AG	US	P2009,0173	13/254,383	2-Mar-2010			REACTANCE FILTER HAVING A STEEP EDGE	Published
B. EPCOS AG	WO	P2009,0173	PCT/EP2010/052621	2-Mar-2010			REACTANCE FILTER HAVING A STEEP EDGE	National
B. EPCOS AG	DE	P2009,0183	102009012139.0	6-Mar-2009		DE102009012139	MODULE SUBSTRATE AND PRODUCTION METHOD	Granted
B. EPCOS AG	US	P2009,0183	12/718,823	5-Mar-2010		8,413,321	MODULE SUBSTRATE AND PRODUCTION METHOD	Granted
B. EPCOS AG	DE	P2009,0190	102009012516.7	10-Mar-2009		DE102009012516	Multilayer substrate for receiving circuit components of highly integrated module, comprises lower layer made of dielectric material with dielectric constant, and upper layer made of dielectric material with dielectric constant	Granted
B. EPCOS AG	DE	P2009,0231	102009014068.9	20-Mar-2009		DE102009014068	COMPACT HIGHLY INTEGRATED ELECTRICAL MODULE WITH INTERCONNECTION OF BAW FILTER AND BALUN CIRCUIT AND PRODUCTION METHOD	Granted
B. EPCOS AG	US	P2009,0231	12/727,393	19-Mar-2010		8,432,236	COMPACT HIGHLY INTEGRATED ELECTRICAL MODULE WITH INTERCONNECTION OF BAW FILTER AND BALUN CIRCUIT AND PRODUCTION METHOD	Granted
B. EPCOS AG	DE	P2009,0328	102009018648.4	23-Apr-2009			Frontendmodule mit Antennen-tuner	ExamPub
B. EPCOS AG	JP	P2009,0328	2012-506438	12-Apr-2010		5478713	Frontendmodule mit Antennen-tuner	Granted
B. EPCOS AG	US	P2009,0328	13/260,763	12-Apr-2010		9,142,887	Front End Module Comprising an Antenna Tuner	Granted
B. EPCOS AG	WO	P2009,0328	PCT/EP2010/054750	12-Apr-2010			FRONT END MODULE COMPRISING AN ANTENNA TUNER	National
B. EPCOS AG	DE	P2009,0329	102009018879.7	24-Apr-2009		102009018879	BOTTOM ELECTRODE FOR BULK ACOUSTIC WAVE (BAW) RESONATOR	Granted
B. EPCOS AG	WO	P2009,0329	PCT/EP2010/055199	20-Apr-2010			BOTTOM ELECTRODE FOR BULK ACOUSTIC WAVE (BAW) RESONATOR	Abandoned
B. EPCOS AG	DE	P2009,0344	102009019523.8	30-Apr-2009		DE102009019523	Method for trimming surface acoustic wave component, involves arranging structured metallization on piezoelectric substrate, where structured metallization comprises electrode fingers	Granted
B. EPCOS AG	DE	P2009,0614	602009025612.2	17-Jun-2009		EP2264900	LOW-CURRENT INVERTER CIRCUIT	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Count ¹	Family Classnumber	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	EP	P2009,0614	09162993.1	17-Jun-2009		EP2264900	LOW-CURRENT INVERTER CIRCUIT	National
B. EPCOS AG	JP	P2009,0614	2012-515460	15-Jun-2010		5579263	LOW-CURRENT INVERTER CIRCUIT	Granted
B. EPCOS AG	US	P2009,0614	13/321,128	15-Jun-2010		8,610,464	LOW-CURRENT INVERTER CIRCUIT	Granted
B. EPCOS AG	WO	P2009,0614	PCT/EP2010/058385	15-Jun-2010			LOW-CURRENT INVERTER CIRCUIT	National
B. EPCOS AG	DE	P2009,0616	602009025611.4	17-Jun-2009		EP2264899	LOW-CURRENT LOGIC-GATE CIRCUIT	Granted
B. EPCOS AG	EP	P2009,0616	09162990.7	17-Jun-2009		EP2264899	LOW-CURRENT LOGIC-GATE CIRCUIT	National
B. EPCOS AG	JP	P2009,0616	2012-515461	15-Jun-2010		5579264	LOW-CURRENT LOGIC-GATE CIRCUIT	Granted
B. EPCOS AG	US	P2009,0616	13/321,117	15-Jun-2010		8,653,854	LOW-CURRENT LOGIC-GATE CIRCUIT	Granted
B. EPCOS AG	WO	P2009,0616	PCT/EP2010/058388	15-Jun-2010			LOW-CURRENT LOGIC-GATE CIRCUIT	National
B. EPCOS AG	DE	P2009,0668	602009023063.8	22-Jun-2009		EP2270946	Low-current input buffer	Granted
B. EPCOS AG	EP	P2009,0668	09163406.3	22-Jun-2009		EP2270946	Low-current input buffer	Granted
B. EPCOS AG	JP	P2009,0668	2012-516687	21-Jun-2010		5442861	Low-current input buffer	Granted
B. EPCOS AG	US	P2009,0668	13/322,367	21-Jun-2010		8,436,663	Low-Current Input Buffer	Granted
B. EPCOS AG	WO	P2009,0668	PCT/EP2010/058743	21-Jun-2010			LOW-CURRENT INPUT BUFFER	National
B. EPCOS AG	DE	P2009,0828	102009032093.8	7-Jul-2009		102009032093	DIPLEXER CIRCUIT HAVING BALUN FUNCTIONALITY	Granted
B. EPCOS AG	WO	P2009,0828	PCT/EP2010/059653	6-Jul-2010			DIPLEXER CIRCUIT HAVING BALUN FUNCTIONALITY	Abandoned
B. EPCOS AG	DE	P2009,0843	102009032840.8	13-Jul-2009		DE102009032840	SAW FILTER CIRCUIT HAVING IMPROVED ESD RESISTANCE	Granted
B. EPCOS AG	JP	P2009,0843	2012-519995	12-Jul-2010			SAW FILTER CIRCUIT HAVING IMPROVED ESD RESISTANCE	Abandoned
B. EPCOS AG	KR	P2009,0843	10-2012-7003657	12-Jul-2010			SAW FILTER CIRCUIT HAVING IMPROVED ESD RESISTANCE	Exam
B. EPCOS AG	US	P2009,0843	13/383,071	12-Jul-2010		9,035,726	SAW Filter Circuit Having Improved ESD Resistance	Granted
B. EPCOS AG	WO	P2009,0843	PCT/EP2010/059986	12-Jul-2010			SAW FILTER CIRCUIT HAVING IMPROVED ESD RESISTANCE	National
B. EPCOS AG	DE	P2009,0883	102009034101.3	21-Jul-2009			FILTER CIRCUIT HAVING IMPROVED FILTER CHARACTERISTIC	Allowed

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Count ¹	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	JP	P2009,0883	2012-521022	20-Jul-2010		5490895	FILTER CIRCUIT HAVING IMPROVED FILTER CHARACTERISTIC	Granted
B. EPCOS AG	US	P2009,0883	13/383,354	20-Jul-2010		9,019,045	Filter Circuit Having Improved Filter Characteristic	Granted
B. EPCOS AG	WO	P2009,0883	PCT/EP2010/060493	20-Jul-2010			FILTER CIRCUIT HAVING IMPROVED FILTER CHARACTERISTIC	National
B. EPCOS AG	DE	P2009,1031	10200903867.4.2	24-Aug-2009		DE102009038674	Trägervorrichtung, Anordnung mit einer solchen Trägervorrichtung sowie Verfahren zur Herstellung eines mindestens eine keramische Schicht umfassenden strukturierten Schichtstapels	Granted
B. EPCOS AG	JP	P2009,1031	2012-525985	11-Aug-2010		5689122	Trägervorrichtung, Anordnung mit einer solchen Trägervorrichtung sowie Verfahren zur Strukturerung eines mindestens eine keramische Schicht umfassenden Schichtstapels	Granted
B. EPCOS AG	KR	P2009,1031	10-2012-7007597	11-Aug-2010			CARRIER DEVICE, ARRANGEMENT COMPRISING SUCH A CARRIER DEVICE, AND METHOD FOR PATTERNING A LAYER STACK COMPRISING AT LEAST ONE CERAMIC LAYER	ExamPub
B. EPCOS AG	TW	P2009,1031	99127247	16-Aug-2010		1535682	Carrier device, arrangement comprising such a carrier device, and method for patterning a layer stack comprising at least one ceramic layer	Granted
B. EPCOS AG	US	P2009,1031	13/391,974	11-Aug-2010		9,001,523	CARRIER DEVICE, ARRANGEMENT COMPRISING SUCH A CARRIER DEVICE, AND METHOD FOR PATTERNING A LAYER STACK COMPRISING AT LEAST ONE CERAMIC LAYER	Granted
B. EPCOS AG	WO	P2009,1031	PCT/EP2010/061708	11-Aug-2010			CARRIER DEVICE, ARRANGEMENT COMPRISING SUCH A CARRIER DEVICE, AND METHOD FOR PATTERNING A LAYER STACK COMPRISING AT LEAST ONE CERAMIC LAYER	National
B. EPCOS AG	DE	P2009,1366	602009017237.9	26-Oct-2009		EP2313945	FRONT-END CIRCUIT FOR IMPROVED ANTENNA PERFORMANCE	Granted
B. EPCOS AG	DE	P2009,1366	112009005325.4	26-Oct-2009			FRONT-END CIRCUIT FOR IMPROVED ANTENNA PERFORMANCE	ExamPub
B. EPCOS AG	EP	P2009,1366	09740155.8	26-Oct-2009		EP2313945	FRONT-END CIRCUIT FOR IMPROVED ANTENNA PERFORMANCE	Granted
B. EPCOS AG	JP	P2009,1366	2012-533489	26-Oct-2009		5559889	FRONT-END CIRCUIT FOR IMPROVED ANTENNA PERFORMANCE	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	US	P2009,1366	13/040,778	4-Mar-2011		8,717,247	FRONT-END CIRCUIT FOR IMPROVED ANTENNA PERFORMANCE	Granted
B. EPCOS AG	WO	P2009,1366	PCT/EP2009/064094	26-Oct-2009			FRONT-END CIRCUIT FOR IMPROVED ANTENNA PERFORMANCE	National
B. EPCOS AG	EP	P2009,1403	09753078.6	9-Nov-2009			IMPEDANCE CIRCUIT AND METHOD FOR SIGNAL TRANSFORMATION	Abandoned
B. EPCOS AG	JP	P2009,1403	2012-537304	9-Nov-2009		5485408	IMPEDANCE CIRCUIT AND METHOD FOR SIGNAL TRANSFORMATION	Granted
B. EPCOS AG	US	P2009,1403	13/451,991	20-Apr-2012		8,965,315	Impedance Circuit and Method for Signal Transformation	Granted
B. EPCOS AG	WO	P2009,1403	PCT/EP2009/064855	9-Nov-2009			IMPEDANCE CIRCUIT AND METHOD FOR SIGNAL TRANSFORMATION	National
B. EPCOS AG	DE	P2009,1464	112009005393.9	24-Nov-2009		DE112009005393	LOW-CURRENT LOGIC PLUS DRIVER CIRCUIT	Granted
B. EPCOS AG	JP	P2009,1464	2012539199	24-Nov-2009		5511975	LOW-CURRENT LOGIC PLUS DRIVER CIRCUIT	Granted
B. EPCOS AG	US	P2009,1464	13/457,244	26-Apr-2012		8,686,752	Low-Current Logic Plus Driver Circuit	Granted
B. EPCOS AG	WO	P2009,1464	PCT/EP2009/065760	24-Nov-2009			LOW-CURRENT LOGIC PLUS DRIVER CIRCUIT	National
B. EPCOS AG	DE	P2009,1501	112009005412.9	3-Dec-2009			BIPOLAR TRANSISTOR WITH LATERAL EMITTER AND COLLECTOR AND METHOD OF PRODUCTION	ExamPub
B. EPCOS AG	JP	P2009,1501	2012-541327	3-Dec-2009		5551790	BIPOLAR TRANSISTOR WITH LATERAL EMITTER AND COLLECTOR AND METHOD OF PRODUCTION	Granted
B. EPCOS AG	US	P2009,1501	13/474,605	17-May-2012		9,306,017	Bipolar Transistor with Lateral Emitter and Collector and Method of Production	Granted
B. EPCOS AG	WO	P2009,1501	PCT/EP2009/066364	3-Dec-2009			BIPOLAR TRANSISTOR WITH LATERAL EMITTER AND COLLECTOR AND METHOD OF PRODUCTION	National
B. EPCOS AG	DE	P2009,1503	112009005411.0	3-Dec-2009			POWER AMPLIFIER CIRCUIT AND FRONT END CIRCUIT	ExamPub
B. EPCOS AG	JP	P2009,1503	2012-541326	3-Dec-2009		5563668	POWER AMPLIFIER CIRCUIT AND FRONT END CIRCUIT	Granted
B. EPCOS AG	US	P2009,1503	13/513,239	3-Dec-2009		8,912,847	POWER AMPLIFIER CIRCUIT AND FRONT END CIRCUIT	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	WO	P2009,1503	PCT/EP2009/066355	3-Dec-2009			POWER AMPLIFIER CIRCUIT AND FRONT END CIRCUIT	National
B. EPCOS AG	DE	P2009,1535	112009005442.0	15-Dec-2009			COUPLER AND AMPLIFIER ARRANGEMENT	ExamPub
B. EPCOS AG	JP	P2009,1535	2012543481	15-Dec-2009		5518210	COUPLER AND AMPLIFIER ARRANGEMENT	Granted
B. EPCOS AG	US	P2009,1535	13/515,493	15-Dec-2009		9,172,127	COUPLER AND AMPLIFIER ARRANGEMENT	Granted
B. EPCOS AG	WO	P2009,1535	PCT/EP2009/067210	15-Dec-2009			COUPLER AND AMPLIFIER ARRANGEMENT	National
B. EPCOS AG	DE	P2009,1542	102009058418.8	16-Dec-2009		DE102009058418	Mobile communication device for use in e.g. global system for mobile communication system, has power amplifier arranged in signal path between signal path input and impedance adjusting circuit and operating at transmission time	Granted
B. EPCOS AG	DE	P2010,0032	102010005306.6	21-Jan-2010		DE102010005306	DMS FILTER HAVING IMPROVED SIGNAL SUPPRESSION IN THE STOP BAND	Granted
B. EPCOS AG	JP	P2010,0032	2012-549330	18-Jan-2011		5866297	DMS FILTER HAVING IMPROVED SIGNAL SUPPRESSION IN THE STOP BAND	Granted
B. EPCOS AG	KR	P2010,0032	10-2012-7021582	18-Jan-2011			DMS FILTER HAVING IMPROVED SIGNAL SUPPRESSION IN THE STOP BAND	Exam
B. EPCOS AG	US	P2010,0032	13/521,403	18-Jan-2011		9,178,490	DMS FILTER HAVING IMPROVED SIGNAL SUPPRESSION IN THE STOP BAND	Granted
B. EPCOS AG	WO	P2010,0032	PCT/EP2011/050601	18-Jan-2011			DMS FILTER HAVING IMPROVED SIGNAL SUPPRESSION IN THE STOP BAND	National
B. EPCOS AG	CN	P2010,0038	201080062298.9	15-Sep-2010		ZL201080062298.9	Electroacoustic transducer having reduced losses due to transverse emission and improved performance due to suppression of transverse modes	Granted
B. EPCOS AG	CN	P2010,0038	201610089694.X	15-Sep-2010			Elektroakustischer Wandler mit verringerten Verlusten durch transverse Emission und verbesserter Performance durch Unterdrückung transversaler Moden	ExamPub
B. EPCOS AG	DE	P2010,0038	102010064575.3	25-Jan-2010		102010064575	ELECTROACOUSTIC TRANSDUCER HAVING REDUCED LOSSES DUE TO TRANSVERSE EMISSION AND IMPROVED PERFORMANCE DUE TO SUPPRESSION OF TRANSVERSE MODES	Granted
B. EPCOS AG	DE	P2010,0038	102010005596.4	25-Jan-2010		102010005596	ELECTROACOUSTIC TRANSDUCER HAVING REDUCED LOSSES DUE TO TRANSVERSE EMISSION AND IMPROVED PERFORMANCE	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
							DUE TO SUPPRESSION OF TRANSVERSE MODES	
B. EPCOS AG	JP	P2010,0038	2014-050890	15-Sep-2010			ELECTROACOUSTIC TRANSDUCER HAVING PERFORMANCE ENHANCED BY REDUCING LATERAL DIRECTION RADIATION LOSS AND SUPPRESSING LATERAL DIRECTION MODE	Appealed
B. EPCOS AG	JP	P2010,0038	2012-549265	15-Sep-2010		5503020	ELECTROACOUSTIC TRANSDUCER HAVING REDUCED LOSSES DUE TO TRANSVERSE EMISSION AND IMPROVED PERFORMANCE DUE TO SUPPRESSION OF TRANSVERSE MODES	Granted
B. EPCOS AG	KR	P2010,0038	10-2012-7022085	15-Sep-2010		10-1661796	ELECTROACOUSTIC TRANSDUCER HAVING REDUCED LOSSES DUE TO TRANSVERSE EMISSION AND IMPROVED PERFORMANCE DUE TO SUPPRESSION OF TRANSVERSE MODES	Granted
B. EPCOS AG	KR	P2010,0038	10-2016-7026358	15-Sep-2010			Elektroakustischer Wandler mit verringerten Verlusten durch transverse Emission und verbesserter Performance durch Unterdrückung transversaler Moden	Exam
B. EPCOS AG	US	P2010,0038	14/979,287	15-Sep-2010			ELECTROACOUSTIC TRANSDUCER HAVING REDUCED LOSSES DUE TO TRANSVERSE EMISSION AND IMPROVED PERFORMANCE DUE TO SUPPRESSION OF TRANSVERSE MODES	Published
B. EPCOS AG	US	P2010,0038	13/520,533	15-Sep-2010		9,257,960	Electroacoustic Transducer having Reduced Losses due to Transverse Emission and Improved Performance due to Suppression of Transverse Modes	Granted
B. EPCOS AG	WO	P2010,0038	PCT/EP2010/063562	15-Sep-2010			ELECTROACOUSTIC TRANSDUCER HAVING REDUCED LOSSES DUE TO TRANSVERSE EMISSION AND IMPROVED PERFORMANCE DUE TO SUPPRESSION OF TRANSVERSE MODES	National
B. EPCOS AG	DE	P2010,0083	112010005225.5	4-Feb-2010			AMPLIFIER CIRCUIT AND METHOD FOR SIGNAL SENSING	ExamPub
B. EPCOS AG	JP	P2010,0083	2012-551509	4-Feb-2010		5526241	AMPLIFIER CIRCUIT AND METHOD FOR SIGNAL SENSING	Granted
B. EPCOS AG	US	P2010,0083	13/576,649	4-Feb-2010		8,629,719	AMPLIFIER CIRCUIT AND METHOD FOR SIGNAL SENSING	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	WO	P2010,0083	PCT/EP2010/051377	4-Feb-2010			AMPLIFIER CIRCUIT AND METHOD FOR SIGNAL SENSING	National
B. EPCOS AG	CN	P2010,0568	201180010588.3	14-Feb-2011		ZL201180010588.3	Micro-acoustic filter having compensated cross-talk and method for compensation	Granted
B. EPCOS AG	DE	P2010,0568	102010008774.2	22-Feb-2010			Mikroakustisches Filter mit kompensiertem Übersprechen und Verfahren zur Kompensation	Granted
B. EPCOS AG	JP	P2010,0568	2012-554284	14-Feb-2011		5896924	Mikroakustisches Filter mit kompensiertem Übersprechen und Verfahren zur Kompensation	Granted
B. EPCOS AG	US	P2010,0568	13/576,653	14-Feb-2011		9,362,884	MICRO-ACOUSTIC FILTER HAVING COMPENSATED CROSS-TALK AND METHOD FOR COMPENSATION	Granted
B. EPCOS AG	WO	P2010,0568	PCT/EP2011/052136	14-Feb-2011			MICRO-ACOUSTIC FILTER HAVING COMPENSATED CROSS-TALK AND METHOD FOR COMPENSATION	National
B. EPCOS AG	DE	P2010,0596	102011011506.4	17-Feb-2011			BANDGAP REFERENCE CIRCUIT AND METHOD FOR PRODUCING THE CIRCUIT	ExamPub
B. EPCOS AG	JP	P2010,0596	2015-207912	1-Mar-2011			BAND GAP REFERENCE CIRCUIT AND METHOD FOR PRODUCING THE CIRCUIT	ExamPub
B. EPCOS AG	JP	P2010,0596	2011-043731	1-Mar-2011			BAND GAP REFERENCE CIRCUIT AND METHOD FOR PRODUCING THE CIRCUIT	Abandoned
B. EPCOS AG	US	P2010,0596	13/039,785	5-Mar-2010		8,305,069	BANDGAP REFERENCE CIRCUIT AND METHOD FOR PRODUCING THE CIRCUIT	Granted
B. EPCOS AG	WO	P2010,0596	PCT/EP2010/052856	5-Mar-2010			BANDGAP REFERENCE CIRCUIT AND METHOD FOR PRODUCING THE CIRCUIT	Abandoned
B. EPCOS AG	DE	P2010,0597	112010005352.9	5-Mar-2010			CIRCUIT UNIT, BIAS CIRCUIT WITH CIRCUIT UNIT AND DIFFERENTIAL AMPLIFIER CIRCUIT WITH FIRST AND SECOND CIRCUIT UNIT	Exam
B. EPCOS AG	JP	P2010,0597	2012-555307	5-Mar-2010		5437506	CIRCUIT UNIT, BIAS CIRCUIT WITH CIRCUIT UNIT AND DIFFERENTIAL AMPLIFIER CIRCUIT WITH FIRST AND SECOND CIRCUIT UNIT	Granted
B. EPCOS AG	US	P2010,0597	13/582,132	5-Mar-2010		8,797,100	CIRCUIT UNIT, BIAS CIRCUIT WITH CIRCUIT UNIT AND DIFFERENTIAL AMPLIFIER CIRCUIT WITH FIRST AND SECOND CIRCUIT UNIT	Granted
B. EPCOS AG	WO	P2010,0597	PCT/EP2010/052855	5-Mar-2010			CIRCUIT UNIT, BIAS CIRCUIT WITH CIRCUIT UNIT AND DIFFERENTIAL AMPLIFIER	National

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
							CIRCUIT WITH FIRST AND SECOND CIRCUIT UNIT	
B. EPCOS AG	DE	P2010,0640	102010011651.3	17-Mar-2010			FRONT-END CIRCUIT WITH INCREASED FLEXIBILITY IN ARRANGING THE CIRCUIT COMPONENTS	ExamPub
B. EPCOS AG	WO	P2010,0640	PCT/EP2011/053115	2-Mar-2011			FRONT-END CIRCUIT WITH INCREASED FLEXIBILITY IN ARRANGING THE CIRCUIT COMPONENTS	Abandoned
B. EPCOS AG	DE	P2010,0642	102010011649.1	17-Mar-2010			Frontend-Schaltung für ein mobiles Kommunikationsgerät mit verbesserter Impedanzanpassung	ExamPub
B. EPCOS AG	WO	P2010,0642	PCT/EP2011/052522	21-Feb-2011			FRONT-END CIRCUIT FOR A MOBILE COMMUNICATIONS DEVICE, WITH IMPROVED IMPEDANCE MATCHING	Abandoned
B. EPCOS AG	DE	P2010,0681	102010012603.9	24-Mar-2010			FRONT END MODULE AND METHOD OF OPERATION IN DIFFERENT CIRCUIT ENVIRONMENTS	ExamPub
B. EPCOS AG	JP	P2010,0681	2013-500414	3-Mar-2011		5762521	FRONT END MODULE AND METHOD OF OPERATION IN DIFFERENT CIRCUIT ENVIRONMENTS	Granted
B. EPCOS AG	US	P2010,0681	13/636,270	3-Mar-2011		9,084,286	Front End Module and Method of Operation in Different Circuit Environments	Published
B. EPCOS AG	WO	P2010,0681	PCT/EP2011/053206	3-Mar-2011			FRONT END MODULE AND METHOD OF OPERATION IN DIFFERENT CIRCUIT ENVIRONMENTS	National
B. EPCOS AG	DE	P2010,0798	102010014101.1	7-Apr-2010		102010014101	Hybrid circuit for impedance matching circuit used in mobile communication apparatus, has adjustable impedance elements which are designed based on different technologies, different physical effects and different action principles	Granted
B. EPCOS AG	DE	P2010,0805	102010014919.5	14-Apr-2010		DE102010014919	Verfahren zur Herstellung einer dielektrischen Schicht auf einem Bauelement	Granted
B. EPCOS AG	JP	P2010,0805	2013-504268	13-Apr-2011		5871903	Verfahren zur Herstellung einer dielektrischen Schicht auf einem Bauelement	Granted
B. EPCOS AG	US	P2010,0805	13/639,527	13-Apr-2011		9,394,163	Method for Producing a Dielectric Layer on a Component	Granted
B. EPCOS AG	WO	P2010,0805	PCT/EP2011/055850	13-Apr-2011			METHOD FOR PRODUCING A DIELECTRIC LAYER ON A COMPONENT	National

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	JP	P2010,0875	2013-504136	26-Apr-2010			MOBILE COMMUNICATION DEVICE WITH IMPROVED ANTENNA PERFORMANCE	Abandoned
B. EPCOS AG	US	P2010,0875	13/643,915	26-Apr-2010		9,035,832	MOBILE COMMUNICATION DEVICE WITH IMPROVED ANTENNA PERFORMANCE	Granted
B. EPCOS AG	WO	P2010,0875	PCT/EP2010/055549	26-Apr-2010			MOBILE COMMUNICATION DEVICE WITH IMPROVED ANTENNA PERFORMANCE	National
B. EPCOS AG	US	P2010,0883	12/771,407	30-Apr-2010		8,283,835	GUIDED BULK ACOUSTIC WAVE DEVICE HAVING REDUCED HEIGHT AND METHOD FOR MANUFACTURING	Granted
B. EPCOS AG	DE	P2010,0965	102010021164.8	21-May-2010			Balanced/Unbalanced arbeitendes SAW Filter	ExamPub
B. EPCOS AG	JP	P2010,0965	2013-510617	18-May-2011		5764204	Balanced/Unbalanced arbeitendes SAW Filter	Granted
B. EPCOS AG	US	P2010,0965	13/697,328	18-May-2011		9,130,538	SAW Filter Operating in a Balanced/Unbalanced Manner	Granted
B. EPCOS AG	WO	P2010,0965	PCT/EP2011/058059	18-May-2011			SAW FILTER OPERATING IN A BALANCED/UNBALANCED MANNER	National
B. EPCOS AG	JP	P2010,1186	2013-515714	7-Jul-2010		5701381	VOLTAGE REGULATOR AND A METHOD FOR REDUCING AN INFLUENCE OF A THRESHOLD VOLTAGE VARIATION	Granted
B. EPCOS AG	US	P2010,1186	13/808,527	7-Jul-2010		9,280,169	Voltage Regulator and a Method for Reducing an Influence of a Threshold Voltage Variation	Granted
B. EPCOS AG	WO	P2010,1186	PCT/EP2010/059743	7-Jul-2010			VOLTAGE REGULATOR AND A METHOD FOR REDUCING AN INFLUENCE OF A THRESHOLD VOLTAGE VARIATION	National
B. EPCOS AG	DE	P2010,1190	102010026843.7	12-Jul-2010			Modul-Package und Herstellungsverfahren	ExamPub
B. EPCOS AG	JP	P2010,1190	2013-519011	20-Jun-2011			MODULE PACKAGE AND PRODUCTION METHOD	Abandoned
B. EPCOS AG	KR	P2010,1190	10-2013-7000953	20-Jun-2011			MODULE PACKAGE AND PRODUCTION METHOD	Exam
B. EPCOS AG	US	P2010,1190	13/809,575	20-Jun-2011			MODULE PACKAGE AND PRODUCTION METHOD	Allowed
B. EPCOS AG	WO	P2010,1190	PCT/EP2011/060245	20-Jun-2011			MODULE PACKAGE AND PRODUCTION METHOD	National
B. EPCOS AG	CN	P2010,1234	201180037005.6	15-Jun-2011			MODULE AND PRODUCTION METHOD	Abandoned
B. EPCOS AG	DE	P2010,1234	102010032506.6	28-Jul-2010			Modul und Herstellungsverfahren	ExamPub
B. EPCOS AG	JP	P2010,1234	2013-521030	15-Jun-2011			Modul und Herstellungsverfahren	Abandoned

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Count ¹	Family Classnumber	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	KR	P2010,1234	10-2013-7004889	15-Jun-2011			MODULE AND PRODUCTION METHOD	Exam
B. EPCOS AG	US	P2010,1234	13/812,490	15-Jun-2011		9,253,886	MODULE AND PRODUCTION METHOD	Granted
B. EPCOS AG	WO	P2010,1234	PCT/EP2011/059961	15-Jun-2011			MODULE AND PRODUCTION METHOD	National
B. EPCOS AG	DE	P2010,1238	102010032365.9	27-Jul-2010		DE102010032365	Resonator is operated by acoustic bulk wave and has trim section with silicon dioxide, silicon nitride and titanium, where lower electrode is arranged with layer of aluminum copper	Granted
B. EPCOS AG	DE	P2010,1252	102010032763.8	29-Jul-2010			Flip-Chip-Gehäuse für zwei Filtertopologien	ExamPub
B. EPCOS AG	WO	P2010,1252	PCT/EP2011/060640	24-Jun-2011			FLIP-CHIP HOUSING FOR TWO FILTER TOPOLOGIES	Abandoned
B. EPCOS AG	DE	P2010,1264	10201003284.4	4-Aug-2010		DE10201003284	Method for producing arrangement of electronic component e.g. microelectro mechanical system (MEMS) chip, involves partially removing support elements, such that supporting elements are in non-contact state with respect to component	Granted
B. EPCOS AG	DE	P2010,1268	102010033551.7	5-Aug-2010			Verfahren zur Herstellung einer Mehrzahl von elektronischen Bauelementen mit elektromagnetischer Schirmung und elektronisches Bauelement mit elektromagnetischer Schirmung	Abandoned
B. EPCOS AG	JP	P2010,1268	2013-522203	27-Jul-2011		5636497	METHOD FOR PRODUCING A PLURALITY OF ELECTRONIC DEVICES HAVING ELECTROMAGNETIC SHIELDING AND IN PARTICULAR HAVING HEAT DISSIPATION AND ELECTRONIC DEVICE HAVING ELECTROMAGNETIC SHIELDING AND IN PARTICULAR HAVING DISSIPATION	Granted
B. EPCOS AG	US	P2010,1268	13/814,225	27-Jul-2011		9,386,734	METHOD FOR PRODUCING A PLURALITY OF ELECTRONIC DEVICES HAVING ELECTROMAGNETIC SHIELDING AND IN PARTICULAR HAVING HEAT DISSIPATION AND ELECTRONIC DEVICE HAVING ELECTROMAGNETIC SHIELDING AND IN PARTICULAR HAVING HEAT DISSIPATION	Granted
B. EPCOS AG	WO	P2010,1268	PCT/EP2011/062919	27-Jul-2011			METHOD FOR PRODUCING A PLURALITY OF ELECTRONIC DEVICES HAVING ELECTROMAGNETIC SHIELDING AND IN PARTICULAR HAVING HEAT DISSIPATION AND ELECTRONIC DEVICE HAVING	National

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
							ELECTROMAGNETIC SHIELDING AND IN PARTICULAR HAVING DISSIPATION	
B. EPCOS AG	DE	P2010,1277	102010033969.5	11-Aug-2010		DE102010033969	Reaktanzfilter mit Unterdrückung im Sperrbereich	Granted
B. EPCOS AG	WO	P2010,1277	PCT/EP2011/063308	2-Aug-2011			REACTANCE FILTER WITH SUPPRESSION IN THE STOP BAND	Abandoned
B. EPCOS AG	DE	P2010,1283	102010034121.5	12-Aug-2010			Mit akustischen Wellen arbeitendes Bauelement mit reduziertem Temperaturgang der Frequenzlage und Verfahren zur Herstellung	ExamPub
B. EPCOS AG	JP	P2010,1283	2015-75340	25-Jul-2011			Mit akustischen Wellen arbeitendes Bauelement mit reduziertem Temperaturgang der Frequenzlage und Verfahren zur Herstellung	Granted
B. EPCOS AG	JP	P2010,1283	2013-523557	25-Jul-2011		5738999	Mit akustischen Wellen arbeitendes Bauelement mit reduziertem Temperaturgang der Frequenzlage und Verfahren zur Herstellung	Granted
B. EPCOS AG	KR	P2010,1283	10-2013-7005848	25-Jul-2011			COMPONENT WORKING WITH ACOUSTIC WAVES HAVING A REDUCED TEMPERATURE GRADIENT OF THE FREQUENCY RANGE AND METHOD FOR PRODUCING SAME	Exam
B. EPCOS AG	US	P2010,1283	13/814,906	25-Jul-2011		9,160,303	Component Working with Acoustic Waves having Reduced Temperature Coefficient of Frequencies and Method for Producing Same	Granted
B. EPCOS AG	WO	P2010,1283	PCT/EP2011/062754	25-Jul-2011			COMPONENT WORKING WITH ACOUSTIC WAVES HAVING A REDUCED TEMPERATURE GRADIENT OF THE FREQUENCY RANGE AND METHOD FOR PRODUCING SAME	National
B. EPCOS AG	DE	P2010,1286	102010034431.1	16-Aug-2010			Bauelement mit geschützten Bauelementstrukturen und Verfahren zur Herstellung	ExamPub
B. EPCOS AG	WO	P2010,1286	PCT/EP2011/062751	25-Jul-2011			COMPONENT WITH PROTECTED COMPONENT STRUCTURES AND METHOD FOR PRODUCTION	Abandoned
B. EPCOS AG	DE	P2010,1307	102010035390.6	25-Aug-2010			Bauelement und Verfahren zum Herstellen eines Bauelements	Abandoned
B. EPCOS AG	DE	P2010,1307	102011018296.9	20-Apr-2011			Bauelement und Verfahren zum Herstellen eines Bauelements	ExamPub
B. EPCOS AG	JP	P2010,1307	2013-525212	29-Jul-2011		5734433	Bauelement und Verfahren zum Herstellen eines Bauelements	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	KR	P2010,1307	10-2013-7007347	29-Jul-2011			COMPONENT AND METHOD FOR PRODUCING A COMPONENT	Exam
B. EPCOS AG	US	P2010,1307	13/818,916	29-Jul-2011		9,382,110	Component and Method for Producing a Component	Granted
B. EPCOS AG	WO	P2010,1307	PCT/EP2011/063127	29-Jul-2011			COMPONENT AND METHOD FOR PRODUCING A COMPONENT	National
B. EPCOS AG	DE	P2010,1312	102010035488.0	26-Aug-2010			Verfahren zur Herstellung einer keramischen Grünfolie	ExamPub
B. EPCOS AG	JP	P2010,1312	2013-525211	28-Jul-2011		5859540	Verfahren zur Herstellung einer keramischen Grünfolie	Granted
B. EPCOS AG	US	P2010,1312	13/816,201	28-Jul-2011			Method for the Production of a Ceramic Green Sheet	Abandoned
B. EPCOS AG	WO	P2010,1312	PCT/EP2011/063044	28-Jul-2011			METHOD FOR THE PRODUCTION OF A CERAMIC GREEN SHEET	National
B. EPCOS AG							Electrical component i.e. Worldwide Interoperability for Microwave Access module, for sending and receiving Worldwide Interoperability for Microwave Access signals, has transceiver chip located on multilayer support substrate	ExamPub
B. EPCOS AG	DE	P2010,1315	102010036059.7	1-Sep-2010				
B. EPCOS AG	DE	P2010,1324	102010045056.1	10-Sep-2010		DE102010045056	Method and Apparatus for Producing Chip Devices, and Chip Device Produced by Means of the Method	Granted
B. EPCOS AG	US	P2010,1324	13/228,971	9-Sep-2011		9,114,979	Method and Apparatus for Producing Chip Devices, and Chip Device Produced by Means of the Method	Granted
B. EPCOS AG	CN	P2010,1397	201180046610.X	20-Sep-2011			CIRCUIT ARRANGEMENT	Abandoned
B. EPCOS AG	DE	P2010,1397	102010046677.8	27-Sep-2010			Schaltungsanordnung	ExamPub
B. EPCOS AG	JP	P2010,1397	2015-048544	20-Sep-2011		5982519	Schaltungsanordnung	Granted
B. EPCOS AG	JP	P2010,1397	2013-529637	20-Sep-2011			Schaltungsanordnung	Abandoned
B. EPCOS AG	KR	P2010,1397	10-2013-7010178	20-Sep-2011			CIRCUIT ARRANGEMENT	Exam
B. EPCOS AG	US	P2010,1397	13/822,704	20-Sep-2011		9,240,622	CIRCUIT ARRANGEMENT	Granted
B. EPCOS AG	WO	P2010,1397	PCT/EP2011/066350	20-Sep-2011			CIRCUIT ARRANGEMENT	National
B. EPCOS AG	DE	P2010,1400	102010046794.4	28-Sep-2010		DE102010046794	Mit akustischen Wellen arbeitendes Filter mit verringerten Nichtlinearitäten und Verfahren zur Herstellung	Granted
B. EPCOS AG	JP	P2010,1400	2013-530656	25-Aug-2011		5721841	Mit akustischen Wellen arbeitendes Filter mit verringerten Nichtlinearitäten und Verfahren zur Herstellung	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	US	P2010,1400	13/876,474	25-Aug-2011		9,231,556	ACOUSTIC WAVE FILTER HAVING REDUCED NON-LINEARITIES, AND METHOD FOR PRODUCTION	Granted
B. EPCOS AG	WO	P2010,1400	PCT/EP2011/064637	25-Aug-2011			ACOUSTIC WAVE FILTER COMPRISING TRANSDUCERS HAVING DIFFERENT METALLIZATION RATIOS IN ORDER TO REDUCE NON-LINEARITIES, AND PRODUCTION METHOD	National
B. EPCOS AG	DE	P2010,1410	102010047440.1	4-Oct-2010			Vorrichtung zur drahtlosen Informationsübertragung, Kommunikationsendgerät zur drahtlosen Informationsübertragung sowie Verfahren zur Impedanzanpassung	ExamPub
B. EPCOS AG	JP	P2010,1410	2013-532095	29-Aug-2011			Vorrichtung zur drahtlosen Informationsübertragung, Kommunikationsendgerät zur drahtlosen Informationsübertragung sowie Verfahren zur Impedanzanpassung	Abandoned
B. EPCOS AG	KR	P2010,1410	10-2013-7009274	29-Aug-2011			APPARATUS FOR WIRELESSLY TRANSMITTING INFORMATION, COMMUNICATION TERMINAL FOR WIRELESSLY TRANSMITTING INFORMATION AND IMPEDANCE MATCHING METHOD	Abandoned
B. EPCOS AG	US	P2010,1410	13/877,435	29-Aug-2011		9,100,109	Apparatus for Wirelessly Transmitting Information, Communication Terminal for Wirelessly Transmitting Information and Impedance Matching Method	Granted
B. EPCOS AG	WO	P2010,1410	PCT/EP2011/064837	29-Aug-2011			APPARATUS FOR WIRELESSLY TRANSMITTING INFORMATION, COMMUNICATION TERMINAL FOR WIRELESSLY TRANSMITTING INFORMATION AND IMPEDANCE MATCHING METHOD	National
B. EPCOS AG	DE	P2010,1428	112010005936.5	13-Oct-2010			ANTENNA AND RF FRONT-END ARRANGEMENT	ExamPub
B. EPCOS AG	JP	P2010,1428	2013-530592	13-Oct-2010		5685652	ANTENNA AND RF FRONT-END ARRANGEMENT	Granted
B. EPCOS AG	KR	P2010,1428	10-2016-7023253	13-Oct-2010			Antenna and RF Front-end Arrangement	Exam
B. EPCOS AG	KR	P2010,1428	10-2013-7011930	13-Oct-2010			ANTENNA AND RF FRONT-END ARRANGEMENT	Appealed
B. EPCOS AG	US	P2010,1428	13/879,396	13-Oct-2010			Antenna and RF Front-end Arrangement	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	WO	P2010,1428	PCT/EP2010/065332	13-Oct-2010			ANTENNA AND RF FRONT-END ARRANGEMENT	National
B. EPCOS AG	DE	P2010,1429	102010048620.5	15-Oct-2010		DE102010048620	Electrode, Microacoustic Component and Production Method for an Electrode	Granted
B. EPCOS AG	US	P2010,1429	13/273,871	14-Oct-2011		9,071,222	Method for Forming an Electrode	Granted
B. EPCOS AG	DE	P2010,1430	102010048632.9	15-Oct-2010			Method for manufacturing set of electronic units in high-frequency circuit of mobile telephone, involves applying electromagnetic protective layer on electronic unit to cover side surfaces of substrate uncovered by isolation process	Abandoned
B. EPCOS AG	DE	P2010,1433	102010048619.1	15-Oct-2010			Antenna Arrangement	ExamPub
B. EPCOS AG	US	P2010,1433	13/273,846	14-Oct-2011		8,837,336	Antenna Arrangement	Granted
B. EPCOS AG	CN	P2010,1443	201180050668.1	17-Oct-2011		ZL2011800560668.1	Band rejection filter comprising serial connection of at least two pi-elements	Granted
B. EPCOS AG	DE	P2010,1443	102010048965.4	20-Oct-2010		DE102010048965	Bandsperfilter mit einer Serienverschaltung von zumindest zwei pi-Gliedern	Granted
B. EPCOS AG	KR	P2010,1443	10-2013-7012034	17-Oct-2011			BAND REJECTION FILTER COMPRISING A SERIAL CONNECTION OF AT LEAST TWO PI-ELEMENTS	Exam
B. EPCOS AG	US	P2010,1443	13/880,044	17-Oct-2011		9,203,375	BAND REJECTION FILTER COMPRISING A SERIAL CONNECTION OF AT LEAST TWO PI-ELEMENTS	Granted
B. EPCOS AG	WO	P2010,1443	PCT/EP2011/068132	17-Oct-2011			BAND REJECTION FILTER COMPRISING A SERIAL CONNECTION OF AT LEAST TWO PI-ELEMENTS	National
B. EPCOS AG	DE	P2010,1473	102010034914.3	20-Aug-2010			DUPLEXER WITH BALUN	ExamPub
B. EPCOS AG	JP	P2010,1473	2013-524402	29-Jul-2011		5612768	DUPLEXER WITH BALUN	Granted
B. EPCOS AG	KR	P2010,1473	10-2013-7004185	29-Jul-2011			DUPLEXER WITH BALUN	Exam
B. EPCOS AG	US	P2010,1473	13/817,809	29-Jul-2011		9,294,070	DUPLEXER WITH BALUN	Granted
B. EPCOS AG	WO	P2010,1473	PCT/EP2011/063111	29-Jul-2011			DUPLEXER WITH BALUN	National
B. EPCOS AG	US	P2010,1526	12/909,200	21-Oct-2010		8,508,316	Bulk Acoustic Wave Filter of Ladder-Type Structure	Granted
B. EPCOS AG	DE	P2010,1566	112010005961.6	28-Oct-2010			SWITCHABLE FILTER	Abandoned
B. EPCOS AG	SG	P2010,1566	2013052420	28-Oct-2010		190039	SWITCHABLE FILTER	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Count ¹	Family Case number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	WO	P2010,1566	PCT/EP2010/066383	28-Oct-2010			SWITCHABLE FILTER	National
B. EPCOS AG	CN	P2010,1580	201180053281.1	3-Nov-2011			Chip having four filters operating with surface acoustic waves	ExamPub
B. EPCOS AG	DE	P2010,1580	102010050581.1	5-Nov-2010			Chip mit vier mit akustischen Oberflächenwellen arbeitenden Filtern	Abandoned
B. EPCOS AG	KR	P2010,1580	10-2013-7014215	3-Nov-2011			CHIP HAVING FOUR FILTERS OPERATING WITH SURFACE ACOUSTIC WAVES	Exam
B. EPCOS AG	WO	P2010,1580	PCT/EP2011/069353	3-Nov-2011			CHIP HAVING FOUR FILTERS OPERATING WITH SURFACE ACOUSTIC WAVES	National
B. EPCOS AG	DE	P2010,1648	112010006030.4	25-Nov-2010			MOBILE COMMUNICATION DEVICE WITH IMPROVED ANTENNA PERFORMANCE	ExamPub
B. EPCOS AG	KR	P2010,1648	10-2013-7016340	25-Nov-2010			MOBILE COMMUNICATION DEVICE WITH IMPROVED ANTENNA PERFORMANCE	Granted
B. EPCOS AG	US	P2010,1648	13885,671	25-Nov-2010		9,391,364	MOBILE COMMUNICATION DEVICE WITH IMPROVED ANTENNA PERFORMANCE	Granted
B. EPCOS AG	WO	P2010,1648	PCT/EP2010/068225	25-Nov-2010			MOBILE COMMUNICATION DEVICE WITH IMPROVED ANTENNA PERFORMANCE	National
B. EPCOS AG	DE	P2010,1669	102010052836.6	29-Nov-2010		DE102010052836	Base element of piezoelectric component, has electrical-ceramic material, and structured coating comprising inorganic-organic hybrid polymer that is provided on bottom surface	Granted
B. EPCOS AG	DE	P2010,1681	102010053273.8	2-Dec-2010		DE102010053273	Electro-acoustic component for use in mobile radio region, has electrodes arranged on side of piezoelectric layer made from mixed crystal that includes predominantly lithium tantalite	Granted
B. EPCOS AG	DE	P2010,1696	102010053674.1	7-Dec-2010			Elektroakustischer Wandler	ExamPub
B. EPCOS AG	JP	P2010,1696	2013-542505	6-Dec-2011		5655157	Elektroakustischer Wandler	Granted
B. EPCOS AG	US	P2010,1696	13/991,148	6-Dec-2011		9,391,256	ELECTROACOUSTIC TRANSDUCER WITH REDUCED LOSSES DUE TO TRANSVERSE EMISSION AND IMPROVED PERFORMANCE DUE TO SUPPRESSION OF TRANSVERSE MODES	Granted
B. EPCOS AG	WO	P2010,1696	PCT/EP2011/071900	6-Dec-2011			ELECTROACOUSTIC TRANSDUCER WITH REDUCED LOSSES DUE TO TRANSVERSAL EMISSION AND IMPROVED PERFORMANCE DUE TO SUPPRESSION OF TRANSVERSAL MODES	National

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Count ¹	Family Casenumber	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	DE	P2010,1732	102010054782.4	16-Dec-2010			CASED ELECTRICAL COMPONENT	ExamPub
B. EPCOS AG	JP	P2010,1732	2013-543611	22-Nov-2011		5894186	CASED ELECTRICAL COMPONENT	Granted
B. EPCOS AG	KR	P2010,1732	10-2013-7018314	22-Nov-2011		10-1566597	CASED ELECTRICAL COMPONENT	Granted
B. EPCOS AG	US	P2010,1732	13/994,091	22-Nov-2011			CASED ELECTRICAL COMPONENT	Published
B. EPCOS AG	WO	P2010,1732	PCT/EP2011/070691	22-Nov-2011			CASED ELECTRICAL COMPONENT	National
B. EPCOS AG	DE	P2010,1742	102010054781.6	16-Dec-2010		DE102010054781	Module for reducing thermomechanical stress on e.g. surface wave filters, has encapsulated components provided on support substrate, and encapsulation mass surrounding components, where encapsulation mass comprises material recess	Granted
B. EPCOS AG	DE	P2010,1750	102010054900.2	17-Dec-2010			Filter e.g. surface acoustic wave filter, for mobile radio system, has substrate, input and output converters and contacts to connect filter with devices, and lines with respective sections with increased resistance against line sections	ExamPub
B. EPCOS AG	DE	P2010,1760	102010055627.0	22-Dec-2010			ELECTRICAL MODULE FOR BEING RECEIVED BY AUTOMATTC PLACEMENT MACHINES BY MEANS OF GENERATING A VACUUM	ExamPub
B. EPCOS AG	JP	P2010,1760	2013-545171	9-Dec-2011		5693748	ELECTRICAL MODULE FOR BEING RECEIVED BY AUTOMATTC PLACEMENT MACHINES BY MEANS OF GENERATING A VACUUM	Granted
B. EPCOS AG	US	P2010,1760	13/996,497	9-Dec-2011			ELECTRICAL MODULE FOR BEING RECEIVED BY AUTOMATTC PLACEMENT MACHINES BY MEANS OF GENERATING A VACUUM	Published
B. EPCOS AG	WO	P2010,1760	PCT/EP2011/072347	9-Dec-2011			ELECTRICAL MODULE FOR BEING RECEIVED BY AUTOMATTC PLACEMENT MACHINES BY MEANS OF GENERATING A VACUUM	National
B. EPCOS AG	DE	P2010,1762	102010055669.6	22-Dec-2010			REACTANCE FILTER COMPRISING SUPPRESSION IN THE STOP BAND AND DUPLEXER COMPONENT	ExamPub
B. EPCOS AG	JP	P2010,1762	2013-545229	16-Dec-2011		5769817	REACTANCE FILTER COMPRISING SUPPRESSION IN THE STOP BAND AND DUPLEXER COMPONENT	Granted
B. EPCOS AG	US	P2010,1762	13/995,941	16-Dec-2011		9,294,065	REACTANCE FILTER COMPRISING SUPPRESSION IN THE STOP BAND AND DUPLEXER COMPONENT	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Count ¹	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	WO	P2010,1762	PCT/EP2011/0731 33	16-Dec-2011			REACTANCE FILTER COMPRISING SUPPRESSION IN THE STOP BAND AND DUPLEXER COMPONENT	National
B. EPCOS AG	DE	P2010,1763	102010055671.8	22-Dec-2010		DE10201005567 1	DIRECTIONAL COUPLER	Granted
B. EPCOS AG	JP	P2010,1763	2013-545141	21-Nov-2011		5762560	DIRECTIONAL COUPLER	Granted
B. EPCOS AG	US	P2010,1763	13/883,613	21-Nov-2011		9,184,483	DIRECTIONAL COUPLER	Granted
B. EPCOS AG	WO	P2010,1763	PCT/EP2011/0705 88	21-Nov-2011			DIRECTIONAL COUPLER	National
B. EPCOS AG	DE	P2010,1764	112010006076.2	22-Dec-2010			CIRCUIT ARRANGEMENT FOR RF LOOPBACK	Exam
B. EPCOS AG	US	P2010,1764	13/993,731	22-Dec-2010			Circuit Arrangement for RF Loopback	Published
B. EPCOS AG	WO	P2010,1764	PCT/EP2010/0705 41	22-Dec-2010			CIRCUIT ARRANGEMENT FOR RF LOOPBACK	National
B. EPCOS AG	CN	P2010,1765	201180061779.2	2-Dec-2011			FILTER COMPONENT	ExamPub
B. EPCOS AG	DE	P2010,1765	102010055648.3	22-Dec-2010			FILTER COMPONENT	ExamPub
B. EPCOS AG	WO	P2010,1765	PCT/EP2011/0716 57	2-Dec-2011			FILTER COMPONENT	National
B. EPCOS AG	DE	P2010,1771	102010055664.5	22-Dec-2010			Surface acoustic wave filter for duplexer element of antenna duplexer, has capacitor that is connected between output terminals or between output terminal and reference potential applying terminal	ExamPub
B. EPCOS AG	US	P2010,1771	13/331,937	20-Dec-2011		9,106,206	Surface Acoustic Wave Filter and Duplexer Component	Granted
B. EPCOS AG	CN	P2010,1777	201180061942.5	22-Dec-2011		ZL20118006194 2.5	Filter arrangement and method for producing filter arrangement	Granted
B. EPCOS AG	DE	P2010,1777	102010055649.1	22-Dec-2010		DE10201005564 9	FILTER ARRANGEMENT AND METHOD FOR PRODUCING A FILTER ARRANGEMENT	Granted
B. EPCOS AG	US	P2010,1777	13/997,168	22-Dec-2011		9,099,987	FILTER ARRANGEMENT AND METHOD FOR PRODUCING A FILTER ARRANGEMENT	Granted
B. EPCOS AG	WO	P2010,1777	PCT/EP2011/0738 49	22-Dec-2011			FILTER ARRANGEMENT AND METHOD FOR PRODUCING A FILTER ARRANGEMENT	National
B. EPCOS AG	DE	P2010,1778	102010055628.9	22-Dec-2010			ELECTROACOUSTIC RESONATOR	ExamPub
B. EPCOS AG	JP	P2010,1778	2013-545156	2-Dec-2011		5852132	ELECTROACOUSTIC RESONATOR	Granted
B. EPCOS AG	WO	P2010,1778	PCT/EP2011/0716 51	2-Dec-2011			ELECTROACOUSTIC RESONATOR	National

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	DE	P2010,1780	102010055668.8	22-Dec-2010		102010055668	Switch arrangement for use in circuit device that is utilized in e.g. transmitter for wireless transmission of data, has inductors arranged parallel to lines and operable to capacitances in fixed frequency range, respectively	Granted
B. EPCOS AG	DE	P2010,1784	102010055935.0	23-Dec-2010		DE102010055935	Method for Connecting a Plurality of Unpackaged Substrates	Granted
B. EPCOS AG	US	P2010,1784	13/330,422	19-Dec-2011		9,165,905	Method for Connecting a Plurality of Unpackaged Substrates	Granted
B. EPCOS AG	DE	P2010,1792	112010006094.0	27-Dec-2010			FRONT-END CIRCUIT	ExamPub
B. EPCOS AG	JP	P2010,1792	2013-546593	27-Dec-2010			FRONT-END CIRCUIT	Abandoned
B. EPCOS AG	US	P2010,1792	13/997,925	27-Dec-2010		9,077,437	FRONT-END CIRCUIT	Granted
B. EPCOS AG	WO	P2010,1792	PCT/EP2010/070765	27-Dec-2010			FRONT-END CIRCUIT	National
B. EPCOS AG	DE	P2010,1803	102010056431.1	28-Dec-2010		DE102010056431	ENCAPSULATION OF AN MEMS COMPONENT AND METHOD FOR PRODUCING SAID COMPONENT	Granted
B. EPCOS AG	JP	P2010,1803	2013-546635	18-Nov-2011		5762563	ENCAPSULATION OF AN MEMS COMPONENT AND METHOD FOR PRODUCING SAID COMPONENT	Granted
B. EPCOS AG	US	P2010,1803	13/976,420	18-Nov-2011		9,006,868	ENCAPSULATION OF AN MEMS COMPONENT AND A METHOD FOR PRODUCING SAID COMPONENT	Granted
B. EPCOS AG	WO	P2010,1803	PCT/EP2011/070470	18-Nov-2011			ENCAPSULATION OF AN MEMS COMPONENT AND METHOD FOR PRODUCING SAID COMPONENT	National
B. EPCOS AG	CN	P2010,1808	201180063779.6	22-Nov-2011			ELECTRONIC COMPONENT AND METHOD FOR PRODUCING THE ELECTRONIC COMPONENT	ExamPub
B. EPCOS AG	DE	P2010,1808	102010056572.5	30-Dec-2010			ELECTRONIC COMPONENT AND METHOD FOR PRODUCING THE ELECTRONIC COMPONENT	ExamPub
B. EPCOS AG	JP	P2010,1808	2015-139774	22-Nov-2011			ELECTRONIC COMPONENT AND METHOD FOR PRODUCING THE ELECTRONIC COMPONENT	Exam

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	JP	P2010,1808	2013-546638	22-Nov-2011		5926287	ELECTRONIC COMPONENT AND METHOD FOR PRODUCING THE ELECTRONIC COMPONENT	Granted
B. EPCOS AG	US	P2010,1808	13/976,969	22-Nov-2011			ELECTRONIC COMPONENT AND METHOD FOR PRODUCING THE ELECTRONIC COMPONENT	Allowed
B. EPCOS AG	WO	P2010,1808	PCT/EP2011/070709	22-Nov-2011			ELECTRONIC COMPONENT AND METHOD FOR PRODUCING THE ELECTRONIC COMPONENT	National
B. EPCOS AG	CN	P2010,1809	201180063794.0	5-Dec-2011			Electronic component and method for producing the electronic component	ExamPub
B. EPCOS AG	DE	P2010,1809	102010056562.8	30-Dec-2010			ELECTRONIC COMPONENT AND METHOD FOR PRODUCING THE ELECTRONIC COMPONENT	ExamPub
B. EPCOS AG	JP	P2010,1809	2013-0546642	5-Dec-2011		5727625	ELECTRONIC COMPONENT AND METHOD FOR PRODUCING THE ELECTRONIC COMPONENT	Granted
B. EPCOS AG	US	P2010,1809	13/977,000	5-Dec-2011			ELECTRONIC COMPONENT AND METHOD FOR PRODUCING THE ELECTRONIC COMPONENT	Published
B. EPCOS AG	WO	P2010,1809	PCT/EP2011/071761	5-Dec-2011			ELECTRONIC COMPONENT AND METHOD FOR PRODUCING THE ELECTRONIC COMPONENT	National
B. EPCOS AG	CN	P2011,0057	201180065858.0	24-Jan-2011			SURFACE ACOUSTIC WAVE FILTER	Abandoned
B. EPCOS AG	JP	P2011,0057	2013-549728	24-Jan-2011			SURFACE ACOUSTIC WAVE FILTER	Abandoned
B. EPCOS AG	US	P2011,0057	13/981,552	24-Jan-2011		9,391,589	SURFACE ACOUSTIC WAVE FILTER	Granted
B. EPCOS AG	WO	P2011,0057	PCT/EP2011/050897	24-Jan-2011			SURFACE ACOUSTIC WAVE FILTER	National
B. EPCOS AG	DE	P2011,0087	1120111104825.4	2-Feb-2011			SENSOR ARRANGEMENT	ExamPub
B. EPCOS AG	WO	P2011,0087	PCT/EP2011/051479	2-Feb-2011			SENSOR ARRANGEMENT	National
B. EPCOS AG	SG	P2011,0092	201305205-5	2-Feb-2011		191866	FILTER CIRCUIT	Granted
B. EPCOS AG	WO	P2011,0092	PCT/EP2011/051485	2-Feb-2011			FILTER CIRCUIT	National
B. EPCOS AG	DE	P2011,0097	1120111104831.9	4-Feb-2011			BROADBAND SAW FILTER	ExamPub
B. EPCOS AG	JP	P2011,0097	2013-552115	4-Feb-2011		5730411	BROADBAND SAW FILTER	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	US	P2011,0097	13/992,160	4-Feb-2011		8,941,451	BROADBAND SAW FILTER	Granted
B. EPCOS AG	WO	P2011,0097	PCT/EP2011/051670	4-Feb-2011			BROADBAND SAW FILTER	National
B. EPCOS AG	CN	P2011,0118	201280009173.9	8-Feb-2012		ZL201280009173.9	Component operating with acoustic waves and method for producing same	Granted
B. EPCOS AG	DE	P2011,0118	102011011377.0	16-Feb-2011		102011011377	Mit akustischen Wellen arbeitendes Bauelement und Verfahren zur Herstellung	Granted
B. EPCOS AG	JP	P2011,0118	2013-553869	8-Feb-2012		5687776	Mit akustischen Wellen arbeitendes Bauelement und Verfahren zur Herstellung	Granted
B. EPCOS AG	US	P2011,0118	13/985,571	8-Feb-2012		9,455,684	COMPONENT OPERATING WITH ACOUSTIC WAVES AND METHOD FOR PRODUCING SAME	Granted
B. EPCOS AG	WO	P2011,0118	PCT/EP2012/052121	8-Feb-2012			COMPONENT OPERATING WITH ACOUSTIC WAVES AND METHOD FOR PRODUCING SAME	National
B. EPCOS AG	CN	P2011,0159	201280011436.X	1-Mar-2012			AMPLIFIER MODULE	Granted
B. EPCOS AG	DE	P2011,0159	102011012927.8	3-Mar-2011			Verstärkermodule	ExamPub
B. EPCOS AG	JP	P2011,0159	2013-555879	1-Mar-2012			Verstärkermodule	Abandoned
B. EPCOS AG	KR	P2011,0159	10-2013-7025555	1-Mar-2012			AMPLIFIER MODULE	Pending
B. EPCOS AG	US	P2011,0159	14/002,099	1-Mar-2012		9,219,297	AMPLIFIER MODULE	Granted
B. EPCOS AG	WO	P2011,0159	PCT/EP2012/053560	1-Mar-2012			AMPLIFIER MODULE	National
B. EPCOS AG	CN	P2011,0276	201280017250.5	28-Mar-2012		ZL201280017250.5	WAFER-LEVEL PACKAGE AND METHOD FOR PRODUCTION THEREOF	Granted
B. EPCOS AG	DE	P2011,0276	102011016554.1	8-Apr-2011			Waferlevel-Package und Verfahren zur Herstellung	ExamPub
B. EPCOS AG	KR	P2011,0276	10-2013-7029070	28-Mar-2012		10-1560961	WAFER-LEVEL PACKAGE AND METHOD FOR PRODUCTION THEREOF	Granted
B. EPCOS AG	US	P2011,0276	14/007,074	28-Mar-2012			Wafer-Level Package and Method for Production Thereof	Published
B. EPCOS AG	WO	P2011,0276	PCT/EP2012/055559	28-Mar-2012			WAFER-LEVEL PACKAGE AND METHOD FOR PRODUCTION THEREOF	National
B. EPCOS AG	DE	P2011,0335	102011018918.1	28-Apr-2011			Schaltungsanordnung	Allowed
B. EPCOS AG	US	P2011,0335	14/113,808	17-Apr-2012		9,374,123	CIRCUIT ASSEMBLY	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	WO	P2011,0335	PCT/EP2012/057011	17-Apr-2012			CIRCUIT ASSEMBLY	National
B. EPCOS AG	DE	P2011,0358	102011100468.1	4-May-2011		DE102011100468	Mit akustischen Volumenwellen arbeitendes BAW-Filter	Granted
B. EPCOS AG	JP	P2011,0358	2014-508782	2-May-2012			Mit akustischen Volumenwellen arbeitendes BAW-Filter	ExamPub
B. EPCOS AG	KR	P2011,0358	10-2013-7029151	2-May-2012			BAW-FILTER OPERATING USING BULK ACOUSTIC WAVES	Pending
B. EPCOS AG	US	P2011,0358	14/115,328	2-May-2012			BAW-FILTER OPERATING USING BULK ACOUSTIC WAVES	Published
B. EPCOS AG	WO	P2011,0358	PCT/EP2012/058028	2-May-2012			BAW-FILTER OPERATING USING BULK ACOUSTIC WAVES	National
B. EPCOS AG	CN	P2011,0415	201220222056.8	17-May-2012		ZL201220222056.8	Surface wave filtering device	Granted
B. EPCOS AG	DE	P2011,0415	102011101756.2	17-May-2011			Surface acoustic filter device for receiver system, has several filters, each filter having one or more detected micro-strip structure tracks that provide different pass-band for each filter	ExamPub
B. EPCOS AG	JP	P2011,0415	2012-002831	14-May-2012		3177250	Surface acoustic filter device for receiver system, has several filters, each filter having one or more detected micro-strip structure tracks that provide different pass-band for each filter	Granted
B. EPCOS AG	CN	P2011,0433	201220233459.2	23-May-2012		ZL201220233459.2	Apparatus having MEMS devices	Granted
B. EPCOS AG	DE	P2011,0433	102011102266.3	23-May-2011		DE102011102266	Anordnung mit einem MEMS-Bauelement und Verfahren zur Herstellung	Granted
B. EPCOS AG	US	P2011,0433	13/472,980	16-May-2012			ARRANGEMENT WITH A MEMS DEVICE AND METHOD OF MANUFACTURING	Published
B. EPCOS AG	DE	P2011,0490	102011103516.1	3-Jun-2011		DE102011103516	Method for filling cavity within micro-electro mechanical system (MEMS) component e.g. microphone, involves forming aperture in the sealing layer using pulsed laser beam so as to open the closed cavity	Granted
B. EPCOS AG	DE	P2011,0759	102011112476.8	5-Sep-2011			Bauelement und Verfahren zum Herstellen eines Bauelements	ExamPub
B. EPCOS AG	US	P2011,0759	14/239,990	10-Aug-2012			Component and Method for Producing a Component	Published

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Count ¹	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	WO	P2011,0759	PCT/EP2012/0657 59	10-Aug-2012			COMPONENT AND METHOD FOR PRODUCING A COMPONENT	National
B. EPCOS AG	CN	P2011,0832	201180073613.2	22-Sep-2011		ZL20118007361 3.2	Frontend circuit for band aggregation modes	Granted
B. EPCOS AG	DE	P2011,0832	112011105649.4	22-Sep-2011			FRONTEND CIRCUIT FOR BAND AGGREGATION MODES	ExamPub
B. EPCOS AG	JP	P2011,0832	2014-531114	22-Sep-2011		5798253	FRONTEND CIRCUIT FOR BAND AGGREGATION MODES	Granted
B. EPCOS AG	US	P2011,0832	14/346,622	22-Sep-2011			Front-end Circuit for Band Aggregation Modes	Allowed
B. EPCOS AG	WO	P2011,0832	PCT/EP2011/0665 43	22-Sep-2011			FRONTEND CIRCUIT FOR BAND AGGREGATION MODES	National
B. EPCOS AG	CN	P2011,0861	201220510913.4	8-Oct-2012		ZL20122051091 3.4	Electric appliance, module, chip	Granted
B. EPCOS AG	DE	P2011,0861	102011114642.7	30-Sep-2011		DE10201111464 2	COMPONENT	Granted
B. EPCOS AG	US	P2011,0861	13/631,836	28-Sep-2012		9,391,587	COMPONENT	Granted
B. EPCOS AG	DE	P2011,0974	112011105817.9	7-Nov-2011			MULTI ANTENNA COMMUNICATION DEVICE WITH IMPROVED TUNING ABILITY	ExamPub
B. EPCOS AG	JP	P2011,0974	2014-537502	7-Nov-2011		5876582	MULTI ANTENNA COMMUNICATION DEVICE WITH IMPROVED TUNING ABILITY	Granted
B. EPCOS AG	US	P2011,0974	14/356,586	7-Nov-2011		9,106,283	MULTI ANTENNA COMMUNICATION DEVICE WITH IMPROVED TUNING ABILITY	Granted
B. EPCOS AG	WO	P2011,0974	PCT/EP2011/0695 61	7-Nov-2011			MULTI ANTENNA COMMUNICATION DEVICE WITH IMPROVED TUNING ABILITY	National
B. EPCOS AG	DE	P2011,1033	102011119660.2	29-Nov-2011		DE10201111966 0	Microacoustic component comprises waveguide, which exhibits waveguide layer having first acoustic wave velocity and first cladding layer directly adjacent to waveguide layer, and electrode for excitation acoustic wave in waveguide	Granted
B. EPCOS AG	JP	P2011,1033	2012-261741	29-Nov-2012			MICROACOUSTIC DEVICE WITH WAVEGUIDE LAYER	ExamPub
B. EPCOS AG	EP	P2012,0012	09802598.4	28-Jul-2009			PIEZOELECTRIC RESONATOR OPERATING IN THICKNESS SHEAR MODE	ExamPub
B. EPCOS AG	US	P2012,0012	61/085,479	1-Aug-2008			PIEZOELECTRIC RESONATOR OPERATING IN THICKNESS SHEAR MODE	Expired

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Count ¹	Family Classnumber	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	US	P2012,0012	13/056,677	28-Jul-2009		8,829,766	Piezoelectric Resonator Operating In Thickness Shear Mode	Granted
B. EPCOS AG	WO	P2012,0012	PCT/IB2009/053274	28-Jul-2009			PIEZOELECTRIC RESONATOR OPERATING IN THICKNESS SHEAR MODE	Expired
B. EPCOS AG	DE	P2012,0452	112012006462.3	5-Jun-2012			SAW FILTER WITH IMPROVED STOP BAND SUPPRESSION	Exam
B. EPCOS AG	JP	P2012,0452	2015-513395	5-Jun-2012		5938522	SAW FILTER WITH IMPROVED STOP BAND SUPPRESSION	Granted
B. EPCOS AG	US	P2012,0452	14/405,392	5-Jun-2012			SAW FILTER WITH IMPROVED STOP BAND SUPPRESSION	Published
B. EPCOS AG	WO	P2012,0452	PCT/EP2012/060611	5-Jun-2012			SAW FILTER WITH IMPROVED STOP BAND SUPPRESSION	National
B. EPCOS AG	DE	P2012,0505	102012105286.7	18-Jun-2012			Mikroakustisches Bauelement mit TCF Kompensationsschicht	ExamPub
B. EPCOS AG	WO	P2012,0505	PCT/EP2013/058385	23-Apr-2013			MICRO-ACOUSTIC COMPONENT COMPRISING A TCF COMPENSATION LAYER	Abandoned
B. EPCOS AG	DE	P2012,0674	102012107049.0	1-Aug-2012			ELECTROACOUSTIC TRANSDUCER	ExamPub
B. EPCOS AG	JP	P2012,0674	2015-524701	11-Jul-2013		5953434	ELECTROACOUSTIC TRANSDUCER	Granted
B. EPCOS AG	US	P2012,0674	14/418,930	11-Jul-2013			ELECTROACOUSTIC TRANSDUCER	Allowed
B. EPCOS AG	WO	P2012,0674	PCT/EP2013/064726	11-Jul-2013			ELECTROACOUSTIC TRANSDUCER	National
B. EPCOS AG	DE	P2012,0691	102012107155.1	3-Aug-2012			TOPOGRAPHICAL STRUCTURE AND METHOD FOR PRODUCING IT	ExamPub
B. EPCOS AG	JP	P2012,0691	2015-524779	31-Jul-2013			TOPOGRAPHICAL STRUCTURE AND METHOD FOR PRODUCING IT	ExamPub
B. EPCOS AG	US	P2012,0691	14/413,285	31-Jul-2013			TOPOGRAPHICAL STRUCTURE AND METHOD FOR PRODUCING IT	Published
B. EPCOS AG	WO	P2012,0691	PCT/EP2013/066115	31-Jul-2013			TOPOGRAPHICAL STRUCTURE AND METHOD FOR PRODUCING IT	National
B. EPCOS AG	CN	P2012,0707	201310341290.1	7-Aug-2013			DUPLEXER WITH PHASE SHIFTER CIRCUIT	ExamPub
B. EPCOS AG	DE	P2012,0707	102012107244.2	7-Aug-2012			DUPLEXER WITH PHASE SHIFTER CIRCUIT	ExamPub
B. EPCOS AG	US	P2012,0707	13/958,466	2-Aug-2013		9,197,186	DUPLEXER WITH PHASE SHIFTER CIRCUIT	Granted
B. EPCOS AG	DE	P2012,0786	102012107876.9	27-Aug-2012			Trägerplatte, Vorrichtung mit Trägerplatte sowie Verfahren zur Herstellung einer Trägerplatte	ExamPub

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	JP	P2012,0786	2015-528944	9-Aug-2013			CARRIER PLATE, DEVICE HAVING THE CARRIER PLATE AND METHOD FOR PRODUCING A CARRIER PLATE	ExamPub
B. EPCOS AG	US	P2012,0786	14/424,754	9-Aug-2013			CARRIER PLATE, DEVICE HAVING THE CARRIER PLATE AND METHOD FOR PRODUCING A CARRIER PLATE	Published
B. EPCOS AG	WO	P2012,0786	PCT/EP2013/066731	9-Aug-2013			CARRIER PLATE, DEVICE HAVING THE CARRIER PLATE AND METHOD FOR PRODUCING A CARRIER PLATE	National
B. EPCOS AG	DE	P2012,0790	102012107877.7	27-Aug-2012		102012107877	DUPLEXER	Granted
B. EPCOS AG	JP	P2012,0790	2015-528929	29-Jul-2013			DUPLEXER	ExamPub
B. EPCOS AG	US	P2012,0790	14/424,975	29-Jul-2013			DUPLEXER	Allowed
B. EPCOS AG	WO	P2012,0790	PCT/EP2013/065919	29-Jul-2013			DUPLEXER	National
B. EPCOS AG	DE	P2012,0791	102012107873.4	27-Aug-2012			Duplexer for mobile communication apparatus of long term evolution system, has transmitting terminal which is connected to ports of hybrid unit and conductor structure of transmitting filter provided on support substrate	ExamPub
B. EPCOS AG	DE	P2012,0803	102012108106.9	31-Aug-2012		102012108106	MEMS COMPONENT AND METHOD FOR PRODUCING AN MEMS COMPONENT THAT WORKS WITH ACOUSTIC WAVES	Granted
B. EPCOS AG	JP	P2012,0803	2015-526922	31-Jul-2013		5926459	MEMS COMPONENT AND METHOD FOR PRODUCING AN MEMS COMPONENT THAT WORKS WITH ACOUSTIC WAVES	Granted
B. EPCOS AG	US	P2012,0803	14/424,992	31-Jul-2013			MEMS COMPONENT AND METHOD FOR PRODUCING AN MEMS COMPONENT THAT WORKS WITH ACOUSTIC WAVES	Published
B. EPCOS AG	WO	P2012,0803	PCT/EP2013/066109	31-Jul-2013			MEMS COMPONENT AND METHOD FOR PRODUCING AN MEMS COMPONENT THAT WORKS WITH ACOUSTIC WAVES	National
B. EPCOS AG	DE	P2012,0806	102012108030.5	30-Aug-2012			MULTIPLER HAVING FEWER INTERMODULATION PRODUCTS	ExamPub
B. EPCOS AG	EP	P2012,0806	13742458.6	30-Jul-2013			MULTIPLER HAVING FEWER INTERMODULATION PRODUCTS	ExamPub
B. EPCOS AG	JP	P2012,0806	2015-528932	30-Jul-2013			MULTIPLER HAVING FEWER INTERMODULATION PRODUCTS	ExamPub

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	KR	P2012,0806	10-2015-7008169	30-Jul-2013			MULTIPLEXER HAVING FEWER INTERMODULATION PRODUCTS	Pending
B. EPCOS AG	US	P2012,0806	14/424,982	30-Jul-2013			MULTIPLEXER HAVING FEWER INTERMODULATION PRODUCTS	Published
B. EPCOS AG	WO	P2012,0806	PCT/EP2013/066014	30-Jul-2013			MULTIPLEXER HAVING FEWER INTERMODULATION PRODUCTS	National
B. EPCOS AG	DE	P2012,0807	102012108035.6	30-Aug-2012		102012108035	CAPACITOR HAVING AN IMPROVED LINEAR BEHAVIOR	Granted
B. EPCOS AG	JP	P2012,0807	2015-528939	1-Aug-2013			CAPACITOR HAVING AN IMPROVED LINEAR BEHAVIOR	ExamPub
B. EPCOS AG	US	P2012,0807	14/424,989	1-Aug-2013			CAPACITOR HAVING AN IMPROVED LINEAR BEHAVIOR	Published
B. EPCOS AG	WO	P2012,0807	PCT/EP2013/066212	1-Aug-2013			CAPACITOR HAVING AN IMPROVED LINEAR BEHAVIOR	National
B. EPCOS AG	DE	P2012,1070	102012110504.9	2-Nov-2012			Elektroakustisches Filter mit Tiefpasscharakteristik	ExamPub
B. EPCOS AG	JP	P2012,1070	2015-540080	27-Sep-2013			ELECTROACOUSTIC FILTER COMPRISING LOW-PASS CHARACTERISTICS	ExamPub
B. EPCOS AG	US	P2012,1070	14/438,598	27-Sep-2013			ELECTROACOUSTIC FILTER COMPRISING LOW-PASS CHARACTERISTICS	Published
B. EPCOS AG	WO	P2012,1070	PCT/EP2013/070235	27-Sep-2013			ELECTROACOUSTIC FILTER COMPRISING LOW-PASS CHARACTERISTICS	National
B. EPCOS AG	DE	P2012,1126	102012111121.9	19-Nov-2012			Elektroakustisches Bauelement und Verfahren zur Herstellung	ExamPub
B. EPCOS AG	JP	P2012,1126	2015-542220	6-Nov-2013			ELECTROACOUSTIC COMPONENT AND METHOD FOR THE PRODUCTION THEREOF	ExamPub
B. EPCOS AG	US	P2012,1126	14/434,370	6-Nov-2013			ELECTROACOUSTIC COMPONENT AND METHOD FOR THE PRODUCTION THEREOF	Published
B. EPCOS AG	WO	P2012,1126	PCT/EP2013/073181	6-Nov-2013			ELECTROACOUSTIC COMPONENT AND METHOD FOR THE PRODUCTION THEREOF	National
B. EPCOS AG	DE	P2012,1189	102012112058.7	11-Dec-2012			MEMS-Bauelement und Verfahren zur Verkapselung von MEMS-Bauelementen	ExamPub
B. EPCOS AG	JP	P2012,1189	2015-546902	14-Oct-2013			MEMS COMPONENT AND METHOD FOR ENCAPSULATING MEMS COMPONENTS	ExamPub
B. EPCOS AG	US	P2012,1189	14/650,538	14-Oct-2013			MEMS COMPONENT AND METHOD FOR ENCAPSULATING MEMS COMPONENTS	Published

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Count ¹	Family Case number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	WO	P2012,1189	PCT/EP2013/071396	14-Oct-2013			MEMS COMPONENT AND METHOD FOR ENCAPSULATING MEMS COMPONENTS	National
B. EPCOS AG	CN	P2012,1190	201380064071.1	14-Oct-2013			ELECTROACOUSTIC TRANSDUCER	ExamPub
B. EPCOS AG	DE	P2012,1190	102012111889.2	6-Dec-2012		DE102012111889	Elektroakustischer Wandler	Granted
B. EPCOS AG	JP	P2012,1190	2015-545704	14-Oct-2013			ELECTROACOUSTIC TRANSDUCER	ExamPub
B. EPCOS AG	US	P2012,1190	14/650,230	14-Oct-2013		9,497,551	ELECTROACOUSTIC TRANSDUCER	Granted
B. EPCOS AG	WO	P2012,1190	PCT/EP2013/071425	14-Oct-2013			ELECTROACOUSTIC TRANSDUCER	National
B. EPCOS AG	DE	P2012,1224	102012112237.7	13-Dec-2012			Elektroakustisches Bandpassfilter mit geglätteter Einfügedämpfung	ExamPub
B. EPCOS AG	JP	P2012,1224	2015-546904	17-Oct-2013			ELECTROACOUSTIC BANDPASS FILTER HAVING SMOOTHED INSERTION LOSS	ExamPub
B. EPCOS AG	US	P2012,1224	14/646,496	17-Oct-2013		9,247,351	ELECTROACOUSTIC BANDPASS FILTER HAVING SMOOTHED INSERTION LOSS	Granted
B. EPCOS AG	WO	P2012,1224	PCT/EP2013/071746	17-Oct-2013			ELECTROACOUSTIC BANDPASS FILTER HAVING SMOOTHED INSERTION LOSS	National
B. EPCOS AG	DE	P2012,1238	102012112571.6	18-Dec-2012		DE102012112571	Schaltungsanordnung	Granted
B. EPCOS AG	JP	P2012,1238	2015-548316	27-Nov-2013			CIRCUIT ARRANGEMENT	Allowed
B. EPCOS AG	US	P2012,1238	14/650,300	27-Nov-2013			CIRCUIT ARRANGEMENT	Published
B. EPCOS AG	WO	P2012,1238	PCT/EP2013/074890	27-Nov-2013			CIRCUIT ARRANGEMENT	National
B. EPCOS AG	DE	P2012,1262	112012007245.6	21-Dec-2012			BAW COMPONENT AND METHOD FOR MANUFACTURING A BAW COMPONENT	ExamPub
B. EPCOS AG	JP	P2012,1262	2015-548231	21-Dec-2012		6023351	BAW COMPONENT AND METHOD FOR MANUFACTURING A BAW COMPONENT	Granted
B. EPCOS AG	US	P2012,1262	14/654,480	21-Dec-2012			BAW COMPONENT AND METHOD FOR MANUFACTURING A BAW COMPONENT	Published
B. EPCOS AG	WO	P2012,1262	PCT/EP2012/076710	21-Dec-2012			BAW COMPONENT AND METHOD FOR MANUFACTURING A BAW COMPONENT	National
B. EPCOS AG	EP	P2012,1263	12818510.5	21-Dec-2012			MEMS COMPONENT COMPRISING ALN AND SC AND METHOD FOR MANUFACTURING A MEMS COMPONENT	ExamPub

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	JP	P2012,1263	2015-548233	21-Dec-2012			MEMS COMPONENT COMPRISING ALN AND SC AND METHOD FOR MANUFACTURING A MEMS COMPONENT	ExamPub
B. EPCOS AG	US	P2012,1263	14/653,829	21-Dec-2012			MEMS COMPONENT COMPRISING ALN AND SC AND METHOD FOR MANUFACTURING A MEMS COMPONENT	Published
B. EPCOS AG	WO	P2012,1263	PCT/EP2012/076723	21-Dec-2012			MEMS COMPONENT COMPRISING ALN AND SC AND METHOD FOR MANUFACTURING A MEMS COMPONENT	National
B. EPCOS AG	CN	P2012,1264	201280077848.3	21-Dec-2012			BAW Component, Lamination for a BAW Component, and Method for Manufacturing a BAW Component	ExamPub
B. EPCOS AG	DE	P2012,1264	112012007237.5	21-Dec-2012			BAW Component, Lamination for a BAW Component, and Method for Manufacturing a BAW Component	ExamPub
B. EPCOS AG	JP	P2012,1264	2015-548232	21-Dec-2012			BAW Component, Lamination for a BAW Component, and Method for Manufacturing a BAW Component	ExamPub
B. EPCOS AG	US	P2012,1264	14/653,768	21-Dec-2012			BAW Component, Lamination for a BAW Component, and Method for Manufacturing a BAW Component	Published
B. EPCOS AG	WO	P2012,1264	PCT/EP2012/076714	21-Dec-2012			BAW COMPONENT, LAMINATION FOR A BAW COMPONENT, AND METHOD FOR MANUFACTURING A BAW COMPONENT COMPRISING TWO STACKED PIEZOELECTRIC MATERIALS THAT DIFFER	National
B. EPCOS AG	DE	P2013,0032	102013100286.2	11-Jan-2013		DE102013100286	Breitbandiges Filter in Abzweigtechnik	Granted
B. EPCOS AG	JP	P2013,0032	2015-552014	5-Dec-2013			BROAD-BAND FILTER IN BRANCHING TECHNOLOGY	ExamPub
B. EPCOS AG	US	P2013,0032	14/760,184	5-Dec-2013			BROAD-BAND FILTER IN BRANCHING TECHNOLOGY	Published
B. EPCOS AG	WO	P2013,0032	PCT/EP2013/075674	5-Dec-2013			BROAD-BAND FILTER IN BRANCHING TECHNOLOGY	National
B. EPCOS AG	CN	P2013,0219	201480012698.7	20-Feb-2014			MICROACOUSTIC COMPONENT AND METHOD FOR THE PRODUCTION THEREOF	ExamPub

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Count ¹	Family Casenumber	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	DE	P2013,0219	102013102217.0	6-Mar-2013		102013102217	MICROACOUSTIC COMPONENT AND METHOD FOR THE PRODUCTION THEREOF	Granted
B. EPCOS AG	JP	P2013,0219	2015-560609	20-Feb-2014			MICROACOUSTIC COMPONENT AND METHOD FOR THE PRODUCTION THEREOF	ExamPub
B. EPCOS AG	KR	P2013,0219	10-2015-7027309	20-Feb-2014			MICROACOUSTIC COMPONENT AND METHOD FOR THE PRODUCTION THEREOF	Allowed
B. EPCOS AG	US	P2013,0219	14/773,290	20-Feb-2014			MICROACOUSTIC COMPONENT AND METHOD FOR THE PRODUCTION THEREOF	Published
B. EPCOS AG	WO	P2013,0219	PCT/EP2014/053350	20-Feb-2014			MICROACOUSTIC COMPONENT AND METHOD FOR THE PRODUCTION THEREOF	National
B. EPCOS AG	DE	P2013,0221	102013102213.8	6-Mar-2013			MINIATURIZED COMPONENT AND METHOD FOR THE PRODUCTION THEREOF	ExamPub
B. EPCOS AG	JP	P2013,0221	2015-560601	5-Feb-2014			MINIATURIZED COMPONENT AND METHOD FOR THE PRODUCTION THEREOF	ExamPub
B. EPCOS AG	US	P2013,0221	14/773,270	5-Feb-2014			MINIATURIZED COMPONENT AND METHOD FOR THE PRODUCTION THEREOF	Pending
B. EPCOS AG	WO	P2013,0221	PCT/EP2014/052250	5-Feb-2014			MINIATURIZED COMPONENT AND METHOD FOR THE PRODUCTION THEREOF	National
B. EPCOS AG	DE	P2013,0225	102013102206.5	6-Mar-2013		102013102206	COMPONENT COMPRISING STACKED FUNCTIONAL STRUCTURES AND METHOD FOR PRODUCING SAME	Granted
B. EPCOS AG	JP	P2013,0225	2015-560628	27-Feb-2014			COMPONENT COMPRISING STACKED FUNCTIONAL STRUCTURES AND METHOD FOR PRODUCING SAME	ExamPub
B. EPCOS AG	US	P2013,0225	14/766,674	27-Feb-2014			COMPONENT COMPRISING STACKED FUNCTIONAL STRUCTURES AND METHOD FOR PRODUCING SAME	Pending
B. EPCOS AG	WO	P2013,0225	PCT/EP2014/053860	27-Feb-2014			COMPONENT COMPRISING STACKED FUNCTIONAL STRUCTURES AND METHOD FOR PRODUCING SAME	National
B. EPCOS AG	DE	P2013,0238	102013102223.5	6-Mar-2013		102013102223	MINIATURISED MULTI-PART COMPONENT AND METHOD FOR PRODUCING SAME	Granted
B. EPCOS AG	JP	P2013,0238	2015-560596	29-Jan-2014			MINIATURISED MULTI-PART COMPONENT AND METHOD FOR PRODUCING SAME	ExamPub
B. EPCOS AG	KR	P2013,0238	10-2015-7027307	29-Jan-2014			MINIATURISED MULTI-PART COMPONENT AND METHOD FOR PRODUCING SAME	Allowed

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	US	P2013,0238	14/772,587	29-Jan-2014			MINIATURISED MULTI-PART COMPONENT AND METHOD FOR PRODUCING SAME	Published
B. EPCOS AG	WO	P2013,0238	PCT/EP2014/051710	29-Jan-2014			MINIATURISED MULTI-PART COMPONENT AND METHOD FOR PRODUCING SAME	National
B. EPCOS AG	DE	P2013,0239	102013102210.3	6-Mar-2013		102013102210	ELECTRICAL COMPONENT SUITABLE FOR MINIATURIZATION WITH REDUCED COUPLING	Granted
B. EPCOS AG	JP	P2013,0239	2015-560595	28-Jan-2014			ELECTRICAL COMPONENT SUITABLE FOR MINIATURIZATION WITH REDUCED COUPLING	ExamPub
B. EPCOS AG	US	P2013,0239	14/770,977	28-Jan-2014			ELECTRICAL COMPONENT SUITABLE FOR MINIATURIZATION WITH REDUCED COUPLING	Published
B. EPCOS AG	WO	P2013,0239	PCT/EP2014/051629	28-Jan-2014			ELECTRICAL COMPONENT SUITABLE FOR MINIATURIZATION WITH REDUCED COUPLING	National
B. EPCOS AG	EP	P2013,0263	13709251.6	15-Mar-2013			REACTANCE FILTER COMPRISING ACOUSTIC WAVES RESONATORS	ExamPub
B. EPCOS AG	JP	P2013,0263	2015-561953	15-Mar-2013			REACTANCE FILTER COMPRISING ACOUSTIC WAVES RESONATORS	ExamPub
B. EPCOS AG	US	P2013,0263	14/763,494	15-Mar-2013			REACTANCE FILTER COMPRISING ACOUSTIC WAVES RESONATORS	Published
B. EPCOS AG	WO	P2013,0263	PCT/EP2013/055439	15-Mar-2013			REACTANCE FILTER COMPRISING ACOUSTIC WAVES RESONATORS	National
B. EPCOS AG	DE	P2013,0373	112013006963.6	17-Apr-2013			CIRCUIT ARRANGEMENT	ExamPub
B. EPCOS AG	JP	P2013,0373	2016-508018	17-Apr-2013			CIRCUIT ARRANGEMENT	ExamPub
B. EPCOS AG	US	P2013,0373	14/779,267	17-Apr-2013			CIRCUIT ARRANGEMENT	Pending
B. EPCOS AG	WO	P2013,0373	PCT/EP2013/057997	17-Apr-2013			CIRCUIT ARRANGEMENT	National
B. EPCOS AG	DE	P2013,0528	102013104842.0	10-May-2013		102013104842	RF COMPONENT WITH REDUCED COUPLING AND SUITABLE FOR MINIATURISATION	Granted
B. EPCOS AG	JP	P2013,0528	2016-512262	15-Apr-2014			RF COMPONENT WITH REDUCED COUPLING AND SUITABLE FOR MINIATURISATION	ExamPub
B. EPCOS AG	US	P2013,0528	14/784,201	15-Apr-2014			RF COMPONENT WITH REDUCED COUPLING AND SUITABLE FOR MINIATURISATION	Allowed

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	WO	P2013,0528	PCT/EP2014/0576 27	15-Apr-2014			RF COMPONENT WITH REDUCED COUPLING AND SUITABLE FOR MINIATURISATION	National
B. EPCOS AG	DE	P2013,0587	112013007109.6	24-May-2013			MICROELECTROMECHANICAL SYSTEMS PRODUCING THE MICROELECTROMECHANICAL SYSTEMS DEVICE PACKAGE	ExamPub
B. EPCOS AG	JP	P2013,0587	2016-514278	24-May-2013			MICROELECTROMECHANICAL SYSTEMS DEVICE PACKAGE AND METHOD FOR PRODUCING THE MICROELECTROMECHANICAL SYSTEMS DEVICE PACKAGE	ExamPub
B. EPCOS AG	US	P2013,0587	14/784,351	24-May-2013		9,479,138	MICROELECTROMECHANICAL SYSTEMS DEVICE PACKAGE AND METHOD FOR PRODUCING THE MICROELECTROMECHANICAL SYSTEMS DEVICE PACKAGE	Granted
B. EPCOS AG	WO	P2013,0587	PCT/EP2013/0607 76	24-May-2013			MICROELECTROMECHANICAL SYSTEMS DEVICE PACKAGE AND METHOD FOR PRODUCING THE MICROELECTROMECHANICAL SYSTEMS DEVICE PACKAGE	National
B. EPCOS AG	DE	P2013,0631	102013105999.6	10-Jun-2013			MOBILE TRANSCIVER WITH SHARED USER FILTER, METHOD FOR THE OPERATION OF SAID MOBILE TRANSCIVER AND USE OF A FILTER	ExamPub
B. EPCOS AG	JP	P2013,0631	2016-518883	5-May-2014			Mobilfunkgerät mit gemeinsam genutztem Filter, Verfahren zum Betrieb des Mobilfunkgeräts und Verwendung eines Filters	Exam
B. EPCOS AG	US	P2013,0631	14/894,275	5-May-2014			Mobile Transceiver with Shared User Filter, Method for the Operation of the Mobile Transceiver and Use of a Filter	Pending
B. EPCOS AG	WO	P2013,0631	PCT/EP2014/0590 84	5-May-2014			MOBILE TRANSCIVER WITH SHARED USER FILTER, METHOD FOR THE OPERATION OF SAID MOBILE TRANSCIVER AND USE OF A FILTER	National
B. EPCOS AG	EP	P2013,0732	14726975.7	27-May-2014			MULTILAYER WIRING SUBSTRATE	ExamPub
B. EPCOS AG	JP	P2013,0732	2013-115818	31-May-2013			Multilayered Wiring Board	ExamPub
B. EPCOS AG	US	P2013,0732	14/889,385	27-May-2014			MULTILAYER WIRING SUBSTRATE	Allowed

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	WO	P2013,0732	PCT/EP2014/060976	27-May-2014			MULTILAYER WIRING SUBSTRATE	National
B. EPCOS AG	EP	P2013,0755	12858544.5	29-Nov-2012			MULTILAYER GLASS CERAMIC SUBSTRATE WITH EMBEDDED RESISTOR	ExamPub
B. EPCOS AG	JP	P2013,0755	2011-276172	16-Dec-2011			MULTILAYER GLASS CERAMIC SUBSTRATE WITH EMBEDDED RESISTOR	Withdrawn
B. EPCOS AG	JP	P2013,0755	2013-549198	29-Nov-2012			MULTILAYER GLASS CERAMIC SUBSTRATE WITH EMBEDDED RESISTOR	Exam
B. EPCOS AG	US	P2013,0755	14365,965	29-Nov-2012			MULTILAYER GLASS CERAMIC SUBSTRATE WITH EMBEDDED RESISTOR	Published
B. EPCOS AG	WO	P2013,0755	PCT/JP2012/080810	29-Nov-2012			MULTILAYER GLASS CERAMIC SUBSTRATE WITH EMBEDDED RESISTOR	National
B. EPCOS AG	EP	P2013,0800	13745602.6	18-Jul-2013			Electroacoustic transducer with improved suppression of unwanted modes	ExamPub
B. EPCOS AG	JP	P2013,0800	2016-526454	18-Jul-2013			Electroacoustic transducer with improved suppression of unwanted modes	ExamPub
B. EPCOS AG	US	P2013,0800	14/904,561	18-Jul-2013			Electroacoustic transducer with improved suppression of unwanted modes	Pending
B. EPCOS AG	WO	P2013,0800	PCT/EP2013/065227	18-Jul-2013			Electroacoustic transducer with improved suppression of unwanted modes	National
B. EPCOS AG	DE	P2013,1228	102013111798.8	25-Oct-2013			Duplexer	ExamPub
B. EPCOS AG	WO	P2013,1228	PCT/EP2014/069708	16-Sep-2014			DUPLEXER HAVING AN ISOLATOR IN THE TRANSMISSION PATH	Abandoned
B. EPCOS AG	DE	P2013,1354	112013007619.5	22-Nov-2013			HF-Antennenschalter und Verfahren zum Betreiben des Antennenschalters	ExamPub
B. EPCOS AG	JP	P2013,1354	2016-533045	22-Nov-2013			RF ANTENNA SWITCH AND METHOD OF OPERATING THE ANTENNA SWITCH	ExamPub
B. EPCOS AG	US	P2013,1354	15/038,096	22-Nov-2013			RF ANTENNA SWITCH AND METHOD OF OPERATING THE ANTENNA SWITCH	Published
B. EPCOS AG	WO	P2013,1354	PCT/EP2013/074493	22-Nov-2013			RF ANTENNA SWITCH AND METHOD OF OPERATING THE ANTENNA SWITCH	National
B. EPCOS AG	DE	P2013,1440	112013007684.5	11-Dec-2013			FRONTEND-SCHALTUNG UND VERFAHREN ZUM BETRIEB EINER FRONTEND-SCHALTUNG	ExamPub
B. EPCOS AG	JP	P2013,1440	2016-538509	11-Dec-2013			FRONT END CIRCUIT AND METHOD OF OPERATING A FRONT END CIRCUIT	Exam

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	US	P2013,1440	15/102,858	11-Dec-2013			FRONT END CIRCUIT AND METHOD OF OPERATING A FRONT END CIRCUIT	Published
B. EPCOS AG	WO	P2013,1440	PCT/EP2013/076246	11-Dec-2013			FRONT END CIRCUIT AND METHOD OF OPERATING A FRONT END CIRCUIT	National
B. EPCOS AG	JP	P2013,1475	2014-245040	3-Dec-2014		5997240	METHOD OF HERMETICALLY SEALING A HOLE WITH A FUSE MATERIAL	Granted
B. EPCOS AG	DE	P2014,0020	112014006173.5	15-Jan-2014			ELEKTROAKUSTISCHES FILTER UND VERFAHREN ZUM HERSTELLEN EINES ELEKTROAKUSTISCHEN FILTERS	ExamPub
B. EPCOS AG	JP	P2014,0020	2016-546753	15-Jan-2014			ELECTROACOUSTIC FILTER AND METHOD OF MANUFACTURING AN ELECTROACOUSTIC FILTER	Exam
B. EPCOS AG	US	P2014,0020	15/112,153	15-Jan-2014			ELECTROACOUSTIC FILTER AND METHOD OF MANUFACTURING AN ELECTROACOUSTIC FILTER	Published
B. EPCOS AG	WO	P2014,0020	PCT/EP2014/050679	15-Jan-2014			ELECTROACOUSTIC FILTER AND METHOD OF MANUFACTURING AN ELECTROACOUSTIC FILTER	National
B. EPCOS AG	DE	P2014,0147	102014102207.6	20-Feb-2014			TUNABLE DUPLEXER HAVING A CIRCULATOR	ExamPub
B. EPCOS AG	JP	P2014,0147	2016-553366	22-Jan-2015			Abstimmbarer Duplexer mit einem Zirkulator	Exam
B. EPCOS AG	US	P2014,0147	15/120,481	22-Jan-2015			Tunable Duplexer Having a Circulator	Pending
B. EPCOS AG	WO	P2014,0147	PCT/EP2015/051223	22-Jan-2015			TUNABLE DUPLEXER HAVING A CIRCULATOR	National
B. EPCOS AG	DE	P2014,0187	102014102518.0	26-Feb-2014			PACKAGE FOR A TUNABLE FILTER	ExamPub
B. EPCOS AG	JP	P2014,0187	2016-554245	10-Jun-2014			Package für ein abstimmbares Filter	Exam
B. EPCOS AG	US	P2014,0187	15/118,853	10-Jun-2014			Package for a tunable filter	Pending
B. EPCOS AG	WO	P2014,0187	PCT/EP2014/062009	10-Jun-2014			PACKAGE FOR A TUNABLE FILTER	National
B. EPCOS AG	DE	P2014,0192	102014102521.0	26-Feb-2014			TUNABLE HF FILTER CIRCUIT	ExamPub
B. EPCOS AG	JP	P2014,0192	2016-554194	30-May-2014			Abstimmbare HF-Filterschaltung	Exam
B. EPCOS AG	US	P2014,0192	15/117,383	30-May-2014			Tunable RF filter circuit	Pending
B. EPCOS AG	WO	P2014,0192	PCT/EP2014/061264	30-May-2014			TUNABLE HF FILTER CIRCUIT	National

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	DE	P2014,0208	102014102707.8	28-Feb-2014			TUNABLE ELECTROACOUSTIC HF FILTER WITH IMPROVED ELECTRIC PROPERTIES AND METHOD FOR OPERATING SAID TYPE OF FILTER	ExamPub
B. EPCOS AG	JP	P2014,0208	2016-554487	30-May-2014			Abstimmbares elektroakustisches HF-Filter mit verbesserten elektrischen Eigenschaften und Verfahren zum Betrieb eines solchen Filters	Exam
B. EPCOS AG	US	P2014,0208	15/117,390	30-May-2014			Tunable electroacoustic RF filter with improved electric properties and method for operating such a filter	Pending
B. EPCOS AG	WO	P2014,0208	PCT/EP2014/061261	30-May-2014			TUNABLE ELECTROACOUSTIC HF FILTER WITH IMPROVED ELECTRIC PROPERTIES AND METHOD FOR OPERATING SAID TYPE OF FILTER	National
B. EPCOS AG	DE	P2014,0210	102014102699.3	28-Feb-2014			Front-end Schaltung	ExamPub
B. EPCOS AG	JP	P2014,0210	2016-554466	3-Jun-2014			Front-end Schaltung für gleichzeitigen Send- und Empfangsbetrieb	Exam
B. EPCOS AG	US	P2014,0210	15/119,476	3-Jun-2014			Front-end circuit for simultaneous transmission and reception operation	Pending
B. EPCOS AG	WO	P2014,0210	PCT/EP2014/061477	3-Jun-2014			FRONT-END CIRCUIT FOR SIMULTANEOUS TRANSMISSION AND RECEPTION OPERATION	National
B. EPCOS AG	DE	P2014,0211	102014102701.9	28-Feb-2014		102014102701	FRONT-END CIRCUIT HAVING A TUNABLE FILTER	Granted
B. EPCOS AG	JP	P2014,0211	2016-554482	6-Jun-2014			Frontendschaltung mit einem abstimmbaren Filter	Exam
B. EPCOS AG	US	P2014,0211	15/120,082	6-Jun-2014			Front-end circuit having a tunable filter	Pending
B. EPCOS AG	WO	P2014,0211	PCT/EP2014/061870	6-Jun-2014			FRONT-END CIRCUIT HAVING A TUNABLE FILTER	National
B. EPCOS AG	DE	P2014,0212	102014102704.3	28-Feb-2014			COMBINED IMPEDANCE ADJUSTMENT AND HF FILTER CIRCUIT	ExamPub
B. EPCOS AG	JP	P2014,0212	2016-554484	5-Jun-2014			Kombinierte Impedanzanpass- und HF- Filterschaltung	Exam
B. EPCOS AG	US	P2014,0212	15/116,073	5-Jun-2014			Combined impedance matching an RF filter circuit	Pending
B. EPCOS AG	WO	P2014,0212	PCT/EP2014/061715	5-Jun-2014			COMBINED IMPEDANCE ADJUSTMENT AND HF FILTER CIRCUIT	National
B. EPCOS AG	DE	P2014,0230	102014103229.2	11-Mar-2014		102014103229	BAW RESONATOR HAVING TEMPERATURE COMPENSATION	Granted

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Class number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	JP	P2014,0230	2016-555481	12-Feb-2015			BAW-Resonator mit Temperaturkompensation	Exam
B. EPCOS AG	US	P2014,0230	15/120,810	12-Feb-2015			BAW resonator having temperature compensation	Pending
B. EPCOS AG	WO	P2014,0230	PCT/EP2015/052965	12-Feb-2015			BAW RESONATOR HAVING TEMPERATURE COMPENSATION	National
B. EPCOS AG	DE	P2014,0253	112014006466.1	14-Mar-2014			Frontend-Modul für Trägeraggregationsbetriebsart	ExamPub
B. EPCOS AG	JP	P2014,0253	based on PCT/EP2014/055114 (national application number not known yet)	14-Mar-2014			Front-end module for carrier aggregation mode	Exam
B. EPCOS AG	US	P2014,0253	15/120,873	14-Mar-2014			Front-end module for carrier aggregation mode	Pending
B. EPCOS AG	WO	P2014,0253	PCT/EP2014/055114	14-Mar-2014			Front-end module for carrier aggregation mode	National
B. EPCOS AG	DE	P2014,0322	102014105860.7	25-Apr-2014			Elektroakustisches Bauelement und Kristallschnitte für elektroakustische Bauelemente	ExamPub
B. EPCOS AG	JP	P2014,0322	2016-564174	13-Apr-2015			Elektroakustisches Bauelement und Kristallschnitte für elektroakustische Bauelemente	Exam
B. EPCOS AG	US	P2014,0322	15/301,882	13-Apr-2015			Electroacoustic component and crystal cuts for electroacoustic components	Pending
B. EPCOS AG	WO	P2014,0322	PCT/EP2015/057951	13-Apr-2015			Elektroakustisches Bauelement und Kristallschnitte für elektroakustische Bauelemente	National
B. EPCOS AG	DE	P2014,0502	112014006682.6	19-May-2014			Multipler und Mobilkommunikationsvorrichtung mit einem Multipler	Exam
B. EPCOS AG	JP	P2014,0502	2016-568676	19-May-2014			Multipler and mobile communication device comprising a multipler	Exam
B. EPCOS AG	US	P2014,0502	15/308,569	19-May-2014			Multipler and mobile communication device comprising a multipler	Pending
B. EPCOS AG	WO	P2014,0502	PCT/EP2014/060250	19-May-2014			Multipler and mobile communication device comprising a multipler	National
B. EPCOS AG	DE	P2014,0618	based on PCT/EP2014/063296 (national application number not known yet)	24-Jun-2014			ELEKTROAKUSTISCHER WANDLER UND ELEKTROAKUSTISCHE KOMPONENTE MIT ELEKTROAKUSTISCHEM WANDLER	Exam
B. EPCOS AG	JP	P2014,0618	2016-575494	24-Jun-2014			Electro-acoustic transducer and electro-acoustic component comprising an electro-acoustic transducer	Exam

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	US	P2014,0618	15/314,087	24-Jun-2014			Electro-acoustic transducer and electro-acoustic component comprising an electro-acoustic transducer	Pending
B. EPCOS AG	WO	P2014,0618	PCT/EP2014/063296	24-Jun-2014			Electro-acoustic transducer and electro-acoustic component comprising an electro-acoustic transducer	National
B. EPCOS AG	DE	P2014,0663	based on PCT/EP2015/061887 (national application number not known yet)	28-May-2015			RF-FILTERSCHALTUNG, RF-FILTER MIT VERBESSERTER DAMPFUNG UND DUPLEXER MIT VERBESSERTER ISOLIERUNG	Exam
B. EPCOS AG	JP	P2014,0663	based on PCT/EP2015/061887 (national application number not known yet)	28-May-2015			RF FILTER CIRCUIT, RF FILTER WITH IMPROVED ATTENUATION AND DUPLEXER WITH IMPROVED ISOLATION	Exam
B. EPCOS AG	US	P2014,0663	14/726,297	29-May-2015			RF FILTER CIRCUIT, RF FILTER WITH IMPROVED ATTENUATION AND DUPLEXER WITH IMPROVED ISOLATION	Allowed
B. EPCOS AG	US	P2014,0663	62/019,335	30-Jun-2014			RF FILTER CIRCUIT, RF FILTER WITH IMPROVED ATTENUATION AND DUPLEXER WITH IMPROVED ISOLATION	Expired
B. EPCOS AG	WO	P2014,0663	PCT/EP2015/061887	28-May-2015			RF FILTER CIRCUIT, RF FILTER WITH IMPROVED ATTENUATION AND DUPLEXER WITH IMPROVED ISOLATION	National
B. EPCOS AG	DE	P2014,0671	10/2014109264.3	2-Jul-2014			Resonatorschaltung mit erweiterten Freiheitsgraden, Filter mit verbesserter Abstimmbarkeit und Duplexer mit verbesserter Abstimmbarkeit	ExamPub
B. EPCOS AG	JP	P2014,0671	2016-570328	28-May-2015			Resonatorschaltung mit erweiterten Freiheitsgraden, Filter mit verbesserter Abstimmbarkeit und Duplexer mit verbesserter Abstimmbarkeit	Exam
B. EPCOS AG	US	P2014,0671	15/315,372	28-May-2015			Resonator circuit having greater degrees of freedom, filter with improved tunability, and duplexer with improved tunability	Pending
B. EPCOS AG	WO	P2014,0671	PCT/EP2015/061874	28-May-2015			Resonatorschaltung mit erweiterten Freiheitsgraden, Filter mit verbesserter Abstimmbarkeit und Duplexer mit verbesserter Abstimmbarkeit	National
B. EPCOS AG	DE	P2014,0775	10/2014110905.8	31-Jul-2014			Duplexer mit verbesserter Reflektivität	ExamPub
B. EPCOS AG	JP	P2014,0775	2016-570336	15-Jun-2015			Duplexer mit verbesserter Reflektivität	Exam
B. EPCOS AG	US	P2014,0775	15/315,365	15-Jun-2015			Duplexer having improved reflectivity	Pending

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Count	Family Case number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	WO	P2014,0775	PCT/EP2015/063339	15-Jun-2015			Duplexer mit verbesserter Reflektivität	Published
B. EPCOS AG	DE	P2014,0837	102014111828.6	19-Aug-2014			Mit akustischen Oberflächenwellen arbeitender Eimtorresonator	ExamPub
B. EPCOS AG	JP	P2014,0837	2016-570325	16-Jul-2015			Mit akustischen Oberflächenwellen arbeitender Eimtorresonator	Exam
B. EPCOS AG	US	P2014,0837	15/315,366	16-Jul-2015			Mit akustischen Oberflächenwellen arbeitender Eimtorresonator	Pending
B. EPCOS AG	WO	P2014,0837	PCT/EP2015/066333	16-Jul-2015			Mit akustischen Oberflächenwellen arbeitender Eimtorresonator	Published
B. EPCOS AG	DE	P2014,0840	102014111901.0	20-Aug-2014			Duplexer	ExamPub
B. EPCOS AG	JP	P2014,0840	2016-570304	6-Jul-2015			Duplexer	Exam
B. EPCOS AG	US	P2014,0840	15/315,368	6-Jul-2015			Duplexer	Pending
B. EPCOS AG	WO	P2014,0840	PCT/EP2015/065368	6-Jul-2015			Duplexer	Published
B. EPCOS AG	DE	P2014,0841	102014111904.5	20-Aug-2014			Abstimmbares HF-Filter mit Parallelresonatoren	ExamPub
B. EPCOS AG	JP	P2014,0841	2016-570327	6-Jul-2015			Abstimmbares HF-Filter mit Parallelresonatoren	Exam
B. EPCOS AG	US	P2014,0841	15/315,374	6-Jul-2015			Abstimmbares HF-Filter mit Parallelresonatoren	Pending
B. EPCOS AG	WO	P2014,0841	PCT/EP2015/065377	6-Jul-2015			Abstimmbares HF-Filter mit Parallelresonatoren	Published
B. EPCOS AG	DE	P2014,0842	102014111909.6	20-Aug-2014		102014111909	Abstimmbares HF-Filter mit Serienresonatoren	Granted
B. EPCOS AG	JP	P2014,0842	2016-570306	20-Jul-2015			Abstimmbares HF-Filter mit Serienresonatoren	Exam
B. EPCOS AG	US	P2014,0842	15/315,354	20-Jul-2015			Abstimmbares HF-Filter mit Serienresonatoren	Pending
B. EPCOS AG	WO	P2014,0842	PCT/EP2015/066552	20-Jul-2015			Abstimmbares HF-Filter mit Serienresonatoren	Published
B. EPCOS AG	DE	P2014,0858	102014111912.6	20-Aug-2014			HF-Filter	ExamPub
B. EPCOS AG	JP	P2014,0858	2016-571019	11-Aug-2015			HF-Filter	Exam
B. EPCOS AG	US	P2014,0858	15/316,145	11-Aug-2015			RF Filter	Pending
B. EPCOS AG	WO	P2014,0858	PCT/EP2015/068485	11-Aug-2015			HF-Filter	Published
B. EPCOS AG	DE	P2014,0859	102014111993.2	21-Aug-2014			Mikroakustische Bauelement mit verbesserter Temperaturkompensation	ExamPub

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	JP	P2014,0859	2016-570834	9-Jul-2015			Mikroakustisches Bauelement mit verbesserter Temperaturkompensation	Exam
B. EPCOS AG	US	P2014,0859	15/314,790	9-Jul-2015			Micro-acoustic component having improved temperature compensation	Pending
B. EPCOS AG	WO	P2014,0859	PCT/EP2015/065728	9-Jul-2015			Mikroakustisches Bauelement mit verbesserter Temperaturkompensation	Published
B. EPCOS AG	DE	P2014,0893	102014112365.4	28-Aug-2014			Verfahren zur Herstellung eines Mehrschichtsubstrats und Mehrschichtsubstrat	ExamPub
B. EPCOS AG	JP	P2014,0893	2016-570822	12-Aug-2015			Verfahren zur Herstellung eines Mehrschichtsubstrats und Mehrschichtsubstrat	Exam
B. EPCOS AG	US	P2014,0893	15/315,359	12-Aug-2015			Verfahren zur Herstellung eines Mehrschichtsubstrats und Mehrschichtsubstrat	Pending
B. EPCOS AG	WO	P2014,0893	PCT/EP2015/068572	12-Aug-2015			Verfahren zur Herstellung eines Mehrschichtsubstrats und Mehrschichtsubstrat	Published
B. EPCOS AG	DE	P2014,0895	102014112372.7	28-Aug-2014		102014112372	Filterchip und Verfahren zur Herstellung eines Filterchips	Granted
B. EPCOS AG	DE	P2014,0895	102014019772.7	28-Aug-2014			Filterchip	Exam
B. EPCOS AG	DE	P2014,0895	102014019770.0	28-Aug-2014			Filterchip	Exam
B. EPCOS AG	DE	P2014,0895	102014019771.9	28-Aug-2014			Filterchip	Exam
B. EPCOS AG	JP	P2014,0895	2016-570324	17-Aug-2015			Filterchip und Verfahren zur Herstellung eines Filterchips	Exam
B. EPCOS AG	US	P2014,0895	15/314,433	17-Aug-2015			Filterchip und Verfahren zur Herstellung eines Filterchips	Pending
B. EPCOS AG	WO	P2014,0895	PCT/EP2015/068845	17-Aug-2015			Filterchip und Verfahren zur Herstellung eines Filterchips	Published
B. EPCOS AG	DE	P2014,0917	102014112676.9	3-Sep-2014			Filter mit verbesserter Linearität	ExamPub
B. EPCOS AG	WO	P2014,0917	PCT/EP2015/068064	5-Aug-2015			Filter mit verbesserter Linearität	Published
B. EPCOS AG	DE	P2014,0924	102014112672.6	3-Sep-2014			Abdeckung für ein Bauelement und Verfahren zur Herstellung einer Abdeckung für ein Bauelement	ExamPub
B. EPCOS AG	WO	P2014,0924	PCT/EP2015/069453	25-Aug-2015			Abdeckung für ein Bauelement und Verfahren zur Herstellung einer Abdeckung für ein Bauelement	Published
B. EPCOS AG	DE	P2014,0926	102014112812.5	5-Sep-2014			Verfahren zur Herstellung einer Abdeckung für ein Bauelement und Bauelement mit mehreren Abdeckungen	ExamPub

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	WO	P2014,0926	PCT/EP2015/068735	14-Aug-2015			Verfahren zur Herstellung einer Abdeckung für ein Bauelement und Bauelement mit mehreren Abdeckungen	Published
B. EPCOS AG	DE	P2014,0955	102014113052.9	10-Sep-2014		102014113052	HF-Filtermodul mit verbesserter Erweiterbarkeit	Granted
B. EPCOS AG	WO	P2014,0955	PCT/EP2015/066775	22-Jul-2015			HF-Filtermodul mit verbesserter Erweiterbarkeit	Published
B. EPCOS AG	DE	P2014,1190	102014117238.8	25-Nov-2014			BAW-Resonator mit verringerter Eigenerwärmung, HF-Filter mit BAW-Resonator, Duplexer mit HF-Filter und Verfahren zur Herstellung	ExamPub
B. EPCOS AG	WO	P2014,1190	PCT/EP2015/076197	10-Nov-2015			BAW-Resonator mit verringerter Eigenerwärmung, HF-Filter mit BAW-Resonator, Duplexer mit HF-Filter und Verfahren zur Herstellung	Published
B. EPCOS AG	DE	P2014,1232	102014117599.9	1-Dec-2014		102014117599	MEMS-Bauelement mit verbesserter Stabilität und Verfahren zur Herstellung	Granted
B. EPCOS AG	WO	P2014,1232	PCT/EP2015/077934	27-Nov-2015			MEMS-Bauelement mit verbesserter Stabilität und Verfahren zur Herstellung	Published
B. EPCOS AG	DE	P2014,1262	102014118000.3	5-Dec-2014			Anordnung mit einem DMS Filter und steiler rechter Flanke	ExamPub
B. EPCOS AG	WO	P2014,1262	PCT/EP2015/073903	15-Oct-2015			Anordnung mit einem DMS Filter und steiler rechter Flanke	Published
B. EPCOS AG	DE	P2014,1278	102014118214.6	9-Dec-2014			Einfach herstellbares elektrisches Bauelement und Verfahren zur Herstellung eines elektrischen Bauelements	ExamPub
B. EPCOS AG	WO	P2014,1278	PCT/EP2015/074148	19-Oct-2015			Einfach herstellbares elektrisches Bauelement und Verfahren zur Herstellung eines elektrischen Bauelements	Published
B. EPCOS AG	DE	P2014,1306	102014118749.0	16-Dec-2014			Verzugsarme keramische Trägerplatte und Verfahren zur Herstellung	ExamPub
B. EPCOS AG	WO	P2014,1306	PCT/EP2015/079813	15-Dec-2015			Verzugsarme keramische Trägerplatte und Verfahren zur Herstellung	Published
B. EPCOS AG	WO	P2014,1309	PCT/EP2014/077974	16-Dec-2014			Electroacoustic transducer with improved suppression of unwanted modes	Published
B. EPCOS AG	DE	P2014,1317	102014118897.7	17-Dec-2014			Wandler für SAW mit unterdrückter Modenkonversion	ExamPub
B. EPCOS AG	WO	P2014,1317	PCT/EP2015/078421	2-Dec-2015			Wandler für SAW mit unterdrückter Modenkonversion	Published

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Case number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	DE	P2015,0211	102015102869.7	27-Feb-2015			MEMS-Bauelement mit hoher Integrationsdichte	ExamPub
B. EPCOS AG	WO	P2015,0211	PCT/EP2015/080544	18-Dec-2015			MEMS-Bauelement mit hoher Integrationsdichte	Published
B. EPCOS AG	DE	P2015,0382	102015106191.0	22-Apr-2015			Elektroakustisches Bauelement mit verbesserter Akustik	ExamPub
B. EPCOS AG	WO	P2015,0382	PCT/EP2016/051810	28-Jan-2016			Elektroakustisches Bauelement mit verbesserter Akustik	Published
B. EPCOS AG	DE	P2015,0433	102015107069.3	6-May-2015		102015107069	HF-Schaltung und HF-Modul	Granted
B. EPCOS AG	WO	P2015,0433	PCT/EP2016/059421	27-Apr-2016			HF-Schaltung und HF-Modul	Published
B. EPCOS AG	WO	P2015,0444	PCT/EP2015/060353	11-May-2015			Filter arrangement with compensation of pad ground	Published
B. EPCOS AG	DE	P2015,0452	102015107231.9	8-May-2015			Kaskadierter Resonator	ExamPub
B. EPCOS AG	WO	P2015,0452	PCT/EP2016/058127	13-Apr-2016			Kaskadierter Resonator	Published
B. EPCOS AG	DE	P2015,0457	102015107305.6	11-May-2015			HF-Schaltung und Frontend-Schaltung mit HF-Schaltung	ExamPub
B. EPCOS AG	WO	P2015,0457	PCT/EP2016/058917	21-Apr-2016			HF-Schaltung und Frontend-Schaltung mit HF-Schaltung	Published
B. EPCOS AG	DE	P2015,0565	102015108511.9	29-May-2015		102015108511	Multipler	Granted
B. EPCOS AG	WO	P2015,0565	PCT/EP2016/061028	17-May-2016			Multipler	Published
B. EPCOS AG	DE	P2015,0709	102015111307.4	13-Jul-2015			Bauelement mit verbesserter Wärmeableitung	Exam
B. EPCOS AG	WO	P2015,0709	PCT/EP2016/063748	15-Jun-2016			Bauelement mit verbesserter Wärmeableitung	Pending
B. EPCOS AG	JP	P2015,0777	2015-108744	28-May-2015			Unknown	Exam
B. EPCOS AG	WO	P2015,0777	PCT/EP2016/060738	12-May-2016			Glass ceramic sintered compact and wiring board	Published
B. EPCOS AG	DE	P2015,0805	102015116223.7	25-Sep-2015			SAW-Filter mit unterdrückter Scher-Mode	Exam
B. EPCOS AG	WO	P2015,0805	PCT/EP2016/072284	20-Sep-2016			SAW-Filter mit unterdrückter Scher-Mode	Pending
B. EPCOS AG	DE	P2015,0930	102015114751.3	3-Sep-2015			SAW Filter	Exam
B. EPCOS AG	WO	P2015,0930	PCT/EP2016/067654	25-Jul-2016			SAW Filter	Pending

Schedule A to Master Confirmatory Patent Assignment

Assigned Patents

EPCOS AG to SnapTrack (solely owned patents)

Owner	Country	Family Classnumber	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	DE	P2015,0965	102015115442.0	14-Sep-2015			Elektronisches Bauelement und elektronische Signalverarbeitungseinheit mit einem solchen Bauelement	Exam
B. EPCOS AG	WO	P2015,0965	PCT/EP2016/068573	3-Aug-2016			Elektronisches Bauelement und elektronische Signalverarbeitungseinheit mit einem solchen Bauelement	Pending
B. EPCOS AG	DE	P2015,1005	102015116224.5	25-Sep-2015			SAW-Filter mit zusätzlichem Pol	Exam
B. EPCOS AG	WO	P2015,1005	PCT/EP2016/068578	3-Aug-2016			SAW-Filter mit zusätzlichem Pol	Pending
B. EPCOS AG	DE	P2015,1092	102015118231.9	26-Oct-2015			Elektroakustischer Wandler mit reduzierten störenden Transversalmoden	Exam
B. EPCOS AG	WO	P2015,1092	PCT/EP2016/072556	22-Sep-2016			Elektroakustischer Wandler mit reduzierten störenden Transversalmoden	Pending
B. EPCOS AG	DE	P2015,1122	102015118437.0	28-Oct-2015			Schichtanordnung für ein Volumeneellenbauelement	Exam
B. EPCOS AG	WO	P2015,1122	PCT/EP2016/073137	28-Sep-2016			Schichtanordnung für ein Volumeneellenbauelement	Pending
B. EPCOS AG	DE	P2015,1155	102015119147.4	6-Nov-2015			Elektroakustischer Wandler mit hoher Güte und verringerten Nichtlinearitäten zweiter Ordnung	Exam
B. EPCOS AG	WO	P2015,1155	PCT/EP2016/071350	9-Sep-2016			Elektroakustischer Wandler mit hoher Güte und verringerten Nichtlinearitäten zweiter Ordnung	Pending
B. EPCOS AG	DE	P2015,1204	102015119995.5	18-Nov-2015			Filter circuit with additional poles outside passband	Exam
B. EPCOS AG	WO	P2015,1204	PCT/EP2016/076551	3-Nov-2016			FILTER CIRCUIT WITH ADDITIONAL POLES OUTSIDE PASSBAND	Pending
B. EPCOS AG	DE	P2015,1219	102015120341.3	24-Nov-2015			Bauelement mit Wärmeableitung	Exam
B. EPCOS AG	WO	P2015,1219	PCT/EP2016/076841	7-Nov-2016			Bauelement mit Wärmeableitung	Pending
B. EPCOS AG	DE	P2015,1241	102015120654.4	27-Nov-2015			Elektroakustischer Wandler mit verringerten Nichtlinearitäten zweiter Ordnung	Exam
B. EPCOS AG	WO	P2015,1241	PCT/EP2016/076542	3-Nov-2016			Elektroakustischer Wandler mit verringerten Nichtlinearitäten zweiter Ordnung	Pending
B. EPCOS AG	DE	P2015,1247	102015120647.1	27-Nov-2015			Elektrisches Bauelement mit dünner Lot-Stopp-Schicht und Verfahren zur Herstellung	Exam
B. EPCOS AG	WO	P2015,1247	PCT/EP2016/070973	6-Sep-2016			Elektrisches Bauelement mit dünner Lot-Stopp-Schicht und Verfahren zur Herstellung	Pending
B. EPCOS AG	DE	P2015,1387	102015122434.8	21-Dec-2015			MEMS Bauelement	Exam

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B. EPCOS AG	WO	P2015,1387	PCT/EP2016/0784 43	22-Nov-2016			MEMS Bauelement	Pending
B. EPCOS AG	DE	P2015,1409	102015122628.6	22-Dec-2015			Wafer Level Package und Verfahren zur Herstellung	Exam
B. EPCOS AG	WO	P2015,1409	PCT/EP2016/0775 88	14-Nov-2016			Wafer Level Package und Verfahren zur Herstellung	Pending
B. EPCOS AG	DE	P2016,0044	102016100925.3	20-Jan-2016			Filterschaltung	Exam
B. EPCOS AG	WO	P2016,0044	PCT/EP2016/0791 58	29-Nov-2016			Filterschaltung	Pending
B. EPCOS AG	DE	P2016,0132	102016102073.7	5-Feb-2016			Frontend-Modul für Carrier-Aggregation-Betrieb	Exam
B. EPCOS AG	WO	P2016,0132	PCT/EP2016/0794 83	1-Dec-2016			Frontend-Modul für Carrier-Aggregation-Betrieb	Pending
B. EPCOS AG	DE	P2016,0167	102016102742.1	17-Feb-2016			HF-Frontend für ein Automobilradarsystem	Exam
B. EPCOS AG	WO	P2016,0167	PCT/EP2016/0794 59	1-Dec-2016			HF-Frontend für ein Automobilradarsystem	Pending
B. EPCOS AG	DE	P2016,0234	102016103749.4	2-Mar-2016			Werkstückrohling und Verfahren zur Markierung des Rohlings	Exam
B. EPCOS AG	DE	P2016,0236	102016103834.2	3-Mar-2016			BAW device	Exam
B. EPCOS AG	DE	P2016,0244	102016103959.4	4-Mar-2016			BAW-Resonator mit reduzierten Störmoden, BAW-Filter und Verfahren zum Herstellen	Exam
B. EPCOS AG	DE	P2016,0308	102016105118.7	18-Mar-2016			SAW-Bauelement mit verringerten Störungen durch transversale und SH-Moden und HF-Filter mit SAW-Bauelement	Exam
B. EPCOS AG	DE	P2016,0379	102016106185.9	5-Apr-2016			Breitbandiges SAW-Filter	Exam
B. EPCOS AG	DE	P2016,0392	102016106611.7	11-Apr-2016			Multistage arrangement having reduced dispersion	Exam
B. EPCOS AG	DE	P2016,0450	102016107309.1	20-Apr-2016			Multiplexer	Exam
B. EPCOS AG	DE	P2016,0469	102016107628.7	25-Apr-2016			Multiplexer-Schaltung für Tx-Carrier-Aggregation	Exam
B. EPCOS AG	JP	P2016,0485	2016-072802	31-Mar-2016			Multilayer interconnection substrate for high frequency	Pending
B. EPCOS AG	DE	P2016,0603	102016110139.7	1-Jun-2016			SAW-Filter mit Störmodenunterdrückung	Exam
B. EPCOS AG	DE	P2016,0665	102016110862.6	14-Jun-2016			Modul und Verfahren zur Herstellung einer Vielzahl von Modulen	Exam
B. EPCOS AG	WO	P2016,0665	PCT/EP2016/0796 07	2-Dec-2016			Modul und Verfahren zur Herstellung einer Vielzahl von Modulen	Pending

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Owner	Count ¹	Family Case Number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
B. EPCOS AG	DE	P2016,0676	102016111061.2	16-Jun-2016			Bulk acoustic wave resonator with reduced losses, RF filter with such resonators and method for manufacturing such resonators	Exam
B. EPCOS AG	DE	P2016,0735	102016111911.3	29-Jun-2016			Bauelement mit Dünnschicht-Abdeckung und Verfahren zur Herstellung	Exam
B. EPCOS AG	DE	P2016,0736	102016111914.8	29-Jun-2016			Bauelement mit Dünnschicht-Abdeckung und Verfahren zur Herstellung	Exam
B. EPCOS AG	DE	P2016,0738	102016111917.2	29-Jun-2016			RF circuit and method of operation	Exam
B. EPCOS AG	CN	P2016,0793	CN2011176295	29-Mar-2011		CN102208906 (B)	Surface acoustic wave device	Granted
B. EPCOS AG	JP	P2016,0793	特開2010-076633	30-Mar-2010		5341006	弾性表面波装置	Granted
B. EPCOS AG	US	P2016,0793	US201113064490 A	29-Mar-2011		US8829762	Surface acoustic wave device	Granted
B. EPCOS AG	DE	P2016,0794	102016112993.3	14-Jul-2016			Noisefilter sowie dieses umfassende Extraktorordnung	Exam
B. EPCOS AG	DE	P2016,0795	102016112984.4	14-Jul-2016			HF-Filter mit verringerter Einfügedämpfung	Exam
B. EPCOS AG	DE	P2016,0840	102016114071.6	29-Jul-2016			Elektroakustisches Filter mit reduzierten Plattenmoden	Exam
B. EPCOS AG	DE	P2016,0859	102016114663.3	8-Aug-2016			Multipler	Exam
B. EPCOS AG	DE	P2016,0864	102016114662.5	8-Aug-2016			Rekonfigurierbares mikroakustisches Filter und Duplexer mit rekonfigurierbarem mikroakustischem Filter	Exam
B. EPCOS AG	DE	P2016,0948	102016116263.9	31-Aug-2016			Filterbauelement und Herstellung eines Filterbauelements	Exam
B. EPCOS AG	DE	P2016,1068	102016118124.2	26-Sep-2016			Elektroakustischer Wandler mit verbesserter ESD Festigkeit	Exam
B. EPCOS AG	DE	P2016,1203	102016121220.2	7-Nov-2016			Schichtenfolge mit alternierender akustischer Impedanz, akustisches Bauelement mit der Schichtenfolge und Verfahren zur Herstellung	Exam
B. EPCOS AG	DE	P2016,1206	102016120566.4	27-Oct-2016			SAW-Vorrichtung mit verbesserter Wärmeleitfähigkeit	Exam
B. EPCOS AG	DE	P2016,1272	102016122000.0	16-Nov-2016			Multipler with improved isolation, module comprising a multi-plexer and a method for designing a multipler topology	Exam
B. EPCOS AG	DE	P2016,1283	102016122249.6	18-Nov-2016			Verfahren zur Regelung von Abscheidemengen eines Materials auf einem Grundkörper und Anlage zum	Exam

Owner	Count ¹	Family Class number	Application Number	Filing Date	Publication number	Grant Number	Application Title	Application Status
							Abscheiden eines Materials auf wenigstens einem Grundkörper	
B. EPCOS AG	DE	P2016,1305	102016122486.3	22-Nov-2016			Vorrichtung und Verfahren zur Verbindung zweier Substrate für ein elektrisches Bauelement	Exam
B. EPCOS AG	DE	P2016,1350	102016123151.7	30-Nov-2016			Widband DMS filter	Exam
B. EPCOS AG	DE	P2016,1369	102016123474.5	5-Dec-2016			RF module and method for testing an RF module	Exam
B. EPCOS AG	DE	P2016,1377	102016123708.6	7-Dec-2016			BAW-Resonator mit verringerten lateralen Verlusten und HF-Filter mit BAW-Resonator	Exam
B. EPCOS AG	DE	P2016,1378	102016123709.4	7-Dec-2016			BAW-Resonator mit verringerten lateralen Verlusten und HF-Filter mit BAW-Resonator	Exam
B. EPCOS AG	DE	P2016,1383	102016123701.9	7-Dec-2016			SAW-Filter mit hoher Bandbreite	Exam
B. EPCOS AG	DE	P2016,1399	102016125014.7	20-Dec-2016			RF front-end circuit	Exam
B. EPCOS AG	DE	P2016,1400	102016124236.5	13-Dec-2016			BAW resonator device	Exam
B. EPCOS AG	DE	P2016,1401	102016125208.5	21-Dec-2016			Duplexer component with high suppression of signals between an input and output port	Exam
B. EPCOS AG	DE	P2016,1414	102016125877.6	29-Dec-2016			BAW resonator and resonator arrangement	Pending
B. EPCOS AG	DE	P2016,1423	102016125795.8	28-Dec-2016			Electro-acoustic filter and duplexer with electro-acoustic filter	Exam