

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
CIRRUS LOGIC INTERNATIONAL (UK) LTD.	03/29/2015
RECEIVING PARTY DATA	
Name:	CIRRUS LOGIC INTERNATIONAL SEMICONDUCTOR LTD.
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Postal Code:	EH3 9EG
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16585167
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	141841.01221-P1299US02
NAME OF SUBMITTER:	MINDY MAYER
SIGNATURE:	/mindy mayer/
DATE SIGNED:	10/15/2019
Total Attachments: 24	
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PATENT ASSIGNMENT

This Patent Assignment (this "*Assignment*"), effective as of 10:00 a.m. CDT, March 29, 2015 (the "*Effective Time*"), is by and between Cirrus Logic International (UK) Ltd. (formerly known as Wolfson Microelectronics Ltd.), a Scottish limited company having its principal place of business at Westfield House, 26 Westfield Road, Edinburgh, EH11 2QB, United Kingdom ("*Assignor*"), and Cirrus Logic International Semiconductor Ltd., a Scottish limited company having its principal place of business at Westfield House, 26 Westfield Road, Edinburgh, EH11 2QB, United Kingdom ("*Assignee*"). Each of the parties is referred to individually as a "*Party*," and collectively as the "*Parties*."

Assignor and Assignee have entered into a Purchase and Sale Agreement, effective as of the Effective Time, pursuant to which Assignor has agreed to assign to Assignee the Patents (as defined below).

In consideration of the promises and covenants set forth in this Assignment and in the Purchase and Sale Agreement, the Parties agree as follows:

1. "*Patents*" means the patents and patent applications listed on Schedule 1 hereto, and any utility models, supplementary protection certificates, statutory invention registrations, patents and applications for same, and extensions, divisions, continuations, continuations-in-part, reexaminations, and reissues thereof.

2. Assignor hereby, absolutely and unconditionally, conveys, sells, assigns, transfers, grants and sets over unto the Assignee, all of the Assignor's right, title and interest and benefit in and to the Patents, together with all rights of action, both at law and in equity with respect thereto, including all rights to sue, settle any claim, and collect all damages for any past, present, or future infringement or misappropriation of the Patents, the same to be held and enjoyed by the Assignee, its successors and assigns forever, as fully and entirely as the same could have been held and enjoyed by the Assignor if this assignment had not been made and the Assignee does hereby accept such sale, assignment, transfer, grant, conveyance and set over.

3. To the extent any provision in this Assignment is inconsistent with the Purchase and Sale Agreement, the provisions of the Purchase and Sale Agreement will control.

[*Signature page follows.*]

IN WITNESS WHEREOF, Assignor and Assignee have caused this Assignment to be signed and executed by the undersigned officers duly authorized and effective as of the date set forth above.

CIRRUS LOGIC INTERNATIONAL (UK) LTD.

By: 

Name: Allan Hughes

Title: Director

CIRRUS LOGIC INTERNATIONAL
SEMICONDUCTOR LTD.

By: 

Name: Pedro Andrade

Title: Director

[Notarization page follows.]

Schedule I

Patents

HL Ref.	CL Ref.	Country	Catch Word	Status	Priority Date	App. No.	App. Date	Pub. No.	Reg. No.	Reg. Date
P108434CAPC	P1119CAPC	CA	1 Br ETA-V	Pending	3-Aug-07	2711022	4-Aug-08			
P120335CAPC	P1291CAPC	CA	FLM PWM	Pending	14-Dec-11	PCT/GB2012/053151	14-Dec-12			
P113549CN00	P1006CN00	CN	Temp Sensing	Granted	1-Oct-02	03127200.2	30-Sep-03	1497248	ZL 03127200.2	7/1/2009
P113582CNPC	P1038CN00	CN	ADC Back End	Granted	10-Sep-02	03821345	10-Sep-03	CN1682437	ZL 03821345.1	7/8/2009
P113830CN00	P1040CN00	CN	Audio multiplexer	Granted	26-Nov-02	200310115439	25-Nov-03	1501598	ZL200310115439.0	
P113857CN00	P1049CN00	CN	Triple Well	Granted	26-Nov-03	200410059086.1	22-Jul-04	1622450	ZL 200410059086.1	1/4/2012
P113861CN00	P1129CN00	CN	LNOA	Granted	16-Mar-04	200510051085	3-Mar-05	1671040	ZL200510051085.7	10/6/2010
P113875CN00	P1053CN00	CN	Clock Synchroniser	Granted	6-Apr-04	200510059981	4-Apr-05	1684405	ZL 200510059981.8	5/5/2010
P113498CN00	P1054CN00	CN	Algorithmic ADC	Granted	11-Oct-04	200510112636	11-Oct-05	1761158	ZL 200510112636.6	8/12/2009
P113832CN00	P1057CN00	CN	Flipping DAC	Granted	19-Apr-05	200610067454	27-Mar-06	1855729	ZL 200610067454.6	8/12/2009
P113900CN00	P1076CN00	CN	AH 2.0 Digital Mix P&M	Granted	26-Nov-05	200610140323.5	27-Nov-06	1997047	ZL 200610140323.5	6/6/2012
P112657CN00	P1077CN00	CN	AH 3.0 Partitionable Bus & Bridge	Granted	26-Nov-05	200610140327.4	27-Nov-06	1997057	ZL 200610140327.4	1/18/2012
P109828CNPC	P1099CNPC	CN	SPQ ROM	Granted	26-Jan-06	200780003558.3	17-Jan-07	CN 101375328A	200780003558.3	7/2/2014
P107775CNPC	P1092CNPC	CN	MEMS SR	Granted	20-Mar-06	200780005195.7	20-Mar-07	CN 101385392A	200780005195.7	5/29/2013
P109030CNPC	P1106CNPC	CN	SPQ 1B ADC	Granted	12-Apr-06	200780005198.0	11-Apr-07	CN 101385387A	200780005198.0	8/29/2012
P109029CNPC	P1154CNPC	CN	SPQ ANC EE	Granted	1-Apr-06	200780005206.1	28-Mar-07	CN 101385385A	200780005206.1	3/6/2013
P108181CNPC	P1031CNPC	CN	MEMS DUAL SL	Granted	20-Mar-06	200780017312.1	20-Mar-07	CN 101631739A	200780017312.1	3/13/2013
P110274CNPC	P1068CN00	CN	DMCP	Granted	22-Dec-06	200780051653.0	21-Dec-07	CN 101611531A	200780051653.0	8/14/2013
P110273CNPC	P1036CN00	CN	LSCP	Granted	22-Dec-06	200780051680.8	21-Dec-07	CN 101611532A	200780051680.8	5/7/2014
P109036CNPC	P1160CN00	CN	SPQ ASM	Granted	9-May-07	200880020090.3	8-May-08	CN 101681617A	200880020090.3	6/13/2012
P109742CNPC	P1126CN00	CN	AS-V + AS-S	Granted	3-Aug-07	200880110115.9	4-Aug-08	CN 101828333 A	ZL 200880110115.9	8/20/2014
P109792CNPC	P1177CN00	CN	T1 LRE	Granted	21-Dec-07	200880127246.9	12-Dec-08	CN 101903941 A	200880127246.9	9/19/2012
P110509CNPC	P1169CN00	CN	SROC Hard	Granted	14-Feb-08	200980107158.6	13-Feb-09	CN 101965255 A	200980107158.6	8/28/2013
P109741CNPC	P1165CN00	CN	MEMS US-O TRx / MEMS US-C TRx	Granted	7-May-08	200980121004.2	7-May-09	CN 102056680 A	200980121004.2	2/18/2015

P112901CN00	P1075CN00	CN	AH 1.0 Digital Only Push	Granted	26-Nov-05	200610140326.X	27-Nov-06	1996783	21-200610140326.X	3/20/2013
P109794CNPC	P1183CN00	CN	T1 GCNL	Granted	21-Dec-07	200880122251.X	11-Dec-08	CN 101903942 A	200880122251.X	9/18/2013
P113856CN00	P1074CN00	CN	Dual Loop	Pending	17-Dec-03	209410101325	17-Dec-04	1630196		
P108434CNPC	P1119CN00	CN	1 Bit ETA-V + 1 Bit ETA-D + VFs + SyFs	Pending	3-Aug-07	200880108519.4	4-Aug-08	CN 101809862 A		
P114043CNPC	P1231CNPC	CN	AH 3rd Interface	Pending	24-Jul-09	201080033392.1	20-Jul-10			
P113857CN01	P1049CN01	CN	Triple Well SOS	Pending	26-Nov-03	201110359348.6	22-Jul-04			
P113612CNPC	P1237CNPC	CN	PMIC1 BF Current limit	Pending	22-Jul-09	2010800421104	20-Jul-10	CN 102498653 A		
P113608CNPC	P1233CNPC	CN	PMIC1 BF Emulation	Pending	22-Jul-09	2010800421123	20-Jul-10	CN 102714462 A		
P117002CNPC	P1263CNPC	CN	NBY Churchill's Ashtray	Pending	10-Dec-10	2011809669246	9-Dec-11			
P116040CNPC	P1252CNPC00	CN	DC Cal MKII	Pending	16-Dec-10	20118090671208	16-Dec-11	CN 103380569A		
P115855CNPC	P1249CNPC	CN	CP Callinus/Booth/Horus	Pending	23-Dec-10	2011800683239	23-Dec-11	CN 103380565 A		
P115852CNPC	P1245CNPC	CN	CP Annabis/Ra	Pending	23-Dec-10	2011800683258	23-Dec-11	CN 103460578A		
P109792CNPC01	P1177CN01	CN	T1 LRE - ACOF & SF	Pending	21-Dec-07	2012102777491	12-Dec-08	CN 102881281 A		
P117672CNPC	P1266CNPC	CN	NBY Neutral Emissions MKII	Pending	15-Jul-11	2012800313308	6-Jul-12	CN103650529A		
P1195466CNPC	P1279CNPC	CN	AH Elastic Switching TDM+	Pending	27-May-11	2012800371674	25-May-12	CN103703751A		
P116082CNPC	P1255CNPC	CN	FLL Sync	Pending	21-Nov-11	2012800675523	20-Nov-12	CN 104067520 A		
P108181CNPC01	P1031CNPC01	CN	MEMS DUAL SL E-ETCH	Pending	20-Mar-06	2013100309987	20-Mar-07	CN 103096235 A		
P118757CN00	P1274CN00	CN	NBY Churchill's Error Mic	Pending	21-Feb-12	2013100554934	21-Feb-13	CN 103286101A		
P110274CNPC01	P1068CN01	CN	DM8CP 6 Switch	Pending	22-Dec-06	2013102795441	21-Dec-07	CN103401418A		
P121283CN00	P1360CN00	CN	NBY Leeare Port +	Pending	14-Sep-12	2013104123838	11-Sep-13	CN103686510A		
P121061CN00	P1299CN00	CN	ALON FalTri Counter	Pending	26-Jun-13	2014102943604	26-Jun-14	CN104252860A		
P109742CNPC01	P1126CN01	CN	VSUS + Drifter SV	Pending	3-Aug-07	2014103450518	4-Aug-08	CN104135235A		
P109792CNPC02	P1177CN02	CN	T1 xSRA	Pending	21-Dec-07	2015100990720	12-Dec-08			
P109023DEEP	P1132EP00	EP	SQO SEA	Granted	18-Nov-03	04798520.5	16-Nov-04	1685741	1685741	4/3/2013
P109023EPFC	P1132EP00	EP	SQO SEA	Granted	18-Nov-03	04798520.5	16-Nov-04	1685741	1685741	4/3/2013
P109023HEP	P1132EP00	EP	SQO SEA	Granted	18-Nov-03	04798520.5	16-Nov-04	1685741	1685741	4/3/2013
P109023PREP	P1132EP00	EP	SQO SEA	Granted	18-Nov-03	04798520.5	16-Nov-04	1685741	1685741	4/3/2013
P109023BEP	P1132EP00	EP	SQO SEA	Granted	18-Nov-03	04798520.5	16-Nov-04	1685741	1685741	4/3/2013
P113900DEEP	P1076EP00	EP	AH 2.0 Digital Mix P&M	Granted	26-Nov-05	0625602.2	24-Nov-06	1791336	1791336	2/27/2013

P11390HEP00	P1076EP00	EP	AH 2.0 Digital Mix P&M	Granted	26-Nov-05	06256022.2	24-Nov-06	1791336	1791336	2/27/2013
P11390FREP	P1076EP00	EP	AH 2.0 Digital Mix P&M	Granted	26-Nov-05	06256022.2	24-Nov-06	1791336	1791336	2/27/2013
P11390GHEP	P1076EP00	EP	AH 2.0 Digital Mix P&M	Granted	26-Nov-05	06256022.2	24-Nov-06	1791336	1791336	2/27/2013
P11390WUNLEP	P1076EP00	EP	AH 2.0 Digital Mix P&M	Granted	26-Nov-05	06256022.2	24-Nov-06	1791336	1791336	2/27/2013
P11390IEP00	P1075EP00	EP	AH 1.0 Digital Only Path	Granted	26-Nov-05	06256039.6	24-Nov-06	1806660	1806660	2/1/2012
P11390IEP01	P1075EP01	EP	AH 1.0 Digital Only Path	Granted	26-Nov-05	11165440.6	24-Nov-06	2360597	2360597	1/8/2014
P110274EPPC	P1088EP00	EP	DMCP	Pending	22-Dec-06	07848748.5	21-Dec-07	2095494		
P109036EPPC	P1160EP00	EP	SPQ ASM	Pending	9-May-07	08750541.8	8-May-08	2153435		
P108434EPPC	P1119EP00	EP	1 Br ETA-V + 1 Br ETA-D + V/SFs + S/SFs	Pending	3-Aug-07	08776120.1	4-Aug-08	2181500		
P11266EPPC	P1217EP00	EP	MEMS Thin SiN	Pending	13-Feb-09	10704182.4	12-Feb-10	2396274		
P115852EP00	P1245EP00	EP	CP Analysis/Ra	Pending	23-Dec-10	11195496.2	23-Dec-11	2469694		
P112657DEEP	P1077DEEP	EP-DE	AH 3.0 Partitionable Bus & Bridge	Granted	26-Nov-05	06256028.9	24-Nov-06	1791061	1791061	7/22/2009
P113901DEEP	P1073EP00	EP-DE	AH 1.0 Digital Only Path	Granted	26-Nov-05	06256039.6	24-Nov-06	1806660	1806660	2/1/2012
P109028DEEP	P1099EPPC	EP-DE	SPQ ROM	Granted	26-Jan-06	07700390.3	17-Jan-07	1979892	1979892	10/8/2014
P107775DEEP	P1092DEEP	EP-DE	MEMS SR	Granted	20-Mar-06	07732063.8	20-Mar-07	1997347	1997347	11/5/2014
P110273DEEP	P1036EP00	EP-DE	LSCP	Granted	22-Dec-06	07848747.7	21-Dec-07	2095494	2095494	3/6/2013
P109794DEEP	P1183EP00	EP-DE	TI GCNL	Granted	21-Dec-07	08865788.7	11-Dec-08	2225754	2225754	6/25/2014
P113901DEEP01	P1075EP01	EP-DE	AH 1.0 Digital Only Path	Granted	26-Nov-05	11165440.6	24-Nov-06	2360597	2360597	1/8/2014
P108434DEEP01	P1119EP01	EP-DE	V/SFs	Granted	3-Aug-07	12194839.2	4-Aug-08	2568599	2568599	3/26/2014
P109028DEEP	P1099EPPC	EP-DK	SPQ ROM	Granted	26-Jan-06	07700390.3	17-Jan-07	1979892	1979892	10/8/2014
P113901FIEP	P1075EP00	EP-FI	AH 1.0 Digital Only Path	Granted	26-Nov-05	06256039.6	24-Nov-06	1806660	1806660	2/1/2012
P112657FREP	P1077FREP	EP-FR	AH 3.0 Partitionable Bus & Bridge	Granted	26-Nov-05	06256028.9	24-Nov-06	1791061	1791061	7/22/2009
P113901FREP	P1075EP00	EP-FR	AH 1.0 Digital Only Path	Granted	26-Nov-05	06256039.6	24-Nov-06	1806660	1806660	2/1/2012
P109028FREP	P1099EPPC	EP-FR	MEMS SR	Granted	26-Jan-06	07700390.3	17-Jan-07	1979892	1979892	10/8/2014
P107775FREP	P1092FREP	EP-FR	SPQ ROM	Granted	20-Mar-06	07732063.8	20-Mar-07	1997347	1997347	11/5/2014
P110273FREP	P1036EP00	EP-FR	LSCP	Granted	22-Dec-06	07848747.7	21-Dec-07	2095494	2095494	3/6/2013
P109794FREP	P1183EP00	EP-FR	TI GCNL	Granted	21-Dec-07	08865788.7	11-Dec-08	2225754	2225754	6/25/2014
P113901FREP01	P1075EP01	EP-FR	AH 1.1 + Inside Codec	Granted	26-Nov-05	11165440.6	24-Nov-06	2360597	2360597	1/8/2014
P108434FREP01	P1119EP01	EP-FR	V/SFs	Granted	3-Aug-07	12194839.2	4-Aug-08	2568599	2568599	3/26/2014

P113901GBEP	P1075EP00	EP-GB	AH 1.0 Digital Only Path	Granted	26-Nov-05	06256039.6	24-Nov-06	1806660	1806660	2/1/2012
P109028GBEP	P1099EPPC	EP-GB	SPQ ROM	Granted	26-Jan-06	07700390.3	17-Jan-07	1979892	1979892	10/8/2014
P109794GBEP	P1183GB00	EP-GB	TI GCNL	Granted	21-Dec-07	08865788.7	11-Dec-08	2225754	2225754	6/25/2014
P113901GBEP01	P1075EP01	EP-GB	AH 1.1 + Inside Codec	Granted	26-Nov-05	11165440.6	24-Nov-06	2360597	2360597	1/8/2014
P112657NLEP	P1077NLEP	EP-NL	AH 3.0 Partitionable Bus & Bridge	Granted	26-Nov-05	06256028.9	24-Nov-06	1791061	1791061	7/22/2009
P113901NLEP	P1075EP00	EP-NL	AH 1.0 Digital Only Path	Granted	26-Nov-05	06256039.6	24-Nov-06	1806660	1806660	2/1/2012
P109028NLEP	P1099EPPC	EP-NL	SPQ ROM	Granted	26-Jan-06	07700390.3	17-Jan-07	1979892	1979892	10/8/2014
P109028EPPC	P1099EPPC	EP-PC	SPQ ROM	Granted	26-Jan-06	07700390.3	17-Jan-07	1979892	1979892	10/8/2014
P10775EPPC	P1092EPPC	EP-PC	MEMS SR	Granted	20-Mar-06	07732063.8	20-Mar-07	1997347	1997347	11/5/2014
P108181EPPC	P1031EPPC	EP-PC	MEMS DUAL SL	Granted	20-Mar-06	07752064.6	20-Mar-07	1996507	1996507	3/4/2015
P110273EPPC	P1036EPPC	EP-PC	LSCP	Granted	22-Dec-06	07848747.7	21-Dec-07	2095494	2095494	3/6/2013
P109794EPPC	P1183EP00	EP-PC	TI GCNL	Granted	21-Dec-07	08865788.7	11-Dec-08	2225754	2225754	6/25/2014
P108434EPPC01	P1119EP01	EP-PC	V/SvFs	Granted	3-Aug-07	12194839.2	4-Aug-08	2568599	2568599	3/26/2014
P10777EPPC	P1033EPPC	EP-PC	MEMS Process	Pending	24-Feb-06	07703267.8	23-Feb-07	1993946		
P109029EPPC	P1154EPPC	EP-PC	SPQ ANC EE	Pending	1-Apr-06	07732160.2	28-Mar-07	2002687		
P109030EPPC	P1106EPPC	EP-PC	SPQ IB ADC	Pending	12-Apr-06	07732387.1	11-Apr-07	2005786		
P113608EPPC	P1233EPPC	EP-PC	PMIC1 BF Emulation	Pending	22-Jul-09	10737618.8	20-Jul-10	2457317		
P109030EPPC01	P1106EPPC01	EP-PC	SPQ IB ADC Div 01	Pending	12-Apr-06	12158950.1	11-Apr-07	2469888		
P122056EPPC	P1305EPPC	EP-PC	MEMS-P Vent	Pending	24-Sep-12	13779329.5	19-Sep-13			
P113901SEEP	P1075EP00	EP-SE	AH 1.0 Digital Only Path	Granted	26-Nov-05	06256039.6	24-Nov-06	1806660	1806660	2/1/2012
P113864GB00	P1039GB00	GB	Bass Boost	Granted	30-Jul-02	0217639.4	30-Jul-02	2391439	2391439	6/21/2006
P113382GB00	P1038GB00	GB	ADC Back End	Granted	10-Sep-02	0220990.6	10-Sep-02	2393055	2393055	8/30/2006
P113498GB00	P1006GB00	GB	Temp Sensing	Granted	1-Oct-02	0222727.0	1-Oct-02	2393867	2393867	9/20/2006
P113820GB00	P1040GB00	GB	Audio multiplexer	Granted	26-Nov-02	0227553.5	26-Nov-02	2395849	2395849	11/9/2005
P113853GB00	P1072GB00	GB	PLL CS	Granted	14-Apr-03	0308611.3	14-Apr-03	2400760	2400760	12/21/2005
P113755GB00	P1048GB00	GB	Class D BF	Granted	15-Sep-03	0521589.4	15-Sep-03	2406008	2406008	4/2/2008
P113857GB00	P1049GB00	GB	Triple Wall	Granted	26-Nov-03	0327530.3	26-Nov-03	2408644	2408644	4/25/2007
P113746GB00	P1052GB00	GB	WLCR (PWM noise shaping 8608)	Granted	5-Dec-03	0528298.5	5-Dec-03	2408858	2408858	11/29/2006
P113858GB00	P1050GB00	GB	DAC RCS (Reference Chopper Scheme)	Granted	5-Dec-03	0528301.7	5-Dec-03	2408859	2408859	6/6/2007

P113854GB00	P1073GB00	GB	APL	Granted	9-Dec-03	0328505.3	9-Dec-03	2409389	2409389	2409389	10/5/2005
P113856GB00	P1074GB00	GB	Dual Loop	Granted	17-Dec-03	0329233.1	17-Dec-03	2409383	2409383	2409383	6/21/2006
P113857GB00	P1053GB00	GB	Clock Synchronizer	Granted	6-Apr-04	0407837.4	6-Apr-04	2413043	2413043	2413043	11/15/2006
P113498GB00	P1094GB00	GB	Algorithmic ADC	Granted	11-Oct-04	0422560.3	11-Oct-04	2419047	2419047	2419047	8/12/2009
P112774GB00	P1055GB00	GB	Merged Equalizer (Merged 3D and Graphic Equalizer)	Granted	18-Oct-04	0423097.5	18-Oct-04	2419265	2419265	2419265	3/11/2009
P112621GB00	P1056GB00	GB	PWM Tri-Level	Granted	17-Jan-05	0506902.2	17-Jan-05	2425668	2425668	2425668	2/25/2009
P113863GB00	P1104GB00	GB	LNOA+ESD	Granted	16-Mar-04	0501029.3	18-Jan-05	2412260	2412260	2412260	9/26/2007
P113832GB00	P1057GB00	GB	Flipping DAC	Granted	19-Apr-05	0507862.1	19-Apr-05	2425416	2425416	2425416	10/14/2009
P112953GB00	P1155GB00	GB	Dual Power Bus #2	Granted	26-Jul-04	0514332.6	13-Jul-05	2416606	2416606	2416606	4/22/2009
P110269GB00	P1088GB00	GB	Class D Feedback Driver	Granted	17-Aug-05	0516823.2	17-Aug-05	2429351	2429351	2429351	7/8/2009
P113901GB00	P1075GB00	GB	AH 1.0 Digital Only Path	Granted	26-Nov-05	0524099.9	26-Nov-05	2432765	2432765	2432765	4/30/2008
P113900GB00	P1076GB00	GB	AH 2.0 Digital Mix P&M	Granted	26-Nov-05	0524100.5	26-Nov-05	2432758	2432758	2432758	9/10/2008
P112657GB00	P1077GB00	GB	AH 3.0 Partitionable Bus & Bridge	Granted	26-Nov-05	0524101.3	26-Nov-05	2432759	2432759	2432759	7/3/2008
P109028GB00	P1099GB00	GB	SPQ ROM	Granted	26-Jan-06	0601536.6	26-Jan-06	2434708	2434708	2434708	1/29/2008
P110285GB00	P1069GB00	GB	DLL	Granted	1-Feb-06	0601973.1	1-Feb-06	2434930	2434930	2434930	8/16/2009
P10777GB00	P1033GB00	GB	MEMS Process	Granted	24-Feb-06	0603748.5	24-Feb-06	2435544	2435544	2435544	11/19/2008
P109029GB00	P1154GB00	GB	SPQ ANC EE	Granted	1-Apr-06	0606630.2	1-Apr-06	2436657	2436657	2436657	10/26/2011
P109030GB00	P1106GB00	GB	SPQ 1B ADC	Granted	12-Apr-06	0607338.1	12-Apr-06	2437772	2437772	2437772	9/7/2008
P110282GB00	P1061GB00	GB	Slope Compensation	Granted	26-Apr-06	0608192.1	26-Apr-06	2437556	2437556	2437556	3/23/2011
P113549GB00	P1066GB00	GB	Temp Sensing	Granted	1-Oct-02	0612790.6	1-Oct-02	2425419	2425419	2425419	5/2/2007
P110270GB00	P1026GB00	GB	Class D Start Up	Granted	14-Jul-06	0614036.3	14-Jul-06	2440188	2440188	2440188	6/8/2011
P110277GB00	P1012GB00	GB	4 Switch	Granted	31-Aug-06	0617139.1	31-Aug-06	2441358	2441358	2441358	7/6/2011
P106406GB00	P1062GB00	GB	S-Shape PD	Granted	31-Aug-06	0617196.1	31-Aug-06	2441360	2441360	2441360	9/21/2011
P106204GB00	P1028GB00	GB	S-Shape PU	Granted	31-Aug-06	0617199.5	31-Aug-06	2441361	2441361	2441361	9/21/2011
P106407GB00	P1063GB00	GB	PWM S-Shape PD	Granted	31-Aug-06	0617200.1	31-Aug-06	2441362	2441362	2441362	9/21/2011
P106233GB00	P1030GB00	GB	PWM S-Shape PU	Granted	31-Aug-06	0617201.9	31-Aug-06	2441363	2441363	2441363	9/21/2011
P113858GB00	P1050GB00	GB	DAC RCS (Reference Chopper Scheme) Div 01	Granted	5-Dec-03	0624160.8	5-Dec-03	2430819	2430819	2430819	8/1/2007
P110286GB00	P1025GB00	GB	BLC	Granted	5-Dec-06	0624293.7	5-Dec-06	2446844	2446844	2446844	5/25/2011
P110276GB00	P1067GB00	GB	BaBa Clipping	Granted	21-Dec-06	0625516.0	21-Dec-06	2445007	2445007	2445007	8/10/2011

P107012GB00	P1066GB00	GB	LED Protection	Granted	14-Jul-06	0625373.1	21-Dec-06	2440186	2440186	5/18/2011
P107011GB00	P1093GB00	GB	LED Driver	Granted	14-Jul-06	0625374.9	21-Dec-06	2436404	2436404	2/25/2009
P110275GB00	P1070GB00	GB	HEFone Amp	Granted	22-Dec-06	0625399.2	22-Dec-06	2444988	2444988	7/20/2011
P110274GB00	P1068GB00	GB	DMCP	Granted	22-Dec-06	0625395.3	22-Dec-06	2444984	2444984	7/13/2011
P110272GB00	P1069GB00	GB	Class G+	Granted	22-Dec-06	0625395.0	22-Dec-06	2446843	2446843	9/7/2011
P110271GB00	P1071GB00	GB	2FB CAP	Granted	22-Dec-06	0625395.8	22-Dec-06	2444985	2444985	9/14/2011
P110273GB00	P1036GB00	GB	LSCP	Granted	22-Dec-06	0625397.6	22-Dec-06	2447426	2447426	7/13/2011
P106983GB00	P1106GB00	GB	SFQ ANC Char	Granted	25-Jan-07	0701483.0	25-Jan-07	2445984	2445984	12/7/2011
P109031GB00	P1015GB00	GB	Vector Quantiser	Granted	31-Jan-07	0701858.3	31-Jan-07	2436180	2436180	7/9/2008
P109032GB00	P1108GB00	GB	SFQ AGC	Granted	7-Feb-07	0702295.7	7-Feb-07	2441835	2441835	8/20/2008
P109033GB00	P1109GB00	GB	SFQ Neural Emissions	Granted	16-Feb-07	0702998.6	16-Feb-07	2445388	2445388	1/7/2009
P10775GB01	P1092GB00	GB	MEMS SR	Granted	20-Mar-06	0705308.5	20-Mar-07	2444123	2444123	12/14/2011
P108181GB00	P1031GB00	GB	MEMS DUAL SL	Granted	20-Mar-06	0705372.1	20-Mar-07	2436460	2436460	8/5/2009
P113921GB00	P1021GB00	GB	SFQ DC-DC	Granted	30-Mar-07	0706267.2	30-Mar-07	2447875	2447875	7/13/2011
P108140GB00	P1099GB00	GB	DSD Silence	Granted	30-Mar-07	0706330.8	30-Mar-07	2447985	2447985	12/28/2011
P107326GB00	P1020GB00	GB	Sync Write	Granted	25-Apr-07	0708049.2	25-Apr-07	2450862	2450862	7/20/2011
P109036GB00	P1160GB00	GB	SFQ ASM	Granted	9-May-07	0708860.2	9-May-07	2449083	2449083	4/4/2012
P113755GB01	P1048GB01	GB	Class D BF Div 01	Granted	15-Sep-03	0709301.6	15-Sep-03	2435559	2435559	4/2/2008
P108267GB00	P1047GB00	GB	BuBo sensing	Granted	7-Jun-07	0711008.3	7-Jun-07	2449914	2449914	1/18/2012
P108672GB00	P1045GB00	GB	CJ Marco	Granted	25-Jul-07	0714513.9	25-Jul-07	2451265	2451265	1/4/2012
P113920GB00	P1090GB00	GB	1L 2V	Granted	31-Jul-07	0714878.6	31-Jul-07	2451470	2451470	11/23/2011
P108305GB00	P1018GB00	GB	Chaotic SDM	Granted	31-Jul-07	0714889.3	31-Jul-07	2451474	2451474	3/28/2012
P108306GB00	P1002GB00	GB	WLR FB	Granted	31-Jul-07	0714890.1	31-Jul-07	2451475	2451475	1/11/2012
P108319GB00	P1019GB00	GB	Fac Div	Granted	31-Jul-07	0714891.9	31-Jul-07	2451476	2451476	3/11/2012
P108927GB00	P1095GB00	GB	MEMS PB Revers	Granted	17-Aug-07	0716187.0	17-Aug-07	2451908	2451908	12/2/2009
P108929GB00	P1096GB00	GB	MEMS x2 ICP	Granted	17-Aug-07	0716188.8	17-Aug-07	2451909	2451909	7/11/2012
P113754GB02	P1048GB02	GB	Class D BF Div 02	Granted	15-Sep-03	0716762.0	15-Sep-03	2438774	2438774	4/16/2008
P108434GB00	P1119GB00	GB	1 Br ETA-V	Granted	3-Aug-07	0716917.0	30-Aug-07	2451524	2451524	11/21/2012
P108435GB00	P1123GB00	GB	VQFS	Granted	3-Aug-07	0716919.6	30-Aug-07	2451525	2451525	9/26/2012
P108438GB00	P1120GB00	GB	AS-S	Granted	3-Aug-07	0716920.4	30-Aug-07	2451526	2451526	4/25/2012

P108436GB00	P1122GB00	GB	SVFS	Granted	3-Aug-07	0716922.0	30-Aug-07	2451527	2451527	9/26/2012
P108437GB00	P1121GB00	GB	AS-N	Granted	3-Aug-07	0716923.8	30-Aug-07	2451528	2451528	10/17/2012
P109131GB00	P1118GB00	GB	1 Bit ETA-D	Granted	3-Aug-07	0716926.1	30-Aug-07	2451529	2451529	11/7/2012
P110283GB00	P1007GB00	GB	Linear+ SDAC	Granted	6-Sep-07	0717320.6	6-Sep-07	2452521	2452521	6/16/2010
P108291GB00	P1029GB00	GB	MEMS BPS	Granted	19-Sep-07	0718305.6	19-Sep-07	2453104	2453104	4/25/2012
P108926GB00	P1094GB00	GB	MEMS uBPS	Granted	19-Sep-07	0718307.2	19-Sep-07	2453105	2453105	1/12/2011
P109143GB00	P1083GB00	GB	MEMS Fused	Granted	19-Sep-07	0718308.0	19-Sep-07	2452941	2452941	4/1/2012
P109234GB00	P1103GB00	GB	VSUS	Granted	3-Aug-07	0721431.5	31-Oct-07	2451530	2451530	3/21/2012
P109150GB00	P1096GB00	GB	SPQ Gyration	Granted	13-Nov-07	0722340.9	13-Nov-07	2456501	2456501	12/22/2009
P110297GB00	P1130GB00	GB	CPIL	Granted	11-Dec-07	0724166.4	11-Dec-07	2455524	2455524	4/7/2010
P109428GB00	P1105GB00	GB	ALC AntiC	Granted	19-Dec-07	0724741.4	19-Dec-07	2455742	2455742	11/2/2011
P109795GB00	P1139GB00	GB	T1 OSIRF	Granted	21-Dec-07	0725116.8	21-Dec-07	2455806	2455806	4/14/2010
P109838GB00	P1037GB00	GB	HZ Detect	Granted	28-Dec-07	0725343.8	28-Dec-07	2456005	2456005	3/6/2013
P10777GB01	P1033GB01	GB	MEMS Process Div 01	Granted	24-Feb-06	0801843.4	24-Feb-06	2443756	2443756	3/17/2010
P112657GB01	P1077GB01	GB	AH 3.1 Bus & Bridge	Granted	26-Nov-05	0803498.5	26-Nov-05	2445485	2445485	10/22/2008
P113901GB01	P1075GB01	GB	AH 1.1 + Inside Codec	Granted	26-Nov-05	0803499.3	26-Nov-05	2444190	2444190	7/23/2008
P113901GB02	P1075GB02	GB	AH 1.2 Signals on AC Bus	Granted	26-Nov-05	0803500.8	26-Nov-05	2444191	2444191	7/16/2008
P113900GB01	P1076GB01	GB	AH 2.1 Music with Divert to VM	Granted	26-Nov-05	0803501.6	26-Nov-05	2443989	2443989	11/5/2008
P113900GB02	P1076GB02	GB	AH 2.2 Record Call	Granted	26-Nov-05	0803503.2	26-Nov-05	2443990	2443990	1/28/2009
P107011GB01	P1093GB01	GB	LED Driver Div 01	Granted	14-Jul-06	0804150.1	21-Dec-06	2452791	2452791	9/16/2009
P109030GB01	P1106GB01	GB	SPQ JB ADC Div 01	Granted	12-Apr-06	0804508.0	12-Apr-06	2446966	2446966	7/7/2010
P110550GB00	P1169GB00	GB	SROCK Hard	Granted	14-Feb-08	0805316.7	30-Mar-08	2457513	2457513	10/20/2010
P109412GB00	P1102GB00	GB	BOF DAC	Granted	31-Mar-08	0805828.1	31-Mar-08	2458902	2458902	12/28/2011
P109742GB00	P1126GB00	GB	Dither SVF	Granted	3-Aug-07	0806471.9	9-Apr-08	2451536	2451536	7/15/2009
P110443GB00	P1164GB00	GB	WISCE IAR	Granted	23-Apr-08	0807428.8	23-Apr-08	2462997	2462997	9/8/2010
P109456GB00	P1181GB00	GB	MEMS E-DFL	Granted	7-May-08	0808292.7	7-May-08	2459862	2459862	6/30/2010
P109741GB00	P1165GB00	GB	MEMS US-O TXRx	Granted	7-May-08	0808294.3	7-May-08	2459863	2459863	1/19/2011
P109266GB00	P1101GB00	GB	DC CAL	Granted	7-May-08	0808297.6	7-May-08	2459865	2459865	3/16/2011
P110887GB00	P1172GB00	GB	MEMS US-C TXRx	Granted	7-May-08	0808298.4	7-May-08	2459866	2459866	8/31/2011

P10930GB00	P1166GB00	GB	MEMS H2O	Granted	14-May-08	0808746.2	2460860	2460860	10/27/2010
P10903GB01	P1109GB01	GB	SPQ Neutral Emissions Div 01	Granted	16-Feb-07	0809515.0	2446982	2446982	4/29/2009
P109643GB01	P1176GB00	GB	T1 SF	Granted	21-Dec-07	0810994.4	2455821	2455821	3/17/2010
P109792GB01	P1177GB00	GB	T1 LRE	Granted	21-Dec-07	0810995.1	2455822	2455822	6/9/2010
P109793GB01	P1178GB00	GB	T1 ACOF	Granted	21-Dec-07	0810996.9	2455823	2455823	1/16/2013
P109797GB01	P1181GB00	GB	T1 FCDP	Granted	21-Dec-07	0810998.5	2455825	2455825	6/9/2010
P109796GB01	P1180GB00	GB	T1 CGDP	Granted	21-Dec-07	0810999.3	2455826	2455826	6/9/2010
P109798GB01	P1182GB00	GB	T1 SNR DG	Granted	21-Dec-07	0811000.9	2455827	2455827	6/13/2012
P109799GB01	P1179GB00	GB	T1 SBA	Granted	21-Dec-07	0811001.7	2455828	2455828	6/9/2010
P109975GB00	P1131GB00	GB	T1 RkTx	Granted	27-Jun-08	0811863.0	2461315	2461315	9/14/2011
P112621GB01	P1056GB01	GB	PWM Tri-Level Div 01	Granted	17-Jan-05	0816236.4	2449591	2449591	3/18/2009
P110971GB00	P1186GB00	GB	Sample Rate Converter	Granted	13-Oct-08	0818759.3	2456360	2456360	12/2/2009
P108181GB02	P1031GB02	GB	MEMS DUAL SL	Granted	20-Mar-06	0821791.1	2452876	2452876	10/13/2010
P108181GB03	P1031GB03	GB	MEMS DUAL SL	Granted	20-Mar-06	0821792.9	2452877	2452877	9/30/2009
P108181GB01	P1031GB01	GB	MEMS Dual SL Div 01	Granted	20-Mar-06	0821793.7	2452650	2452650	1/27/2010
P111948GB00	P1211GB00	GB	Print DLL	Granted	29-Dec-08	0823614.3	2466521	2466521	8/7/2013
P111707GB00	P1200GB00	GB	MEMS E-Poly PIN Diode	Granted	30-Dec-08	0823631.5	2466643	2466643	5/4/2011
P111715GB00	P1202GB00	GB	MEMS E-CP RBP	Granted	30-Dec-08	0823632.3	2466774	2466774	8/31/2011
P111714GB00	P1201GB00	GB	MEMS E-CP Leaky D	Granted	30-Dec-08	0823633.1	2466775	2466775	6/22/2011
P111468GB00	P1195GB00	GB	MEMS E-Test	Granted	30-Dec-08	0823664.8	2466785	2466785	6/8/2011
P111713GB00	P1198GB00	GB	MEMS E-CP Trim	Granted	30-Dec-08	0823674.7	2466648	2466648	9/28/2011
P112345GB00	P1218GB00	GB	MEMS E-BF	Granted	30-Dec-08	0823675.4	2466777	2466777	5/4/2011
P107777GB02	P1033GB02	GB	MEMS Process Div 02	Granted	24-Feb-06	0901065.3	2454603	2454603	5/5/2010
P107777GB03	P1033GB03	GB	MEMS Process Div 03	Granted	24-Feb-06	0901066.1	2455214	2455214	8/11/2010
P109033GB02	P1108GB02	GB	SPQ Neutral Emissions Div 02	Granted	16-Feb-07	0901412.7	2454605	2454605	5/26/2010
P112266GB00	P1217GB00	GB	MEMS Thin SIN	Granted	13-Feb-09	0902480.3	2467777	2467777	1/12/2011
P110971GB01	P1186GB01	GB	SRC Div 01	Granted	13-Oct-08	0909687.6	2464169	2464169	12/15/2010
P112664GB02	P1240GB00	GB	T1 S Clarity	Granted	20-Feb-09	0909690.0	2467984	2467984	5/15/2013
P112948GB00	P1225GB00	GB	PMIC1 Reg Con ABC	Granted	22-Jul-09	0912736.4	2472050	2472050	6/19/2013

P112949GB00	P1226GB00	GB	PMIC1 NVM ABC	Granted	22-Jul-09	0912757.2	2472051	2472051	10/10/2012
P114043GB00	P1231GB00	GB	AH 3rd Interface	Granted	24-Jul-09	0912936.0	2469345	2469345	5/4/2011
P109020BPC	P1108GBPC	GB	SPQ AGC	Granted	7-Feb-07	0915451.9	2460972	2460972	3/14/2012
P113680GB00	P1233GB00	GB	PMIC1 BF Emulation	Granted	22-Jul-09	0918784.0	2472111	2472111	1/11/2012
P113689GB00	P1244GB00	GB	PMIC1 BF Dicode mode	Granted	22-Jul-09	0918788.1	2472112	2472112	12/7/2011
P113610GB00	P1235GB00	GB	PMIC1 BF Level shift	Granted	22-Jul-09	0918790.7	2472113	2472113	10/26/2011
P113611GB00	P1246GB00	GB	PMIC1 BF Preset & SC	Granted	22-Jul-09	0918791.5	2472114	2472114	1/11/2012
P113612GB00	P1237GB00	GB	PMIC1 BF Current limit	Granted	22-Jul-09	0918793.1	2472115	2472115	10/19/2011
P109643GB02	P1176GB01	GB	T1 SF	Granted	21-Dec-07	0919236.0	2465064	2465064	8/18/2010
P111030GB01	P1238GB00	GB	HDVA J Unsolicited Response	Granted	14-Nov-08	0919867.2	2465465	2465465	1/18/2012
P109030GB02	P1106GB02	GB	SPQ 1B ADC Div 02	Granted	12-Apr-06	0920789.5	2465681	2465681	12/15/2010
P108238GB01	P1037GB01	GB	HZ Detect	Granted	28-Dec-07	1000039.6	2465695	2465695	10/27/2010
P112266GB01	P1217GB01	GB	MEMS Thin SIN (Div 01)	Granted	13-Feb-09	1002520.3	2467848	2467848	1/12/2011
P110297GB01	P1130GB01	GB	CPH Div 01	Granted	11-Dec-07	1002847.0	2467450	2467450	7/20/2011
P109741GB01	P1165GB01	GB	MEMS US-O TxRx	Granted	7-May-08	1012777.2	2469410	2469410	1/9/2011
P109741GB02	P1165GB02	GB	MEMS US-O TxRx	Granted	7-May-08	1012728.0	2469411	2469411	1/9/2011
P109741GB03	P1165GB03	GB	MEMS US-O TxRx	Granted	7-May-08	1012729.8	2469412	2469412	1/9/2011
P108930GB01	P1166GB01	GB	MEMS H2O HS	Granted	14-May-08	1013806.3	2470506	2470506	3/30/2011
P110274GB01	P1068GB01	GB	DMCP Div 01	Granted	22-Dec-06	1014826.0	2472701	2472701	7/20/2011
P115363GB00	P1239GB00	GB	Backwise HCD	Granted	10-Sep-10	1015039.9	2478170	2478170	9/15/2012
P109039KB03	P1105GB03	GB	SPQ 1B ADC Div 03	Granted	12-Apr-06	1015100.9	2470679	2470679	3/30/2011
P109039KB04	P1105GB04	GB	SPQ 1B ADC Div 04	Granted	12-Apr-06	1015103.3	2470680	2470680	3/2/2011
P109039GB05	P1106GB05	GB	SPQ 1B ADC Div 05	Granted	12-Apr-06	1015105.8	2470681	2470681	4/20/2011
P109039GB06	P1106GB06	GB	SPQ 1B ADC Div 06	Granted	12-Apr-06	1015106.6	2470682	2470682	3/30/2011
P115759GB00	P1243GB00	GB	NBY PROXDE	Granted	21-Oct-10	1017806.9	2484722	2484722	11/12/2014
P115872GB00	P1246GB00	GB	NBY The Ashtay	Granted	10-Dec-10	1030962.5	2486268	2486268	1/14/2015
P116040GB00	P1253GB00	GB	DC Cal M&I	Granted	16-Dec-10	1021393.2	2485620	2485620	4/17/2013
P115853GB00	P1244GB00	GB	CP Aunab/Ra	Granted	23-Dec-10	1021801.4	2486698	2486698	1/15/2014
P115855GB00	P1249GB00	GB	CP Callidus/Thoth/Horus	Granted	23-Dec-10	1021810.5	2486701	2486701	1/9/2013

P11030GB02	P1238GB01	GB	HDA J Improved Lock Flag	Granted	14-Nov-08	1102110.2	13-Nov-09	2475632	2475632	2/22/2012
P110275GB01	P1070GB01	GB	HPone Amp	Granted	22-Dec-06	1102622.6	22-Dec-06	2475633	2475633	10/5/2011
P110275GB01	P1069GB01	GB	Class G+ Div 01	Granted	22-Dec-06	1103080.6	22-Dec-06	2475636	2475636	9/7/2011
P110277GB01	P1012GB01	GB	4 Switch, 3 States	Granted	31-Aug-06	1105775.9	31-Aug-06	2479445	2479445	11/30/2011
P110271GB01	P1071GB01	GB	2FB CAP Div 01	Granted	22-Dec-06	1108796.2	22-Dec-06	2478457	2478457	12/7/2011
P110271GB02	P1071GB02	GB	2FB CAP Div 02	Granted	22-Dec-06	1108798.8	22-Dec-06	2478458	2478458	12/7/2011
P117672GB00	P1264GB00	GB	NBY Neutral Emissions MKII	Granted	15-Jul-11	1112194.4	15-Jul-11	2492959	2492959	8/14/2013
P109029GB01	P1154GB01	GB	SPQ ANC EE Motion Detect	Granted	1-Apr-06	1112196.9	1-Apr-06	2479672	2479672	11/30/2011
P109029GB04	P1154GB04	GB	SPQ ANC EE Div 04	Granted	1-Apr-06	1112198.5	1-Apr-06	2479673	2479673	11/30/2011
P109029GB03	P1154GB03	GB	SPQ ANC EE Div 03	Granted	1-Apr-06	1112200.9	1-Apr-06	2479674	2479674	11/30/2011
P109029GB02	P1154GB02	GB	SPQ ANC EE Div 02	Granted	1-Apr-06	1112203.3	1-Apr-06	2479675	2479675	11/30/2011
P113611GB01	P1236GB01	GB	PMIC1 BF Slope Comp	Granted	22-Jul-09	1113554.8	27-Oct-09	2482424	2482424	8/1/2012
P110277GB02	P1012GB02	GB	4 Switch Only 4	Granted	31-Aug-06	1116744.2	31-Aug-06	2484010	2484010	5/16/2012
P110277GB03	P1012GB03	GB	4 Switch Max Voltage Stress	Granted	31-Aug-06	1116745.9	31-Aug-06	2484198	2484198	6/13/2012
P113920GB01	P1090GB01	GB	1L 2V - Inductor Switches	Granted	31-Jul-07	1117166.7	31-Jul-07	2484012	2484012	5/23/2012
P113609GB01	P1234GB01	GB	PMIC1 BF Diode mode Div 01	Granted	22-Jul-09	1118383.7	27-Oct-09	2483002	2483002	5/16/2012
P113608GB01	P1233GB01	GB	PMIC1 BF V Mode DCM	Granted	22-Jul-09	1118384.5	27-Oct-09	2483003	2483003	5/23/2012
P108149GB01	P1009GB01	GB	DSD Silence Codes	Granted	30-Mar-07	1118390.2	30-Mar-07	2482444	2482444	8/1/2012
P118295GB00	P1268GB00	GB	Class D DFF	Granted	11-Nov-11	1119503.9	11-Nov-11	2491913	2491913	11/6/2013
P116082GB00	P1255GB00	GB	FLL Sync	Granted	21-Nov-11	1120816.9	21-Nov-11	2496673	2496673	6/11/2014
P111030GB04	P1238GB03	GB	HDA J Configurable Input stage	Granted	14-Nov-08	1200567.4	13-Nov-09	2487301	2487301	2/20/2013
P113608GB02	P1233GB02	GB	PMIC1 BF Pulse skipping	Granted	22-Jul-09	1200909.8	27-Oct-09	2486827	2486827	5/8/2013
P111030GB05	P1238GB04	GB	HDA J On the Fly SR Changes	Granted	14-Nov-08	1201784.4	13-Nov-09	2487310	2487310	2/27/2013
P118686GB00	P1272GB00	GB	NBY-WINODE	Granted	16-Mar-12	1204660.3	16-Mar-12	2500251	2500251	1/29/2014
P116040GB01	P1252GB01	GB	DC Cal MHI Muxed Loops	Granted	16-Dec-10	1207051.2	16-Dec-10	2488455	2488455	8/7/2013
P119546GB00	P1279GB00	GB	AH Elastic Switching TDM+	Granted	27-May-11	1209252.4	25-May-12	2491261	2491261	8/6/2014
P119547GB00	P1281GB00	GB	AH Elastic Switching SDB+	Granted	27-May-11	1209255.7	25-May-12	2491262	2491262	8/6/2014
P117689GB00	P1267GB00	GB	AH Elastic Switching CF+	Granted	27-May-11	1209258.1	25-May-12	2491263	2491263	8/6/2014

P117687GB00	P1265GB00	GB	AH Elastic Switching Frntx+	Granted	27-May-11	1209259.9	2491264	2491264	2491264	25-May-12	2491264	8/20/2014
P120160GB00	P1288GB00	GB	NBY Lecare Port	Granted	14-Sep-12	1216453.9	2505919	2505919	2505919	14-Sep-12	2505919	2/18/2015
P120129GB00	P1285GB00	GB	MEMS-P Carwheel	Granted	24-Sep-12	1217002.3	2506171	2506171	2506171	24-Sep-12	2506171	1/28/2015
P120212GB00	P1290GB00	GB	NBY AGA-HPF	Granted	12-Oct-12	1218346.3	2506908	2506908	2506908	12-Oct-12	2506908	1/21/2015
P120572GB00	P1294GB00	GB	Mic Head	Granted	27-Dec-12	1223443.1	2509316	2509316	2509316	27-Dec-12	2509316	2/25/2015
P121283GB00	P1300GB00	GB	NBY Lecare Port +	Granted	14-Sep-12	1306448.0	2505979	2505979	2505979	9-Apr-13	2505979	2/18/2015
P110396GB00	P1162GB00	GB	Prov SRCCR	Pending	14-Feb-08	0802741.9				14-Feb-08		
P117082GB00	P1262GB00	GB	NBY Churchill's Ashtray	Pending	10-Dec-10	1106335.1	2486288	2486288	2486288	14-Apr-11	2486288	
P118341GB00	P1269GB00	GB	Class D Offset	Pending	18-Nov-11	1119936.9	2496664	2496664	2496664	18-Nov-11	2496664	
P118757GB00	P1274GB00	GB	NBY Churchill's Error Mic	Pending	21-Feb-12	1202974.0	2499607	2499607	2499607	21-Feb-12	2499607	
P119375GB00	P1278GB00	GB	SS VCO	Pending	30-May-12	1209600.4	2502557	2502557	2502557	30-May-12	2502557	
P113302GBPC	P1230GBPC	GB	2 Speed Interface	Pending	17-Dec-09	1214480.4	2489902	2489902	2489902	17-Dec-10	2489902	
P120128GB00	P1284GB00	GB	MEMS-P Strong Membrane	Pending	24-Sep-12	1217010.6	2506173	2506173	2506173	24-Sep-12	2506173	
P120070GB00	P1283GB00	GB	DAC Noise Gain	Pending	19-Oct-12	1218794.4	2507096	2507096	2507096	19-Oct-12	2507096	
P120062GB00	P1282GB00	GB	OCK DAC	Pending	26-Oct-12	1219335.5	2507332	2507332	2507332	26-Oct-12	2507332	
P120211GB00	P1289GB00	GB	Multi-Press	Pending	4-Dec-12	1221821.0	2508612	2508612	2508612	4-Dec-12	2508612	
P120892GB00	P1296GB00	GB	Mic Clamp	Pending	11-Apr-13	1306633.7	2512918	2512918	2512918	11-Apr-13	2512918	
P120901GB00	P1295GB00	GB	MEMS-E RPM DISTO	Pending	26-Apr-13	1307576.7	2513406	2513406	2513406	26-Apr-13	2513406	
P121059GB00	P1297GB00	GB	ALON ADC VAD	Pending	26-Jun-13	1311375.8	2515536	2515536	2515536	26-Jun-13	2515536	
P121060GB00	P1298GB00	GB	ALON FallIn Counter	Pending	26-Jun-13	1311379.0	2515527	2515527	2515527	26-Jun-13	2515527	
P121061GB00	P1299GB00	GB	ALON x2 Speech Path	Pending	26-Jun-13	1311381.6	2515528	2515528	2515528	26-Jun-13	2515528	
P121869GB00	P1301GB00	GB	OS Env Det	Pending	5-Jul-13	1312088.6	2515819	2515819	2515819	5-Jul-13	2515819	
P121870GB00	P1302GB00	GB	MEMS-P Holey Metal Membrane	Pending	5-Jul-13	1312150.4	2515836	2515836	2515836	5-Jul-13	2515836	
P121994GB00	P1304GB00	GB	ALON SIR	Pending	10-Jul-13	1312395.5	2516075	2516075	2516075	10-Jul-13	2516075	
P121995GB00	P1303GB00	GB	MEMS-E LNA Vbs	Pending	2-Aug-13	1313886.2	2516878	2516878	2516878	2-Aug-13	2516878	
P122056GB00	P1305GB00	GB	MEMS-P Vent	Pending	24-Sep-12	1314964.6	2506979	2506979	2506979	21-Aug-13	2506979	
P122268GB00	P1307GB00	GB	Class D Multi-Rate	Pending	23-Oct-13	1318765.5				23-Oct-13		
P122831GB00	P1309GB00	GB	ALON Bufferless/Early Wake	Pending	18-Dec-13	1322348.2				18-Dec-13		
P122447GB00	P1310GB00	GB	ALON Adaptation Control	Pending	18-Dec-13	1322349.0				18-Dec-13		

P122284GB00	P1308GB00	GB	MEMS-E Vbg Bias	Pending	19-Dec-13	1322496.9	19-Dec-13				
P122264GR00	P1306GB00	GB	SP Thermal & Signal	Pending	24-Jan-14	1401210.8	24-Jan-14				
P123768GB00	P1312GB00	GB	MEMS-E LNA Gain Boost	Pending	2-May-14	1407790.3	2-May-14				
P123786GB00	P1313GB00	GB	Le/Re Speaker Protection	Pending	6-Jun-14	1410110.9	6-Jun-14				
P123815GB00	P1314GB00	GB	MEMS-Pa Integrated Mic	Pending	10-Jun-14	1410263.6	10-Jun-14				
P124056GB00	P1315GB00	GB	MEMS-E On-chip RC	Pending	31-Jul-14	1413631.1	31-Jul-14				
P124076GB00	P1316GB00	GB	Class D Opamp/Classed	Pending	29-Aug-14	1415328.2	29-Aug-14				
P117002GR01	P1262GB01	GB	NBY Churchill's Ashtray P&LC	Pending	10-Dec-10	1419470.8	14-Apr-11	2516785			
P124952GB00	P1322GB00	GB	DAI Format	Pending	31-Oct-14	1419482.3	31-Oct-14				
P124075GB00	P1317GB00	GB	ADC DRE	Pending	4-Nov-14	1419651.3	4-Nov-14				
P124971GB00	P1323GB00	GB	DAI Timing Cal	Pending	2-Dec-14	1421338.3	2-Dec-14				
P124510GB00	P1318GB00	GB	MEMS-P double hinge vent	Pending	19-Dec-14	1422774.8	19-Dec-14				
P116940HK00	P1252HK00	HK	DC Cal MKI	Granted	16-Dec-10	1021393.2	16-Dec-10	1171119A	HK1171119		8/2/2013
P109028HK00	P1099HK00	HK	SPQ ROM	Granted	26-Jan-06	09102889.1	25-Mar-09	1124680A	HK1124680		2/6/2015
P110274HK01	P1068HK00	HK	DMCP	Granted	22-Feb-11	11101742.6	22-Feb-11	1147855	HK1147855		12/30/2011
P113608HK00	P1233HK00	HK	PMIC1 BF Emulation	Pending	22-Jul-09	12106424.9	3-Jul-12	1165910A			
P113612HK00	P1237HK00	HK	PMIC1 BF Current limit	Pending	22-Jul-09	12108053.3	16-Aug-12	1167525A			
P113857HK01	P1049HK00	HK	Triple Well SOS	Pending	26-Nov-03	12108613.6	4-Sep-12	1167935A			
P109028JPC	P1099INPC	IN	SPQ ROM	Pending	26-Jan-06	6618/DEL NPT200	17-Jan-07				
P109029JPC	P1154JPC	JP	SPQ ANC EE	Granted	1-Apr-06	2009-502203	28-Mar-07	2009-532926	5254204		4/26/2013
P109030JPC	P1106JPC	JP	SPQ 1B ADC	Granted	12-Apr-06	2009-504816	11-Apr-07	2009-533921	5312319		7/12/2013
P110274JPC01	P1068JPC01	JP	DMCP 1FCAP	Granted	22-Dec-06	2012-124269	21-Dec-07	2012-213330	5599431		8/22/2014
P108434JPC01	P1119JPC01	JP	V/S v Fs	Granted	3-Aug-07	2013-048184	4-Aug-08	2013-141302	5539557		5/9/2014
P110274JPC02	P1068JPC02	JP	DMCP - LSCLP 1FCAP	Pending	22-Dec-06	2014-164123	21-Dec-07				
P110274KRPC	P1068KRPC	KR	DMCP	Granted	22-Dec-06	10-2909-7015285	21-Dec-07	10-2009-94153	10-1076989		10/19/2011
P108434KRPC	P1119KRPC	KR	1 Br ETA-V/D	Granted	3-Aug-07	10-2010-7004561	4-Aug-08	10-2010-0059826	10-1467508		12/10/2014
P110274KEPC01	P1068KEPC01	KR	DMCP LS-1FCAP	Granted	22-Dec-06	10-2011-7013027	21-Dec-07	10-2011-0069181	10-1394508		10/18/2012
P115853KRPC	P1249KRPC	KR	CP Callibus/Theo/Horus	Granted	23-Dec-10	10-2013-7019392	23-Dec-11	10-1450501	10-1450501		10/6/2014
P115853KRPC	P1245KRPC	KR	CP Amibus/Ra	Granted	23-Dec-10	10-2013-7019448	23-Dec-11	10-2013-0105896	10-1473602		12/10/2014

P108434KRPC01	P1119KRPC01	KR	V/S v Fs	Granted	3-Aug-07	10-2013-7031098	4-Aug-08	10-2014-0006354	10-1466935	11/24/2014
P109028KRPC	P1099KRPC	KR	SPQ ROM	Granted	26-Jan-06	70209362008	17-Jan-07	1020080998385	10-1285857	7/8/2013
P112266KRPC	P1217KRPC	KR	MEMS Thin SIN	Pending	13-Feb-09	10-2011-7021241	12-Feb-10			
P114043KRPC	P1231KRPC	KR	AH 3rd Interface	Pending	24-Jul-09	10-2012-7001867	20-Jul-10			
P112950KRPC	P1227KRPC	KR	PMICI SIPI ABCD	Pending	22-Jul-09	10-2012-7004500	21-Jul-10			
P113608KRPC	P1233KRPC	KR	PMICI BF Emulation	Pending	22-Jul-09	10-2012-7004641	20-Jul-10			
P110274KRPC02	P1068KRPC02	KR	DMCP Divided Vin	Pending	22-Dec-06	10-2012-7024281	21-Dec-07			
P116040KRPC	P1252KRPC00	KR	DC Cal MIM	Pending	16-Dec-10	10-2013-7018430	16-Dec-11			
P116082KRPC	P1253KRPC	KR	FLL Sync	Pending	21-Nov-11	10-2014-7016887	20-Nov-12			
P120862PC00	P1282PC00	PC	OCK DAC	Pending	26-Oct-12	PCT/GB2013/052 640	10-Oct-13	WO 2014/064421		
P120070PC00	P1283PC00	PC	DAC Noise Gain	Pending	19-Oct-12	PCT/GB2013/052 641	10-Oct-13	WO2014/060723		
P120572PC00	P1294PC00	PC	Mic Head	Pending	27-Dec-12	PCT/GB2013/053 295	13-Dec-13	WO2014/102530		
P120901PC00	P1295PC00	PC	MEMS-E HPM DISTO	Pending	26-Apr-13	PCT/GB2014/051 262	23-Apr-14	WO2014/174283		
P121870PC00	P1302PC00	PC	MEMS-P Hokey Metal Membrane	Pending	5-Jul-13	PCT/GB2014/051 985	30-Jun-14	WO 2015/001325		
P122568PC00	P1307PC00	PC	Class D Multi-Rate	Pending	23-Oct-13	PCT/GB2014/053 150	22-Oct-14			
P125158PC00	P1323PC00	PC	ALON Adaptation Control	Pending	18-Dec-13	PCT/GB2014/053 738	17-Dec-14			
P122831PC00	P1309PC00	PC	ZFP ALON Bufferless/Early Wake	Pending	18-Dec-13	PCT/GB2014/053 739	17-Dec-14			
P113837TW00	P1022TW00	TW	D-Thump	Granted	10-May-02	092108723	15-Apr-03	244819	1244819	12/1/2005
P113864TW00	P1039TW00	TW	Bass Boost	Granted	30-Jul-02	092129452	25-Jul-03	200404474	200404474	11/11/2005
P113820TW00	P1040TW00	TW	Audio multiplexer	Granted	26-Nov-02	092126541	25-Sep-03	261414	261414	9/1/2006
P113857TW00	P1049TW00	TW	Triple Well	Granted	26-Nov-03	093121798	21-Jul-04	200518443	1333323	11/11/2010
P113826TW00	P1074TW00	TW	Dual Loop	Granted	17-Dec-03	093134450	11-Nov-04	200522524	1334699	12/11/2010
P113855TW00	P1053TW00	TW	Clock Synchroniser	Granted	6-Apr-04	094108775	22-Mar-05	200601767	1337491	2/11/2011
P112657TW00	P1077TW00	TW	AH 3.0 Partitionable Bus & Bridge	Granted	26-Nov-05	095143525	24-Nov-06	200742283	1434523	4/11/2014
P113900TW00	P1076TW00	TW	AH 2.0 Digital Mix P&M	Granted	26-Nov-05	095143527	24-Nov-06	200803426	1454128	9/21/2014
P113901TW00	P1075TW00	TW	AH 1.0 Digital Only Path	Granted	26-Nov-05	095143528	24-Nov-06	200727563	1420506	12/21/2013

P108181TW00	P1031TW00	TW	MEMS DUAL SL	Granted	20-Mar-06	096109618	20-Mar-07	1340485	4/11/2011
P107775TW00	P10921W00	TW	MEMS SR	Granted	20-Mar-06	096109622	20-Mar-07	1404671	8/11/2013
P107011TW00	P1093TW00	TW	LED Driver	Granted	14-Jul-06	096124784	6-Jul-07	1400936	7/1/2013
P107012TW00	P1066TW00	TW	LED Protection	Granted	14-Jul-06	096124767	6-Jul-07	1386104	2/11/2013
P110275TW00	P1036TW00	TW	LSCP	Granted	22-Dec-06	96148179	17-Dec-07	1432935	4/1/2014
P110274TW00	P1068TW00	TW	DMCP	Granted	22-Dec-06	96148181	17-Dec-07	1432936	4/1/2014
P108434TW00	P1119TW00	TW	1 Br ETA-V + 1 Br ETA-D + VvFs + SvFs	Granted	3-Aug-07	097129502	4-Aug-08	1458257	10/21/2014
P109742TW00	P1126TW00	TW	Dither S/V + AS-V + AS-S + VSUS	Granted	3-Aug-07	097129504	4-Aug-08	1465034	12/11/2014
P109143TW00	P1083TW00	TW	MEMS Fused	Granted	19-Sep-07	097135574	17-Sep-08	1466814	1/1/2015
P108291TW00	P1029TW00	TW	MEMS BPS	Granted	19-Sep-07	097135577	17-Sep-08	1457269	10/21/2014
P11266TW00	P1217TW00	TW	MEMS Thin SEN	Granted	13-Feb-09	099104992	12-Feb-10	1457270	10/21/2014
P113981TW01	P1075TW01	TW	AH11 Adding Inside the Codec	Granted	26-Nov-05	102135863	24-Nov-06	1457911	10/21/2014
P109033TW00	P1109TW00	TW	SFQ Neutral Emissions	Pending	16-Feb-07	097104928	12-Feb-08		
P108926TW00	P1094TW00	TW	MEMS uBPS	Pending	19-Sep-07	097135578	17-Sep-08	206927634	
P114043TW00	P1231TW00	TW	AH 3rd Interface	Pending	24-Jul-09	99123810	20-Jul-10		
P113608TW00	P1233TW00	TW	PMCT BF Emulation & pulse skipping	Pending	22-Jul-09	99123927	21-Jul-10	201108580	
P122056TW00	P1305TW00	TW	MEMS-P Vent	Pending	24-Sep-12	102133616	17-Sep-13	301444379	
P121879TW00	P1302TW00	TW	MEMS-P Holy Metal Membrane	Pending	5-Jul-13	103123089	4-Jul-14		
P113919US00	P1005US00	US	TPWM Joint Invention	Granted	13-Feb-97	08799904	13-Feb-97	5874909	2/23/1999
P113868US00	P1014US00	US	Dynamic Element Matching	Granted	26-Feb-96	09622178	25-Oct-00	6583742	6/24/2003
P113837US00	P1022US00	US	D-Thump	Granted	10-May-02	10146114	16-May-02	6600365	7/29/2003
P113852US00	P1016US00	US	DAC Reference Discharge Scheme	Granted	16-May-02	10153913	24-May-02	6573850	6/3/2003
P11382US00	P1038US00	US	ADC Back End	Granted	10-Sep-02	10247357	20-Sep-02	US 2004-0046605 A1	12/14/2004
P113549US00	P1066US00	US	Temp Sensing	Granted	1-Oct-02	10265414	7-Oct-02	US 2004-0062797 A1	10/5/2004
P113820US00	P1040US00	US	Audio multiplexer	Granted	26-Nov-02	10347300	21-Jan-03	US 2004-0100319 A1	12/7/2004
P11383US00	P1072US00	US	PLL CS	Granted	14-Apr-03	10459606	12-Jun-03	US 2004-0201425 A1	2/15/2005

P113858US00	P1050US00	US	DAC RCS (Reference Chopper Schemes)	Granted	5-Dec-03	10/770387	4-Feb-04	US 2005-0122245 A1	6952176	10/4/2005
P113755US00	P1048US00	US	Class D BF	Granted	15-Sep-03	10/770407	4-Feb-04	US 2005-0058209 A1	7257164	8/14/2007
P113756US00	P1052US00	US	WLRC (PWM noise shaping 8668)	Granted	5-Dec-03	10/777763	13-Feb-04	US 2005-0122241 A1	7061415	6/13/2006
P113861US00	P1129US00	US	LNOA	Granted	16-Mar-04	10837779	4-May-04	US 2005-0206454 A1	7113042	9/26/2006
P113857US00	P1049US00	US	Triple Well	Granted	26-Nov-03	10841454	10-May-04	US 2005-0110574 A1	7030699	4/18/2006
P113856US00	P1074US00	US	Dual Loop	Granted	17-Dec-03	10/986994	15-Nov-04	US 2005-02281367 A1	7383774	9/1/2009
P112774US00	P1055US00	US	Merged Equalizer (Merged 3D and Graphic Equalizer)	Granted	18-Oct-04	11/002207	3-Dec-04	US 2006-20060083381 A1	7466831	12/16/2008
P113498US00	P1054US00	US	Algorithmic ADC	Granted	11-Oct-04	11/090037	28-Mar-05	US 2006-0077086 A1	7106240	9/12/2006
P112628US00	P1056US00	US	PWM Tri-Level	Granted	17-Jan-05	11/110838	21-Apr-05	US 2006-0158259 A1	7205917	4/17/2007
P113832US00	P1057US00	US	Flipping DAC	Granted	19-Apr-05	11/140951	1-Jun-05		7102557	9/5/2006
P112953US00	P1155US00	US	Dual Power Bus #2	Granted	26-Jul-04	11/185718	21-Jul-05	US 2006-0022640 A1	7402986	7/23/2008
P110269US00	P1058US00	US	Class D Feedback Driver	Granted	17-Aug-05	11/225845	14-Sep-05	2007-06040608	7348840	3/25/2008
P113861US01	P1129US01	US	LNOA+ESD Div 01	Granted	16-Mar-04	11/267330	4-May-04	US 2006-0109055 A1	7301401	11/27/2007
P110278US00	P1059US00	US	Current Sense Circuit	Granted	27-Oct-05	11/318458	28-Dec-05	2007-0096748	7301347	11/27/2007
P113988US00	P1076US00	US	AH 2.0 Digital Mix P&M	Granted	26-Nov-05	11/318596	28-Dec-05	US 2007-0123192 A1	7885422	2/8/2011
P113901US00	P1075US00	US	AH 1.0 Digital Only Path	Granted	26-Nov-05	11/318600	28-Dec-05	US 2007-0124150 A1	7765019	7/27/2010
P112657US00	P1077US00	US	AH 3.0 Partitionable Bus & Bridge	Granted	26-Nov-05	11/318601	28-Dec-05	US 2007-0124526 A1	7376778	5/20/2008
P110284US00	P1060US00	US	DLL	Granted	1-Feb-06	11/406323	19-Apr-06	2007-0176656	7295053	11/13/2007
P108181US00	P1031US00	US	MEMS DUAL SL	Granted	20-Mar-06	11/723514	20-Mar-07	US-2007-20070284682	7781249	8/24/2010
P113686US00	P1023US00	US	Configurable regulators	Granted	25-Jul-06	11/783397	9-Apr-07	2008-0024108	7573152	8/1/2009
P113817US00	P1078US00	US	Debounce	Granted	11-Apr-06	11/783379	10-Apr-07	2007-0236257	7579894	8/25/2009
P110292US00	P1061US00	US	Slope Compensation	Granted	26-Apr-06	11/785227	16-Apr-07	US-2007-0252567-A1	7605574	10/20/2009
P106983US00	P1015US00	US	Vector Quantiser	Granted	31-Jan-07	11/822565	6-Jul-07	US-2008-0180295-A1	7508331	3/24/2009

P10701US00	P1093US00	US	LED Driver	Granted	14-Jul-06	11/822830	10-Jul-07	US-2008-0048567	7884558	2/8/2011
P107012US00	P1066US00	US	LED Protection	Granted	14-Jul-06	11/822831	10-Jul-07	US-2008-0012508	7884557	2/8/2011
P110270US00	P1026US00	US	Class D Start Up	Granted	14-Jul-06	11/826369	13-Jul-07	US-2008-0024213	8139792	3/20/2012
P106406US00	P1062US00	US	S-Shape PD	Granted	31-Aug-06	11/892641	24-Aug-07	US-2008-0069376	8208658	6/26/2012
P106204US00	P1028US00	US	S-Shape PU	Granted	31-Aug-06	11/892642	24-Aug-07	US-2008-0056513	8304251	6/19/2012
P110277US00	P1012US00	US	4 Switch	Granted	31-Aug-06	11/892885	28-Aug-07	US-2008-0055946	7723965	5/25/2010
P114089US00	P1064US00	US	Bandgap Startup	Granted	6-Oct-06	11/902025	18-Sep-07	US-2008-0224682-A1	7626374	12/1/2009
P106267US00	P1047US00	US	BuBo sensing	Granted	7-Jun-07	11/905822	4-Oct-07	US-2008-0303502	7777457	8/17/2010
P106982US00	P1046US00	US	Skip Shuffler	Granted	18-Dec-06	11/937271	14-Dec-07	US-2008-0143572	7567195	7/28/2009
P110286US00	P1025US00	US	BLC	Granted	5-Dec-06	11/987772	4-Dec-07	US-2008-0129563	7649480	1/19/2010
P110274US00	P1068US00	US	DMCP	Granted	22-Dec-06	12/000545	13-Dec-07	US-2008-0150619	7626445	12/1/2009
P110271US00	P1071US00	US	2PB CAP	Granted	22-Dec-06	12/000546	13-Dec-07	US-2008-0150620	7990742	8/2/2011
P110273US00	P1036US00	US	LSCP	Granted	22-Dec-06	12/000547	13-Dec-07	US-2008-0150621	7622984	11/24/2009
P110275US00	P1070US00	US	HPhone Amp	Granted	22-Dec-06	12/000548	13-Dec-07	US-2008-0159567	8363856	1/29/2013
P110272US00	P1069US00	US	Class G+	Granted	22-Dec-06	12/000549	13-Dec-07	US-2008-00116979	7714660	5/11/2010
P107221US00	P1017US00	US	WISCE Reg Man	Granted	30-Jan-07	12/007007	4-Jan-08	US-2008-0216007	8140465	3/20/2012
P108149US00	P1009US00	US	DSD Silencer	Granted	30-Mar-07	12/047001	12-Mar-08	US-2008-0240462	8081770	12/20/2011
P108266US00	P1034US00	US	dB LUT	Granted	26-Apr-07	12/108168	23-Apr-08	US-2008-0270441	8380937	10/27/2012
P110550US00	P1169US00	US	SROCR Hard	Granted	20-Mar-08	12/117421	8-May-08	US-2009-0238323	7702943	4/20/2010
P109028USPC	P1099USPC	US	SFQ ROM	Granted	26-Jan-06	12/160986	17-Jan-07	US-2010-0193842-A1	8472636	6/25/2013
P110284US00	P1008US00	US	10 Pin Mute	Granted	29-Aug-07	12/201893	29-Aug-08	US-2009-0058497	7683661	3/23/2010
P110283US00	P1007US00	US	Linear+ SDAC	Granted	6-Sep-07	12/203542	3-Sep-08	US-2009-0066552	7786916	8/31/2010

P108306US00	P1002US00	US	WLR FB	Granted	31-Jul-07	12/219074	15-Jul-08	US-2009-0033382	7667508	2/25/2010
P108319US00	P1019US00	US	Frac Div	Granted	31-Jul-07	12/219075	15-Jul-08	US-2009-0033376	7724048	5/25/2010
P109159US00	P1098US00	US	SPQ Gytrator	Granted	13-Nov-07	12/269632	12-Nov-08	US-2009-0123003	8045724	10/25/2011
P107777USPC	P1033USPC	US	MEMS Process	Granted	24-Feb-06	12/280669	23-Feb-07	US-2009-0152655	8497149	7/30/2013
P107775USPC	P1092USPC	US	MEMS SR	Granted	20-Mar-06	12/293537	20-Mar-07	US-2009-0278217	8643129	2/4/2014
P109030USPC	P1106USPC	US	SPQ 1B ADC	Granted	12-Apr-06	12/295709	11-Apr-07	US-2009-0046867	8165312	4/24/2012
P109438US00	P1105US00	US	ALC AmC	Granted	19-Dec-07	12/338348	18-Dec-08	US-2009-0161829	8315410	11/20/2012
P109412US00	P1102US00	US	BOF DAC	Granted	31-Mar-08	12/414,075	30-Mar-09	2009-0243902	7804434	9/28/2010
P110932US00	P1184US00	US	MEMS E-SCF	Granted	7-May-08	12/436909	7-May-09	2009-0279719	8068623	11/29/2011
P113856US01	P1074US01	US	Dual Loop Cont. 01	Granted	17-Dec-03	12/533422	15-Nov-04	2010-0020912	7949083	5/24/2011
P110971US00	P11861US00	US	Sample Rate Converter	Granted	13-Oct-08	12/578366	13-Oct-09	US-2010-0091922	7948405	5/24/2011
P109036USPC	P1160US00	US	SPQ ASM	Granted	9-May-07	12/599026	8-May-08	US-2010-0086144	8953814	2/10/2015
P110277US01	P1012US01	US	4 Switch Cont. 01	Granted	31-Aug-06	12/615291	28-Aug-07	US-2010-0052638-A1	7994763	8/9/2011
P110286US01	P1025US01	US	HLC Div. 01	Granted	5-Dec-06	12/630337	4-Dec-07	US-2010-00660498	7994954	8/9/2011
P1111713US00	P1198US00	US	MEMS E-CP Trim	Granted	30-Dec-08	12/649525	30-Dec-09	US-2010-0166228	8699726	4/15/2014
P111707US00	P1200US00	US	MEMS E-Poly PIN Diode	Granted	30-Dec-08	12/649541	30-Dec-09	US-2010-0164068	8581356	11/12/2013
P111468US00	P1195US00	US	MEMS E-Test	Granted	30-Dec-08	12/649623	30-Dec-09	US-2010-0219839-A1	8643382	2/4/2014
P111714US00	P1201US00	US	MEMS E-CP Leaky D	Granted	30-Dec-08	12/649879	30-Dec-09	US-2010-0166229	8750539	6/10/2014
P108672USPC	P1045US00	US	CI Macro	Granted	25-Jul-07	12/670,607	25-Jun-08	US-2010-0235413-A1	8751025	6/10/2014
P113920USPC	P1090US00	US	1L 2V	Granted	31-Jul-07	12/671364	25-Jul-08	US-2010-009194359-A1	8427121	4/21/2013
P108434USPC	P1119US00	US	V/SnF ₆ & VF	Granted	3-Aug-07	12/671639	4-Aug-08	US-2010-0219888-A1	8687826	4/11/2014
P109742USPC	P1126US00	US	AS-SV	Granted	3-Aug-07	12/671656	4-Aug-08	2011-0221533	8198941	6/12/2012
P108929USPC	P1096US00	US	MEMS x2 ICP	Granted	17-Aug-07	12/673925	15-Aug-08	US-2011-0089304-A1	8546170	10/1/2013

P108291USPC	P1029US00	US	MEMS BPS	Granted	19-Sep-07	12/678894	18-Sep-08	US-2010-0308425-A1	8841737	9/23/2014
P109143USPC	P1083US00	US	MEMS Fused	Granted	19-Sep-07	12/678903	18-Sep-08	2010-0244162	8482088	7/9/2013
P108926USPC	P1094US00	US	MEMS LBPS	Granted	19-Sep-07	12/678922	18-Sep-08	US-2010-0237447-A1	8198715	6/12/2012
P108181US01	P1031US01	US	MEMS DUAL SL CONT. 01	Granted	20-Mar-06	12/719999	20-Mar-07	US-2010-0155864-A1	7856804	12/28/2010
P110297USPC	P1130US00	US	CPIL	Granted	11-Dec-07	12/744073	8-Dec-08	US-2010-0277152-A1	8264273	9/11/2012
P109795USPC	P1139US00	US	TI OSIRF	Granted	21-Dec-07	12/745726	12-Dec-08	US-2010-0306297-A1	8645444	2/4/2014
P110272US03	P1069US03	US	Class G+ V/NV CP	Granted	22-Dec-06	12/759900	13-Dec-07	US-2010-0194479-A1	8373506	2/12/2013
P109794USPC	P1183US00	US	TI GCNL	Granted	21-Dec-07	12/808816	11-Dec-08	US-2010-0266137-A1	8737633	5/27/2014
P109792USPC	P1177US00	US	TI LRE	Granted	21-Dec-07	12/808951	12-Dec-08	US-2010-0310086-A1	8908876	12/9/2014
P109797USPC	P1181US00	US	TI FCDP	Granted	21-Dec-07	12/809028	12-Dec-08	US-2010-0322432-A1	8670571	3/11/2014
P109456USPC	P1161US00	US	MEMS E-DFL	Granted	7-May-08	12/812390	7-May-09	US-2010-0315272-A1	8913762	12/16/2014
P113901US01	P1075US01	US	AH 1.1 Adding inside codec	Granted	26-Nov-05	12/833222	28-Dec-05	2010-0317397	8433430	4/30/2013
P112948US00	P125USFF00	US	PMIC1 Reg Con ABC	Granted	22-Jul-09	12/841315	22-Jul-10	US-2011-0022859-A1	8612779	12/17/2013
P113612US00	P1237USFF00	US	PMIC1 BF Current limit	Granted	22-Jul-09	12/841309	22-Jul-10	US-2011-0018515-A1	8519691	8/27/2013
P112949US00	P1226USFF00	US	PMIC1 NYM ABC	Granted	22-Jul-09	12/841391	22-Jul-10	US-2011-0022826-A1	8607036	12/10/2013
P113611US00	P1256USFF00	US	PMIC1 BF Preset & SC	Granted	22-Jul-09	12/841604	22-Jul-10	US-2011-0018507-A1	8729880	5/20/2014
P113610US00	P1235USFF00	US	PMIC1 BF Level shift	Granted	22-Jul-09	12/841637	22-Jul-10	US-2011-0018588-A1	8638155	1/28/2014
P113609US00	P1234USFF00	US	PMIC1 BF Diode mode	Granted	22-Jul-09	12/841688	22-Jul-10	US-2011-0018516-A1	8513953	8/20/2013
P113608US00	P1233USFF00	US	PMIC1 BF Emulation	Granted	22-Jul-09	12/841722	22-Jul-10	US-2011-0050185-A1	8541593	9/24/2013
P110272US05	P1069US05	US	Class G+ V-N+1	Granted	22-Dec-06	12/966228	13-Dec-07	US-2011-0103619-A1	8183931	5/22/2012
P110272US06	P1069US06	US	Class G+ Controller	Granted	22-Dec-06	12/966248	13-Dec-07	US-2011-0115563	8279012	10/2/2012
P109266USPC	P1101US00	US	DC CAL	Granted	7-May-08	12/991199	7-May-09	US-2011-0055877-A1	8524703	9/2/2014

P109975USPC	P1131US00	US	TI RxTx	Granted	27-Jun-08	13/091586	24-Jun-09	US-2011-0130176-A1	8682250	3/23/2014
P113856US02	P1074US02	US	Dual Loop Cont. 2	Granted	17-Dec-03	13/113168	15-Nov-04	2011-0221487	8537957	9/17/2013
P110271US01	P1071US01	US	2TB CAP	Granted	22-Dec-06	13/151987	13-Dec-07	2011-0234305	8427851	4/23/2013
P110272US04	P1069US04	US	Class G+ CLCP	Granted	22-Dec-06	13/152770	13-Dec-07	2011-0235827	8660277	2/23/2014
P110277US02	P1012US02	US	4 Switch Cont. 2	Granted	31-Aug-06	13/184101	28-Aug-07	2011-0273151	8159200	4/17/2012
P115799US00	P1243US00	US	NBY PROXDE	Granted	21-Oct-10	13/271926	12-Oct-11	US-2012-099736-A1	8831238	9/9/2014
P1108149US01	P1009US01	US	DSD Silence Codes	Granted	30-Mar-07	13/298109	12-Mar-08	US-2012-0065754	8331581	12/11/2012
P116040US00	P1252US00	US	DC Cal MBI	Granted	16-Dec-10	13/327009	15-Dec-11	US-2010-0154032-A1	8624669	1/7/2014
P115853US01	P1249US01	US	CP Calibus/Theo/Horus	Granted	23-Dec-10	13/403450	27-Dec-10	2012-0163632	8890604	1/18/2014
P109030USPC01	P1106USPC01	US	SPQ 1B ADC Cont. 01	Granted	12-Apr-06	13/416707	11-Apr-07	US-2012-0170785	8644523	2/4/2014
P109742USPC01	P1126US01	US	AS-S/V Broadr	Granted	3-Aug-07	13/490070	4-Aug-08	US-2012-0342413-A1	8514025	8/20/2013
P110297USPC01	P1130US01	US	CPIL JF&EQ	Granted	11-Dec-07	13/603222	8-Dec-08	US-2012-0326771-A1	8508288	8/13/2013
P118293US00	P1268US00	US	Class D DFF	Granted	11-Nov-11	13/673760	9-Nov-12	US-2013-0129063	8854132	10/7/2014
P118341US00	P1269US00	US	Class D OfSet	Granted	18-Nov-11	13/677182	14-Nov-12	US-2013-0127531-A1	8957731	2/17/2015
P113901US02	P1073US01	US	AH 1.1 Adding inside vcode	Granted	26-Nov-05	13/869726	28-Dec-05	2013-0237285	8843227	9/23/2014
P108929USPC01	P1096US01	US	MEMS x2 ICP Package	Granted	17-Aug-07	13/902344	15-Aug-08	US20130256816 A1	8698256	4/15/2014
P119375US00	P1278US00	US	SS VCO	Granted	30-May-12	13/902638	24-May-13	US-2013-0321190-A1	8742970	6/3/2014
P109742USPC02	P1126US02	US	VSUS	Granted	3-Aug-07	13/942303	4-Aug-08	US-2013-0300508-A1	8988149	3/24/2015
P122056US00	P1305US00	US	MEMS-P Vent	Granted	24-Sep-12	13/974797	23-Aug-13	US20140084396 A1	8737171	5/27/2014
P122056US01	P1305US01	US	MEMS-P Plug	Granted	24-Sep-12	14/176811	23-Aug-13	US 2014 0161290	8987844	3/24/2015
P108929USPC02	P1096US02	US	MEMS x2 ICP Chip	Granted	17-Aug-07	14/203131	15-Aug-08	US2014-0191344-A1	8803261	8/12/2014
P115363US00	P1339US00	US	Blockwise HCD	Pending	10-Sep-10	13/229101	9-Sep-11	US-2012-0062190-A1		
P115852US00	P1245US00	US	CP Armis/Ra	Pending	23-Dec-10	13/356835	33-Dec-11	US-2012-0170770		
P119546US00	P1279US00	US	AH Elastic Switching TDM+	Pending	27-May-11	13/481403	25-May-12	US-2012-		

P11302USPC	P1230USPC	US	2 Speed Interface	Pending	17-Dec-09	13/515885	17-Dec-10	US-2012-0272889
P116982US00	P1255US00	US	PLL Sync	Pending	21-Nov-11	13/678300	15-Nov-12	US
P12633US00	P1291US00	US	PLM PWM	Pending	14-Dec-11	13/715495	14-Dec-12	US-2013-0197920-A1
P118757US00	P1274US00	US	NBY Churchill's Error Mic	Pending	21-Feb-12	13/773,276	21-Feb-13	US-2013-0216040-A1
P118686US00	P1272US00	US	NBY-WUNODE	Pending	16-Mar-12	13/796,120	12-Mar-13	US-2013-0243214-A1
P110271US02	P1071US02	US	2PB CAP D/SC	Pending	22-Dec-06	13/854707	13-Dec-07	US-2013-0314151-A1
P109028USPC01	P1099USPC01	US	SPQ ROM Mobile	Pending	26-Jan-06	13/919743	17-Jan-07	US
P107777USPC01	P1031USPC01	US	MEMS-P Mic Array	Pending	24-Feb-06	13/937067	23-Feb-07	US-2014-0016798-A1
P109033USPC01	P1109US01	US	SPQ Leaky Earbuds	Pending	16-Feb-07	13/952035	6-Feb-08	US-2013-0308786-A1
P113608US01	P1233USFF01	US	PMIC1 BF pulse skipping	Pending	22-Jul-09	13/953317	22-Jul-10	US-2013-0314462-A1
P117062USPC	P1262USPC	US	NBY Churchill's Ashtray	Pending	10-Dec-10	13/992,196	9-Dec-11	US-2013-0266150-A1
P121283US00	P1200US00	US	NBY Leisure Pent +	Pending	14-Sep-12	14/024436	11-Sep-13	US-2014-0513753
P120212US00	P1290US00	US	NBY AGA-HPF	Pending	12-Oct-12	14/054555	15-Oct-13	2014-0105413
P116040US01	P1252US01	US	DC Cal Mkt: Muxed Loops	Pending	16-Dec-10	14/142276	15-Dec-11	US2014/0112300 A1
P109030USPC02	P1106USPC02	US	SPQ 1B ADC Cont. 02	Pending	12-Apr-06	14/142329	11-Apr-07	US2014/0112492 A1
P111468US01	P1193US01	US	MEMS E-Test Broaden	Pending	30-Dec-08	14/156723	30-Dec-09	US2014/0132294 A1
P110272US07	P1069US07	US	Class G+ DMCP-y	Pending	22-Dec-06	14/174553	13-Dec-07	US-2014-0512588
P108434USPC01	P1119US01	US	1-Bit ETA-V	Pending	3-Aug-07	14/182445	4-Aug-08	
P117672USPC	P1264USPC	US	NBY Neutral Emissions MKII	Pending	15-Jul-11	14/232834	6-Jul-12	US-2014-0169584
P120892US00	P1296US00	US	Mic Clamp	Pending	11-Apr-13	14/244075	3-Apr-14	US2014-0307910-A1
P121061US00	P1299US00	US	ALON x2 Speech Path	Pending	26-Jun-13	14/314182	25-Jun-14	US2015-0039303-A1
P121869US00	P1301US00	US	OS Env Det	Pending	5-Jul-13	14/322,747	2-Jul-14	US2015-

P120128USPC	P1284USPC	US	MEMS-P Strong Membrane	Pending	24-Sep-12	14/430438	19-Sep-13	0808962-A1
P120129USPC	P1285USPC	US	MEMS-P Carwheel	Pending	24-Sep-12	14/430466	19-Sep-13	
P121945US01	P1303US00	US	MEMS-E LNA Vbs	Pending	2-Aug-13	14/448848	31-Jul-14	
P10829USPC03	P1096US03	US	MEMS s2 ICP BV=X,Y+	Pending	17-Aug-07	14/452067	15-Aug-08	US-2014-0341402-A1
P11391US04	P1075US04	US	AH 1.4 Codec	Pending	28-Dec-05	14/481486	9-Sep-14	
P122368US00	P1307US00	US	Class D Multi-Rate	Pending	23-Oct-13	14/521191	22-Oct-14	
P115855US02	P1249US02	US	CP Callidus/Thoth/Horus	Pending	23-Dec-10	14/542086	27-Dec-10	
P109792USPC01	P1177US01	US	THLRE-ACOF	Pending	21-Dec-07	14/551832	12-Dec-08	
P122284US00	P1308US00	US	MEMS-E Vbg Bias	Pending	19-Dec-13	14/574714	18-Dec-14	
P109036USPC01	P1160US01	US	SFC ASM Plug & Socket	Pending	9-May-07	14/601834	8-May-08	
P122264US00	P1306US00	US	SP Thermal & Signal	Pending	24-Jan-14	14/602585	23-Jan-15	
P109742USPC03	P1126US03	US	Dither S/V	Pending	3-Aug-07	14/626468	4-Aug-08	
P122056US02	P1305US02	US	MEMS-P Plug in Aperture	Pending	24-Sep-12	14/636793	23-Aug-13	
P125386USPROV	P1328USPROV	US	MEMS-Pa WLP x2 ICP Bottom Port	Pending	23-Dec-14	62/096363	23-Dec-14	
P125366USPROV	P1329USPROV	US	ALON Mic FeatureX	Pending	23-Dec-14	62/096424	23-Dec-14	
P125109USPROV	P1324USPROV	US	MEMS-Pa WLP Process Flow	Pending	23-Dec-14	62/096445	23-Dec-14	
P125383USPROV	P1327USPROV	US	MEMS-Pa WLP Lower Side Port	Pending	23-Dec-14	62/096480	23-Dec-14	
P125234USPROV	P1326USPROV	US	MEMS - Pa WLP TSL Ports	Pending	23-Dec-14	62/096494	23-Dec-14	
P124530USPROV	P1319USPROV	US	MEMS-P Horseshoe SR Hole	Pending	26-Jan-15	62/107898	26-Jan-15	
P125674USPROV	P1330USPROV	US	SP Multiband	Pending	2-Feb-15	62/110865	2-Feb-15	
P12570USPROV	P1331USPROV	US	USBC Analog ANC	Pending	25-Feb-15	62/120587	25-Feb-15	
P124803USPROV	P1332USPROV	US	DAJ Series Shunt	Pending	9-Mar-15	62/130233	9-Mar-15	
P125811USPROV	P1334USPROV	US	DAJ Enumeration	Pending	9-Mar-15	62/130254	9-Mar-15	
P125818USPROV	P1333USPROV	US	DAJ Low Power Mode	Pending	9-Mar-15	62/130304	9-Mar-15	
P123056CNPC	P1305CNPC	US	MEMS-P Vent	Pending	24-Sep-12	TBC	19-Sep-13	
P122056KRPC	P1305KRPC	US	MEMS-P Vent	Pending	24-Sep-12	TBC	19-Sep-13	