

PATENT ASSIGNMENT COVER SHEET

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NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
KNOWLES IPC (M) SDN. BHD.	04/27/2016
RECEIVING PARTY DATA	
Name:	KNOWLES ELECTRONICS (BEIJING) CO., LTD.
Street Address:	20 TONGJI SOUTH ROAD
Internal Address:	BEIJING ECONOMIC-TECHNOLOGICAL DEVELOPMENT AREA
City:	BEIJING
State/Country:	CHINA
Postal Code:	100176
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	62237961
Application Number:	15286823
CORRESPONDENCE DATA	
Fax Number:	(866)890-2670
<i>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.</i>	
Phone:	3126272272
Email:	szeller@dykema.com
Correspondent Name:	STEVEN MCMAHON ZELLER
Address Line 1:	10 SOUTH WACKER DRIVE
Address Line 2:	SUITE 2300
Address Line 4:	CHICAGO, ILLINOIS 60606
ATTORNEY DOCKET NUMBER:	065722-0196
NAME OF SUBMITTER:	STEVEN MCMAHON ZELLER
SIGNATURE:	/Steven McMahon Zeller/
DATE SIGNED:	10/06/2016
Total Attachments: 7	
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PATENT ASSIGNMENT

This Patent Assignment (this "Assignment") is effective as of April 27, 2016 ("Effective Date") between **Knowles IPC (M) Sdn. Bhd.**, a company with limited liability organized under the laws of Malaysia, having its principal office and place of business at Plot 104, Lebuhraya Kampung Jawa, Bayan Lepas Industrial Estate, 11900 Penang, Malaysia (the "Assignor"), and **Knowles Electronics (Beijing) Co., Ltd.**, a private limited liability company incorporated in China, having its principal office and place of business at 20 Tongji Road South, Beijing Economic Technological Development Zone, Beijing, China, 10076 (the "Assignee").

WHEREAS, **Assignor**, the owner of the patents and/or patent applications set forth on Schedule A hereto, wishes to assign to **Assignee**, and **Assignee** wishes to obtain from **Assignor**, the patent applications and/or patents set forth on attached Schedule A, together with all associated patent rights to the inventions disclosed therein (the "Patents").

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is acknowledged, **Assignor** assigns to **Assignee** its entire right, title, and interest in and to the Patents, for the United States or for all other countries. This assignment includes, without limitation, any continuations, divisions, continuations-in-part, reissues, reexaminations, extensions or foreign equivalents of the Patents, and includes the subject matter of all claims that may be obtained therefrom, and all other corresponding rights that are or may be secured under the laws of the United States or any foreign country, now or hereafter in effect, for **Assignee's** own use and enjoyment, and for the use and enjoyment of **Assignee's** successors, assigns, or other legal representatives, as fully and entirely as the same would have been held and enjoyed by **Assignor** if this Assignment had not been made.

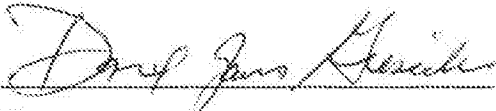
This Assignment includes all income, royalties, damages, or payments due or payable as of the Effective Date or thereafter, including, without limitation, all claims for damages by reason of past, present, or future infringement or other unauthorized use of the Patents, together with the right to sue for and to collect such damages for its own use and enjoyment, and for the use and enjoyment of its successors, assigns, or other legal representatives.

Except as may be expressly provided in a separate written agreement between the parties, **Assignor** makes no warranties, express or implied, with respect to the Patents.

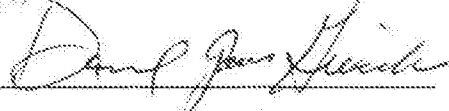
Assignor authorizes and requests that the Patent Office officials in the United States and in any and all foreign countries to record **Assignee** as owner of the Patents. **Assignor** shall, at the cost and expense of **Assignee**, take all reasonable actions and execute all documents necessary to record and perfect the interest of the **Assignee** in and to the Patents, and shall not enter into any agreement in conflict with this Assignment.

IN WITNESS WHEREOF, each party has caused this Assignment to be executed as of the indicated date by its duly authorized officer/representative.

Knowles IPC (M) Sdn. Bhd.
(Assignor)

By: 
Name: Daniel James Giesecke
Title: Director

Knowles Electronics (Beijing) Co.,
Ltd.
(Assignee)

By: 
Name: Daniel James Giesecke
Title: Director

Schedule A

US Family	KS Ref. No.	US Ref. No.	Pub. No.	Pub. Date	Pub. No.	Pub. Date	Pub. No.	Pub. Date	Pub. No.	Pub. Date	Pub. No.	Pub. Date
81409332	81409332	112256-0087	US	Published	Continuation	Loudspeaker System With Improved Sound	03-Jun-15	147729-776	2015-03-15	2015-03-15	03-Jun-15	147729-776
81409332	81409332	112256-0090	US	Published	Continuation	Loudspeaker System With Improved Sound	03-Jun-15	147729-776	2015-03-15	2015-03-15	03-Jun-15	147729-776
81418507	81418507	112257-0068	DE	Granted	Designated EP	Loudspeaker with port comprising a particle filter	03-May-11	11164611-3	2011-05-11	2011-05-11	03-May-11	11164611-3
81418507	81418507	112257-0071	CN	Published	Designated PCT	Loudspeaker with port comprising a particle filter	03-May-11	20128002324-2	2011-05-11	2011-05-11	03-May-11	20128002324-2
81418507	81418507	112256-0072	US	Granted	Designated PCT	Loudspeaker with port comprising a particle filter	03-May-11	137115-592	2011-05-11	2011-05-11	03-May-11	137115-592
81419048	81419048	112256-0068	EP	Published	Priority	Packaging Of Acoustic Volume Increasing Materials For Loudspeakers	04-May-11	1115-7027-4	2011-05-11	2011-05-11	04-May-11	1115-7027-4
81419048	81419048	112256-0073	GB	Published	Designated PCT	Packaging Of Acoustic Volume Increasing Materials For Loudspeakers	05-May-11	201230021266-3	2011-05-11	2011-05-11	05-May-11	201230021266-3
81419048	81419048	112256-0066	GB	Published	Divisional	Packaging Of Acoustic Volume Increasing Materials For Loudspeakers	05-May-11	201510386488-3	2011-05-11	2011-05-11	05-May-11	201510386488-3
81419048	81419048	112256-0078	US	Granted	Designated PCT	Packaging Of Acoustic Volume Increasing Materials For Loudspeakers	05-May-11	147729-456	2011-05-11	2011-05-11	05-May-11	147729-456
81419048	81419048	112256-0078	US	Published	Continuation	Packaging Of Acoustic Volume Increasing Materials For Loudspeakers	02-Jun-15	147729-456	2011-05-11	2011-05-11	02-Jun-15	147729-456
81419048	81419048	112256-0085	US	Published	Continuation	Packaging Of Acoustic Volume Increasing Materials For Loudspeakers	02-Jun-15	147729-456	2011-05-11	2011-05-11	02-Jun-15	147729-456
81419048	81419048	112257-0055	DE	Granted	Designated EP	Electroacoustic Transducer Having Diaphragm With Coil Mounting Projections And Interposed Stabilizing Walls	27-Dec-08	00987447-9	2008-12-27	2008-12-27	27-Dec-08	00987447-9
81419048	81419048	112257-0056	EP	Granted	Designated PCT	Electroacoustic Transducer Having Diaphragm With Coil Mounting Projections And Interposed Stabilizing Walls	27-Dec-08	2001-554659	2008-12-27	2008-12-27	27-Dec-08	2001-554659
81419048	81419048	112257-0052	US	Granted	Designated PCT	Electroacoustic Transducer Having Diaphragm With Coil Mounting Projections And Interposed Stabilizing Walls	25-Jan-01	087449183	2001-01-25	2001-01-25	25-Jan-01	087449183
81419048	81419048	112257-0052	GB	Granted	Designated PCT	Electroacoustic Transducer Having Diaphragm With Coil Mounting Projections And Interposed Stabilizing Walls	31-Jan-02	07800790-3	2002-01-31	2002-01-31	31-Jan-02	07800790-3
81419048	81419048	112257-0059	US	Granted	Designated PCT	Method For Manufacturing An Electroacoustical Transducer Comprising A Membrane Configuration	08-Feb-02	16707237-1	2002-02-08	2002-02-08	08-Feb-02	16707237-1
81419048	81419048	112257-0071	US	Granted	Divisional	Method For Manufacturing An Electroacoustical Transducer Comprising A Membrane Configuration	30-Aug-04	16793111-1	2004-08-30	2004-08-30	30-Aug-04	16793111-1
81419048	81419048	112257-0073	US	Granted	Divisional	Method For Manufacturing An Electroacoustical Transducer Comprising A Membrane Configuration	30-Aug-04	11737338-1	2004-08-30	2004-08-30	30-Aug-04	11737338-1
81419048	81419048	112257-0057	CN	Granted	Designated PCT	Electroacoustic Transducer With Built In Transducer Circuit	18-Jul-03	03818225-4	2003-07-18	2003-07-18	18-Jul-03	03818225-4
81419048	81419048	112257-0075	US	Granted	Designated PCT	Electroacoustic Transducer With Built In Transducer Circuit	18-Jul-03	167523435	2003-07-18	2003-07-18	18-Jul-03	167523435
81419048	81419048	112257-0077	GB	Granted	Designated PCT	Electroacoustic Transducer Comprising A Membrane With A Mobile Area Comprising Stiffening Grooves	31-Dec-03	21030103958-3	2003-12-31	2003-12-31	31-Dec-03	21030103958-3
81419048	81419048	112257-0028	US	Granted	Designated PCT	Electroacoustic Transducer Comprising A Membrane With A Mobile Area Comprising Stiffening Grooves	31-Dec-03	167523435	2003-12-31	2003-12-31	31-Dec-03	167523435
81419048	81419048	112257-0079	GB	Granted	Designated PCT	Generating Device For Generating A Useful Stream Of A Medium In Particular For Generating Sound	26-Feb-04	21048000237-3	2004-02-26	2004-02-26	26-Feb-04	21048000237-3
81419048	81419048	112257-0091	DE	Granted	Designated EP	Generating Device For Generating A Useful Stream Of A Medium In Particular For Generating Sound	26-Feb-04	03714868-5	2004-02-26	2004-02-26	26-Feb-04	03714868-5
81419048	81419048	112257-0090	US	Granted	Designated PCT	Generating Device For Generating A Useful Stream Of A Medium In Particular For Generating Sound	26-Feb-04	107546306	2004-02-26	2004-02-26	26-Feb-04	107546306
81419048	81419048	112257-0092	US	Granted	Designated PCT	Device For Generating A Medium Stream	28-Jun-04	207562873	2004-06-28	2004-06-28	28-Jun-04	207562873
81419048	81419048	112257-0093	CN	Granted	Designated PCT	An Electro-Acoustic Transducer Comprising A Resonator	12-Nov-04	200460019528-6	2004-11-12	2004-11-12	12-Nov-04	200460019528-6
81419048	81419048	112257-0098	DE	Granted	Designated EP	Electro-Acoustic Transducer Comprising An Electronic Circuit	17-Nov-04	04799131-8	2004-11-17	2004-11-17	17-Nov-04	04799131-8
81419048	81419048	112257-0095	DE	Granted	Designated EP	Electro-Acoustic Apparatus With A Channel Means To Change The Acoustic Output	24-Nov-04	04799227-7	2004-11-24	2004-11-24	24-Nov-04	04799227-7
81419048	81419048	112257-0034	US	Granted	Designated PCT	Electro-Acoustic Apparatus Comprising An Electro-Acoustic Transducer	24-Nov-04	107580155	2004-11-24	2004-11-24	24-Nov-04	107580155
81419048	81419048	112257-0036	CN	Granted	Designated PCT	Method Of And Device For Modifying The Properties Of A Membrane For An Electroacoustic Transducer	08-Feb-05	210501005998-9	2005-02-08	2005-02-08	08-Feb-05	210501005998-9

Schedule A

US Family	US Ref. No.	US Ref. No.	Pub. No.	Pub. Date	Pub. No.	Pub. Date	Pub. No.	Pub. Date	Pub. No.	Pub. Date		
A1040008	A10400080501	312257-0037	US	Granted	Designated PCT	Method Of And Device For Modifying The Properties Of A Membrane For An Electroacoustic Transducer	08-Feb-05	30-599-923	02-Aug-07	2007/0376243 A1	14-Jan-14	8-618-830
A1040017	A10400170001	312257-0038	US	Granted	Designated PCT	Diaphragm For A Loudspeaker With A Moving Coil	09-Apr-05	33-787-236	13-Sep-07	174-8863	26-Aug-08	7-616-087
A1040026	A10400260001	312257-0043	DE	Granted	Designated EP	Method Of Manufacturing A Coil	16-Aug-05	05-747-883	03-Jun-08	2008/0001016 A1	24-Dec-10	620305025502 B
A1040056	A10400560001	312257-0059	US	Granted	Designated PCT	Method Of Manufacturing A Coil	16-Aug-05	33-754-256	03-Jun-08	2008/0001016 A1	19-Apr-11	7-316-158
A1040073	A10400730001	312257-0041	CR	Granted	Designated PCT	Vibrating Element For An Electroacoustic Transducer	20-Sep-05	2008000198335	24-Oct-07	10-061738 A	19-Jun-14	202805000393835 5
A1040071	A10400710001	312256-0033	FR	Published	Designated PCT	Vibrating Element For An Electroacoustic Transducer	20-Sep-05	289876161872007	17-Aug-07	2005/0330075		
A1050025	A10500250001	312257-0042	FR	Granted	Designated PCT	Membrane With High Resistance Against Buckling And/Or Crumpling	01-Mar-06	2006800071201	09-Nov-08	201147622	21-Nov-12	21-0008000762021
A1050025	A10500250002	312256-0006	EP	Published	Designated PCT	Membrane With High Resistance Against Buckling And/Or Crumpling	01-Mar-06	067109307_6	28-Nov-07	38-596-83		
A1050025	A10500250001	312256-0005	FR	Published	Designated PCT	Membrane With High Resistance Against Buckling And/Or Crumpling	01-Mar-06	771372618872007	04-Jul-08	771372618872007		
A1050025	A10500250003	312257-0043	FR	Granted	Designated PCT	Membrane With High Resistance Against Buckling And/Or Crumpling	01-Mar-06	10-2035-7023010	17-Dec-07	1020070318627	03-Nov-12	10-1399689
A1050025	A10500250004	312257-0044	US	Granted	Designated PCT	Membrane With High Resistance Against Buckling And/Or Crumpling	01-Mar-06	317908-288	28-Jun-08	2808-0202845 A1	12-Jan-10	7-834-801
F-097574	F-0975740501	312257-0058	FR	Granted	Secondary	Loudspeaker And Telephone Device Comprising Such A Loudspeaker	25-Feb-98	09-0300833			18-Apr-00	6-952-463
K-0083	K-0083	312256-0114	DE	Published	Secondary	Integrated Speaker Assembly	16-Oct-14	50-507-152	23-Apr-15	US 2015-01103 B1 A1		
K-0081	K-0081	312256-0115	CN	Application	Designated PCT	Integrated Speaker Assembly	43919					
K-0081	K-0081	312256-0116	DE	Application	Designated PCT	Integrated Speaker Assembly	43919					
K-0084	K-0084	312256-0120	FR	Published	Secondary	Integrated Speaker Assembly	43919	18-50447594613	42110	W0 2015/0942246		
K-0083	K-0083	312256-0121	FR	Application	Secondary	Integrated Speaker Assembly	09-Oct-14	103155169	16-Jul-15	W0 2015/198830		
K-0077	K-0077	312256-0117	US	Application	Priority	Integrated Acoustic Receiver and Antenna Apparatus and Method of Operation	3-7-06-15	6211801889				
K-0114	K-0114	312256-0118	US	Application	Priority	Speaker with Coil Antenna	15-Nov-15	621293281				
K-0171	K-0171	312256-0082	FR	Application	Priority	Acoustic Box Cover With Mesh Insert	23-Dec-15	2015109410278				
K-0171	K-0171	312256-0083	CN	Application	Utility Model	Acoustic Box Cover With Mesh Insert	23-Dec-15	2015110849617				
K-0177	K-0177	312256-0085	FR	Application	Priority	Acoustic Box Insert Cover	23-Dec-15	2015109988402				
K-0174	K-0174	312256-0086	CN	Application	Utility Model	Acoustic Box Insert Cover	23-Dec-15	2015110842164				
K-0173	K-0173	312256-0092	US	Provisional	Priority	Membrane for Electroacoustic Transducer	19-Feb-16	621257546				
K-0174	K-0174	312256-0093	US	Provisional	Priority	Device for Electroacoustic Transducer and Method of Manufacturing Same	19-Jan-16	6212801505				
K-0175	K-0175	312256-0094	US	Provisional	Priority	Membrane for Electroacoustic Transducer and Method of Manufacturing Same	22-Mar-16	621311532				
K-0176	K-0176	312256-0095	US	Provisional	Priority	Electrodynamic Loudspeaker Membrane with Molded Electrical Connections	22-Mar-16	621311525				
K-0177	K-0177	312256-0061	FR	Application	Secondary	Electrodynamic Transducer in Ultrasonic Mode	11-Feb-16	FR 2912016 0501008				
K-0195	K-0195	312256-0100	US	Application	Secondary	Rotary Flux Acoustic Transducer	30-Dec-15	34-9951879				
K-0195	K-0195	312256-0098	WO	Application	Secondary	Rotary Flux Acoustic Transducer	30-Dec-15	FR 2915206 032				
K-0212	K-0212	312256-0111	US	Provisional	Priority	Membrane for Loud Speaker	16-Mar-16	6213091378				
K-0213	K-0213	312256-0112	US	Provisional	Priority	Electroacoustic Transducer with Improved Frame Construction	17-Mar-16	6213091965				
K-0214	K-0214	312256-0113	US	Provisional	Priority	Electroacoustic Transducer with Improved Thermal Characteristics	17-Mar-16	6213091966				
K-0226	K-0226	312256-0089	US	Provisional	Priority	Loudspeaker Membrane and Method of Making Same	01-Oct-15	6212351943				
K-0226	K-0226	312256-0097	US	Provisional	Priority	Loudspeaker Membrane and Method of Making Same (provisional 2 of 2)	13-Mar-16	621311525				
EA2010081	EA20100810001	312256-0030	CN	Published	Designated PCT	Transducer with Motion Control	01-Mar-13	2013000125373	28-Nov-14	108172834		
EA2010081	EA20100810001	312256-0031	DE	Published	Designated PCT	Transducer with Motion Control	01-Mar-13	112013012944	24-Dec-14	1120130129415		
EA2010081	EA20100810001	312256-0033	FR	Application	Designated PCT	Transducer with Motion Control	01-Mar-13	79397581 MF79014				
EA2010081	EA20100810002	312256-0032	US	Granted	Designated PCT	Transducer with Motion Control	01-Mar-13	101363160	15-Jan-15	20150016570 A1	29-Mar-16	9-303-077
EA2010081	EA20100810001	312256-0041	US	Published	Priority	Double Coil Speaker	16-Apr-13	33-871-746	30-Oct-14	2014-0321090		

PATENT

REEL: 039958 FRAME: 0537

Schedule A

KS Family	KS Ref. No.	US Ref. No.	City	Status	Case Type	Title	File Date	App. No.	Publ. Date	Publ. No.	Issue Date
KEA2013001	KEA201300117001	112256-0095	CN	Published	Designated PCT	Double Coil Speaker	24-Apr-14	201460023796A	09-Dec-15	105144748A	198-08
KEA2013001	KEA201300117001	112256-0096	DE	Published	Designated PCT	Double Coil Speaker	24-Apr-14	1120440023796A	07-Jan-16	DE 1120440023796A	
KEA2013002	KEA201300215002	112256-0103	US	Application	Designated PCT	Hearing Aid Compatible Mobile Speaker	25-Jun-13	147933528			
KEA2013002	KEA201300217001	112256-0102	CN	Published	Designated PCT	Hearing Aid Compatible Mobile Speaker	25-Jun-13	20348930365719	17-Feb-16	CN 105340197A	
KEA2013002	KEA201300215001	112256-0101	DE	Published	Designated PCT	Hearing Aid Compatible Mobile Speaker	25-Jun-13	1120140030333	24-Mar-16	DE 1120140030333	
KEA2013003	KEA201300315001	112256-0017	US	Published	Priority	Speaker With Grained Zeolite Material in Deep-Drawn Foil Resonance Volume	11-Sep-13	162073777	12-Mar-15	10510827722	
KEA2013003	KEA201300317001	112256-0109	DE	Application	Designated PCT	Speaker With Grained Zeolite Material in Deep-Drawn Foil Resonance Volume	08-Sep-14	20146003501982			
KEA2013003	KEA201300315001	112256-0110	DE	Application	Designated PCT	Speaker With Grained Zeolite Material in Deep-Drawn Foil Resonance Volume	08-Sep-14				
KEA2013003	KEA201300317002	112256-0029	WO	Published	Secondary	Speaker With Grained Zeolite Material in Deep-Drawn Foil Resonance Volume	08-Sep-14	1620141000218	19-Mar-15	WO 2015/0157977	
KEA2013004	KEA201300415001	112256-0037	US	Published	Secondary	Apparatus with a Speaker used as Second Microphone	19-Nov-14	147547377	21-May-15	2015/0138478A1	
KEA2013004	KEA201300417001	112256-0038	WO	Published	Secondary	Apparatus with a Speaker used as Second Microphone	19-Nov-14	1620161000264	16-Apr-15	WO 2015/076684	
KEA2014001	KEA201400117001	112256-0059	CN	Granted	Utility Model	Multi-layer Membrane for Miniature Loudspeaker	28-Apr-15	2015202713989			24-Feb-16
KEA2014001	KEA201400115001	112256-0058	US	Published	Secondary	Acoustic Membrane with Asymmetric Layer Arrangement	29-Apr-15	147699548	29-Oct-15	US 2015-0312663A1	
KEA2014002	KEA201400215001	112256-0028	US	Application	Priority	Coil Stator for Microspeaker	30-Oct-15	147528413			
KEA2015005	KEA201500515001	112256-0049	US	Provisional	Priority	Frameless Audio Transducer	15-Apr-15	627147760			
KEA2015005	KEA201500517001	112256-0123	WO	Application	Secondary	Frameless Audio Transducer for Mobile Applications	15-Apr-16	PCT/NY2016/050023			
KEA2015005	KEA201500515001	112256-0056	US	Provisional	Priority	Supporting Coil Wire	15-Apr-15	627147760			
KEA2015006	KEA201500615001	112256-0062	US	Provisional	Priority	Acoustic Sound Adsorption Material with Attached Spherical Matrix	16-Apr-15	627148481			
KEA2015006	KEA201500617001	112256-0125	US	Application	Secondary	Acoustic Sound Adsorption Material with Attached Spherical Matrix	15-Apr-16	137180138			
KEA2015006	KEA201500615002	112256-0124	WO	Application	Secondary	Acoustic Sound Adsorption Material with Attached Spherical Matrix	15-Apr-16	PCT/NY2016/050024			
KEA2015007	KEA201500715001	112256-0063	US	Provisional	Priority	Acoustic Sound Adsorption Material for Surface Treatment and Method of Using Same	16-Apr-15	627368495			
KEA2015008	KEA201500815001	112256-0064	US	Provisional	Priority	Acoustic Sound Adsorption Material Having Multi-Sized Spines	16-Apr-15	627368507			
KEA2015009	KEA201500915001	112256-0065	US	Provisional	Priority	Capacitor Membrane Positioning Tracking System	18-Sep-15	627358772			
KEA2015011	KEA201501115001	112256-0063	US	Provisional	Priority	Electric Backing Mode Damper for Loudspeaker	20-Jul-15	627194764			
KEA2015012	KEA201501215001	112256-0077	US	Provisional	Priority	Ultrasonic Lens for Acoustic Application	19-Oct-15	627283319			
KEA2015012	KEA201501217001	112256-0078	US	Provisional	Priority	Ultrasonic Noise Sensor	02-Oct-15	627357144			
KEA2015013	KEA201501315001	112256-0079	US	Application	Priority	Integrated Loudspeaker Device Having an Acoustic Chamber Containing Sound Absorber Material	04-Aug-15	147818063			
KEA2015014	KEA201501415001	112256-0090	US	Application	Priority	Loudspeaker Device Having Foam Insert to Improve Gas Distribution in Sound Absorber Material	07-Aug-15	147821461			
KEA2015015	KEA201501515001	112256-0088	US	Provisional	Priority	Supporting Frame for Acoustic Membrane and Method of Manufacturing Same	29-Sep-15	627234523			
KEA2015016	KEA201501617002	112256-0084	CN	Application	Utility Model	Loudspeaker Membrane Made via Spray Coating Process	42461	2016102709635			
KEA2015016	KEA201501615001	112256-0122	US	Application	Secondary	Loudspeaker Membrane and Method of Making Same via Spray Coating Process	42463	2016102031465			
KEA2015017	KEA201501715001	112256-0090	US	Provisional	Priority	Electroacoustic Transducer (Droplet)	06-Oct-15	627373961			
KEA2015018	KEA201501815001	112256-0091	US	Provisional	Priority	Electroacoustic Transducer with Flexible Cylindrical Component	06-Oct-15	627231967			
KEB2011001	KEB201100117001	112257-0071	CN	Granted	Utility Model	Magnetic Circuit System and Moving-Coil Electroacoustic Transducer Comprising Same	15-Nov-11	2011104576293	25-Jun-12	2013538004U	21-06-12
KEB2011002	KEB201100217001	112257-0072	CN	Granted	Utility Model	Magnetic Circuit System and Moving-Coil Electroacoustic Transducer Comprising Same	13-Nov-11	2011104576495	25-Jun-12	2013538002U	21-06-12
KEB2011003	KEB201100317001	112257-0070	CN	Granted	Utility Model	Micro Electroacoustic Transducer	27-Dec-11	2011203552571	22-Sep-12	201455596U	12-Sep-12
KEB2012001	KEB201200115002	112257-0073	CN	Granted	Utility Model	Miniature Electroacoustic Transducer	15-Mar-12	2012200976439	08-Mar-13	202764315U	06-Mar-13
KEB2012001	KEB201200117001	112256-0042	CN	Granted	Priority	Miniature Electroacoustic Transducer	12-Jun-12	2012109686672	18-Jul-12	105582382A	19-Aug-15

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Schedule A

CS Family	KS Ref. No.	CG Ref. No.	Pub. No.	Status	Class Type	Sub	Pub. Date	Pub. No.	Pub. Date	Pub. No.	Pub. Date
KEB2012003	KEB2012003A001	112256-0074	CN	Granted	Utility Model	Micro Speaker	27-Mar-12	201201203442	31-Oct-12	201201203442	31-Oct-12
KEB2012003	KEB2012003A002	112256-0043	CN	Granted	Priority	The Speaker and the Call Phone	04-Jun-12	201201203493	17-Oct-12	201201203493	17-Jun-13
KEB2012004	KEB2012004A001	112257-0077	CN	Granted	Utility Model	Magnetic Circuit System and Moving-Coil Type Electroacoustic Transducer with the Magnetic Circuit System	06-Jul-12	20120120352486	30-Jan-13	20120120352486	30-Jan-13
KEB2012005	KEB2012005A001	112257-0078	CN	Granted	Utility Model	Magnetic Circuit System and its Moving-Coil Type Acoustic Transducer	01-Aug-12	20120120359734	26-Feb-13	20120120359734	26-Feb-13
KEB2012006	KEB2012006A001	112257-0078	CN	Granted	Utility Model	A Simple Method of Adjustment in Microspeaker Resonance Frequency	27-Sep-12	20120120362066	28-May-13	20120120362066	28-May-13
KEB2012007	KEB2012007A001	112256-0063	CN	Granted	Utility Model	Structure for Improved Symmetrical Magnet Assembly for Micro Speaker	05-Jan-14	20120120395383X	26-Nov-14	20120120395383X	26-Nov-14
KEB2012008	KEB2012008A001	112256-0063	CN	Published	Priority	Structure for Improved Symmetrical Magnet Assembly for Micro Speaker	05-Jan-14	201201203953835	08-Jan-16	201201203953835	08-Jan-16
KEB2012009	KEB2012009A001	112256-0060	US	Published	Secondary	Structure for Improved Symmetrical Magnet Assembly for Micro Speaker	03-Jun-15	14780105	10-Dec-15	US 2015 0356736 A1	10-Dec-15
KEB2012010	KEB2012010A001	112256-0040	CN	Granted	Utility Model	Vibration Membrane Assembly for Speaker, Speaker and Method for Producing the Assembly	13-Aug-15	2015006155534	13-Aug-15	2015006155534	28-Apr-15
KEB2012011	KEB2012011A001	112256-0038	CN	Application	Priority	Vibration Membrane Assembly for Speaker, Speaker and Method for Producing the Assembly	13-Aug-15	201500615997X	13-Aug-15	201500615997X	13-Aug-15
KEB2012012	KEB2012012A001	112256-0160	DE	Application	Secondary	Vibration Membrane Assembly for Speaker, Speaker and Method for Producing the Assembly	13-Aug-16	1020167003025	13-Aug-16	1020167003025	13-Aug-16
KEB2012013	KEB2012013A001	112256-0163	US	Application	Secondary	Vibration Membrane Assembly for Speaker, Speaker and Method for Producing the Assembly	13-Aug-16	149941934	13-Aug-16	149941934	13-Aug-16
KEB2012014	KEB2012014A001	112256-0039	CN	Granted	Utility Model	Vehicle for Loudspeaker and Method of Manufacturing Same	08-Dec-14	20140120760951	08-Dec-14	20140120760951	01-Apr-15
KEB2012015	KEB2012015A001	112256-0096	CN	Application	Priority	Vehicle for Loudspeaker and Method of Manufacturing Same	08-Dec-14	2014102401266	08-Dec-14	2014102401266	08-Dec-14
KEB2012016	KEB2012016A001	112256-0096	WO	Application	Secondary	Vehicle for Loudspeaker and Method of Manufacturing Same	25-Nov-15	092035038397	25-Nov-15	092035038397	25-Nov-15
KEB2012017	KEB2012017A001	112256-0036	CN	Application	Priority	Method of Mass Insert Molding for an Acoustic Device	13-Feb-15	2015007919966	13-Feb-15	2015007919966	13-Feb-15
KEB2012018	KEB2012018A001	112257-0080	CN	Granted	Utility Model	Diaphragm, Vibration Components and Micro-molding Tool-type Electroacoustic Transducer	18-Sep-14	201420331513X	18-Sep-14	201420331513X	18-Sep-14
KEB2012019	KEB2012019A001	112256-0085	CN	Application	Priority	Method of Forming Moving Coil for Loudspeaker Device	10-Sep-15	2015005735728	10-Sep-15	2015005735728	10-Sep-15
KEB2012020	KEB2012020A001	112256-0057	CN	Application	Utility Model	Method of Forming Moving Coil for Loudspeaker Device	10-Sep-15	2015003965555	10-Sep-15	2015003965555	10-Sep-15
O 097509	O 097509A001	112257-0046	US	Granted	Secondary	Electroacoustic Transducer Comprising Spring Contacts Formed with At Least One Bend	02-Mar-98	090393061	02-Mar-98	090393061	06-Jun-00
O 097510	O 097510A001	112257-0047	US	Granted	Designated PCT	Electroacoustic Transducer Comprising a Closing Member for Closing the Rear Volume of the Transducer	02-Mar-98	090393101	02-Mar-98	090393101	14-Mar-01
O 098504	O 098504A001	112257-0049	US	Granted	Designated PCT	An Electroacoustic Transducer and a Transducer for an Electroacoustic Transducer	16-Feb-98	090283234	16-Feb-98	090283234	13-Jun-00