

No.	Country	Status	Filing Date	Application Number	Issue Date	Patent Number	Expiring Date	Technology Area	Title of Invention
1	Japan	Granted	2005-12-16	2007-503587	2011-10-21	04846710	2025-12-16	Sound/Speaker	PIEZOELECTRIC SPEAKER AND METHOD FOR MANUFACTURING THE SAME
2	USA	Granted	2005-12-16	11/631629	2011-09-06	8014547	2029-06-10	Sound/Speaker	PIEZOELECTRIC SPEAKER AND METHOD FOR MANUFACTURING THE SAME
3	European Patent	Granted	2005-12-16	05816389.0	2016-10-26	1850633	2025-12-16	Sound/Speaker	PIEZOELECTRIC SPEAKER AND METHOD FOR MANUFACTURING THE SAME
4	China	Granted	2005-12-16	200580047370.X	2011-11-30	ZL200580047370.X	2025-12-16	Sound/Speaker	PIEZOELECTRIC SPEAKER AND METHOD FOR MANUFACTURING THE SAME
5	Germany	Granted	2005-12-16	05816389.0	2016-10-26	1850633	2025-12-16	Sound/Speaker	PIEZOELECTRIC SPEAKER AND METHOD FOR MANUFACTURING THE SAME
6	Japan	Granted	2011-04-14	2011-538749	2015-08-28	05796188	2031-04-14	Sound/Speaker	PIEZOELECTRIC SPEAKER
7	USA	Granted	2011-04-14	13/377332	2015-06-23	9066183	2032-04-08	Sound/Speaker	PIEZOELECTRIC SPEAKER
8	China	Granted	2011-04-14	201180002420.8	2016-03-23	ZL201180002420.8	2031-04-14	Sound/Speaker	PIEZOELECTRIC SPEAKER
9	USA	Granted	1997-11-26	08/979746	2001-03-27	6208237	Unknown	Sound/Speaker	ELECTRO-MECHANICAL AND ACOUSTIC TRANSDUCER FOR PORTABLE TERMINAL UNIT
10	China	Granted	1997-11-26	03159387.9	2006-01-25	ZL03159387.9	2017-11-26	Sound/Speaker	ELECTRO-MECHANICAL AND ACOUSTIC TRANSDUCER FOR PORTABLE TERMINAL UNIT
11	European Patent	Granted	1997-11-27	97120827.7	2006-06-07	0845920	2017-11-27	Sound/Speaker	ELECTRO-MECHANICAL AND ACOUSTIC TRANSDUCER FOR PORTABLE TERMINAL UNIT
12	USA	Granted	2003-06-23	10/600826	2005-07-26	6920957	Unknown	Sound/Speaker	LOUDSPEAKER DIAPHRAGM
13	China	Granted	2003-06-24	03145261.2	2007-01-24	ZL03145261.2	2023-06-24	Sound/Speaker	LOUDSPEAKER DIAPHRAGM
14	European Patent	Granted	2003-06-18	0313825.9	2016-01-06	1377115	2023-06-18	Sound/Speaker	LOUDSPEAKER DIAPHRAGM