

MEMS Microphone

Knowles, STMicroelectronics/OMRON, AAC Technologies/Infineon Technologies, InvenSense/Analog Devices

Market growth, challenged leader : patent battle can start

REPORT OUTLINE

- Technology and patent infringement risk analysis of MEMS Microphones S1157 (Knowles), MP45DT01 (STMicroelectronics), SR595 (AAC/Infineon) and ICS-43432 (InvenSense/Analog Devices)
- April 2015
- PDF & Excel file
- 170+ slides
- €5,990

KEY FEATURES OF THE REPORT

- Deep insight on technology data and manufacturing processes
- Comparative studies of product features (similarities & differences)
- Key patents related to the target product features per company
- Cross analysis of potential patent infringement risks
- Excel database with all patents analyzed in the report

OBJECTIVES OF THE REPORT

- Find the technical and manufacturing process similarities and differences of \$1157, MP45DT01, SR595 and ICS-43432 MEMS Microphones.
- Identify key patents held by Knowles, STMicroelectronics, OMRON, AAC Technologies, Infineon Technologies, Analog Devices and InvenSense, and related to the target product features.
- Find the link between patented technological solutions and marketed products.
- Discover the potential infringing parties and help to find evidence of use.
- Understand potential risks of patent infringement and identify the patents which require a more in depth legal assessment.

RELATED REPORTS

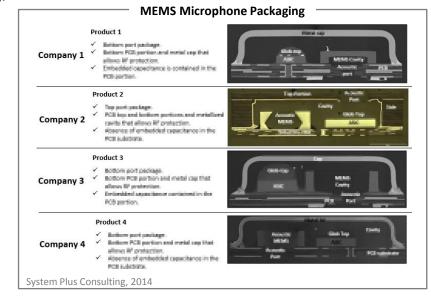
- 9-Axis MEMS IMU Patent Infringement Risks Analysis 2014.
- MEMS Microphone: Market, Applications and Business Trends 2014.
- InvenSense ICS-43432 Digital MEMS Microphone.
- iPhone 5S MEMS Microphones Knowles & AAC Technologies.

NOW IT'S TIME FOR PATENT BATTLE IN MEMS MICROPHONE BUSINESS

The **MEMS Microphone** will remain one of the fastest growing MEMS components due to existing and new opportunities. According to Yole Développement, the market will grow from \$785M in 2013 to \$1.65B by 2019. Shipments are expected to grow from 2.4B in 2013 to 6.6B units in 2019 which points to a market filled with opportunities for existing new players. **Knowles** is the dominant player with 61% market shares in 2013 and 58% in 2014. A decrease is again expected in the next years with new challengers entering the market: **STMicroelectronics, OMRON, AAC Technologies, Infineon Technologies and InvenSense(/ Analog Devices)**.

The global market share of these 6 players account for more than 80% of MEMS Microphone market in 2014. These players are all developing innovative technical and manufacturing solutions and, in parallel of course, the right patents to protect their inventions.

In a patent infringement action, the potential sales volume plays a major role for assessing the damage award. Thereby, this study is naturally focused on the last **MEMS Microphone components** supplied by these market leaders and challengers: **Knowles (S1157, iPhone** 5S/6), ST/OMRON (MP45DT01), AAC/Infineon (SR595, iPhone 5S/6), InvenSense/ADI (ICS-43432).



This raises interesting questions: What are the similarities and the differences in term of technical and manufacturing choices at the devices level? What is the related patent situation? Knowmade (specialized in patent analysis) and System Plus Consulting (specialized in reverse engineering and reverse costing) are joining their unique added value in order to combined technology and manufacturing analysis with patent claims understanding to highlight the risks of patent infringement between **Knowles, STMicroelectronics, OMRON, AAC Technologies, Infineon Technologies, Analog Devices** and **InvenSense** in the field of **MEMS Microphone**. As the MEMS Microphone market is growing very fast, it is the right time now to understand what could happen between these companies and how to differentiate patents and claims compared to the other players.

This report provides an overview of technology data and manufacturing process of **S1157**, **MP45DT01**, **SR595 and ICS-43432** MEMS Microphone components.

A comparative study of the technology and manufacturing process of these **MEMS Microphone components** has been performed in order to highlight the technical similarities and differences of the product features.

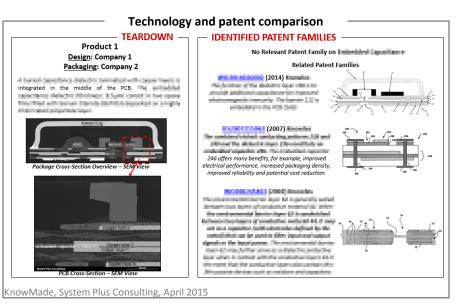
A LINK BETWEEN PRODUCT AND PATENT

A set of product features, mainly related to the MEMS Microphone die, has been selected regarding their interest in terms of patent study:

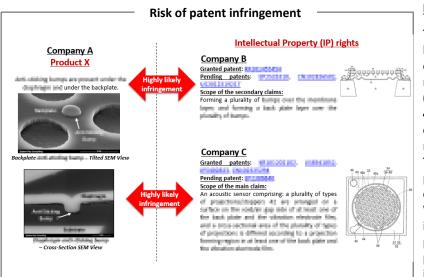
- Process: Diaphragm Structure, Anti-Sticking Bumps.
- Design: Acoustic Hole Shape, Transducer Number & Shape, Stress Relief.
- Packaging: Port Structure, Metal/PCB Housing, Embedded Capacitance, RF Protection.

Key patents held by Knowles, STMicroelectronics, OMRON, AAC Technologies, Infineon Technologies, Analog Devices and InvenSense related to these technology features have been identified.

For each product feature, the links between the patented technologies and the target product have been established.



Take the benefits of KnowMade and System Plus Consulting combined added value for highlighting potential risks of patent infringement.



HIGHLIGHT PATENT INFRINGEMENT RISK

The potential infringing parties of the target product have been identified. The contents of patents have been compared with actual technological solutions used in the marketed target products **Knowles (S1157), ST/OMRON (MP45DT01), AAC/Infineon (SR595), InvenSense/ADI (ICS-43432),** in order to highlight, for each MEMS Microphone component, the potential risks of patent infringement and related patents requiring more in-depth legal assessments. This report provides discussions on the potential risks of patent infringement by comparing relevant patent claim elements to the target product features.

We have identified several potential risks of patent infringements in some technology features from target products **S1157**, **MP45DT01**, **SR595** and **ICS-43432**. Key patents requiring more in-depth legal assessment have been identified.

AN USEFUL PATENT DATABASE

KnowMade, System Plus Consulting, April 2015

The report also includes an **Excel database** with all patents analyzed in the report (240+ patent families composed of 650+ patents)

This database allows multi-criteria searches and includes :

- Patent publication number
- Hyperlinks to the original documents
- Priority date
- Title
- Abstract
- Applicants
- Legal status for each patent

nPat base) 🖵	Publication Numbers	Date 👻	Kind +	Stage History	PDF •			Register •	BIB •	Title 👻	Abstract	Assignee	(YYY-MM-DD)	N
2	CN104254046	2014-12-31	Α	(A) Published	Open	Open	Open	Open	Open	Has in the	A MEMS	INFINEON TECHNOLOGIES	2014-06-24	CN201
12	KR201500025	2015-01-07	Α	(A) Published	Open	Open	Open	Open	Open	Mems	A MEMS	INFINEON TECHNOLOGIES	2014-06-27	KR201
12	US201500016	2015-01-01	A1	(A1)	Open	Open	Open	Open	Open	MEMS	A MEMS	INFINEON TECHNOLOGIES	2013-06-28	US13/
2	DE102014212	2015-01-15	A1	(A1) Doc. laid	Open	Open	Open	Open	Open	MEMS	A MEMS	INFINEON TECHNOLOGIES	2014-06-26	DE102
83	CN104254045	2014-12-31	Α	(A) Published	Open	Open	Open	Open	Open	Pre-pattern	A microphone	INFINEON TECHNOLOGIES	2014-06-23	CN201
3	DE102014108	2014-12-31	A1	(A1) Doc. laid	<u>Open</u>	<u>Open</u>	<u>Open</u>	<u>Open</u>	<u>Open</u>	Gathering	A microphone	INFINEON TECHNOLOGIES	2014-06-26	DE102
3	US201500016	2015-01-01	A1	(A1)	Open	Open	Open	Open	Open	Pre-mold for a	A microphone	INFINEON TECHNOLOGIES	2013-06-26	US13/9
9	CN104254047	2014-12-31	Α	(A) Published	Open	Open	Open	Open	Open	Has great back	An electronic	INFINEON TECHNOLOGIES	2014-06-25	CN201
9	DE102014108	2014-12-31	A1	(A1) Doc. laid	Open	Open	Open	Open	Open	Electronic	An electronic	INFINEON TECHNOLOGIES	2014-06-26	DE102
9	US201500036	2015-01-01	A1	(A1)	Open	Open	Open	Open	Open	Electronic	An electronic	INFINEON TECHNOLOGIES	2013-06-26	US13/9
2	CN204046818	2014-12-24	U	(U)	Open	Open	<u>Open</u>	<u>Open</u>	Open	Electric	Questel	AAC ACOUSTIC	2014-07-28	CN201
2	CN104244154	2014-12-24	Α	(A) Published	Open	<u>Open</u>	<u>Open</u>	Open	Open	The opening	An acoustic	KNOWLES ELECTRONICS	2014-06-17	CN201
2	US201403678	2014-12-18	A1	(A1)	Open	Open	Open	Open	Open	Open Cavity	An acoustic	KNOWLES ELECTRONICS	2014-06-05	US14/:
37	WO20142047	2014-12-24	A1	(A1)	Open	Open	Open	Open	Open	Varistor in	A micro electro	KNOWLES ELECTRONICS	2014-06-11	wous
37	US201403678	2014-12-18	A1	(A1)	Open	Open	<u>Open</u>	Open	Open	Viristor In Base	A micro electro	KNOWLES ELECTRONICS	2014-06-04	US14/3
9	US201403537	2014-12-04	A1	(A1)	Open	Open	<u>Open</u>	Open	Open	Detection	А	ST MICROELECTRONICS	2014-05-27	US14/3
9	IT2013TO0441	2014-12-01	A1	(A1)	Open	Open	Open	Open	Open	Struttura di	A	ST MICROELECTRONICS	2013-05-30	177020
7	US201403483	2014-11-27	A1	(A1)	Open	Open	<u>Open</u>	Open	Open	Vad detection	A microphone	KNOWLES ELECTRONICS	2014-05-20	US14/:
7	WO20141899	2014-11-27	A1	(A1)	Open	Open	Open	<u>Open</u>	<u>Open</u>	Vad detection	A microphone	KNOWLES ELECTRONICS	2014-05-20	WOUS
7	US201500437	2015-02-12	A1	(A1)	Open	Open	<u>Open</u>	<u>Open</u>	Open	Vad detection	A microphone	KNOWLES ELECTRONICS	2014-10-23	US14/5
9	IT2013TO0350	2014-10-31	A1	(A1)	Open	Open	<u>Open</u>	Open	Open	Assemblaggio	An assembly of	ST MICROELECTRONICS	2013-04-30	ITTO20
9	US201403196	2014-10-30	A1	(A1)	Open	Open	<u>Open</u>	Open	Open	Wafer level	An assembly of	ST MICROELECTRONICS	2014-04-29	US14/3
9	CN104140071	2014-11-12	Α	(A) Published	Open	Open	Open	Open	Open	Wafer level	An assembly of	ST MICROELECTRONICS	2014-04-28	CN201
9	CN104113810	2014-10-22	Δ.	(A) Published	Open	Open	Open	Open		MEMS	The invention	AACTECHNOLOGIES	2014-07-18	CN201

Patent database

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Acoustic Holes Shape						
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 Transducer, Number & Shape 						
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DOD

Acoustic Holes Shape

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ORDER FORM MEMS Microphone

Technology and Patent Infringement Risk Analysis

Knowles - STMicroelectronics - OMRON - AAC Technologies

- Infineon Technologies - InvenSense - Analog Devices

April 2015

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BIC or SWIFT code: CCBPFRPPNCE

IBAN: : FR76 1560 7000 6360 6214 5695 126

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b) any claim attributable to errors, omissions or other inaccuracies in the Product or interpretations thereof.

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4.8 The Seller does not make any warranties, express or implied, including, without limitation, those of saleability and fitness for a particular purpose, with respect to the Products. Although the Seller shall take reasonable steps to screen Products for infection of viruses, worms, Trojan horses or other codes containing contaminating or destructive properties before making the Products available, the Seller cannot guarantee that any Product will be free from infection.

5. Force majeure

The Seller shall not be liable for any delay in performance directly or indirectly caused by or resulting from acts of nature, fire, flood, accident, riot, war, government intervention, embargoes, strikes, labor difficulties, equipment failure, late deliveries by suppliers or other difficulties which are beyond the control, and not the fault of the Seller.

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- Recordings and re-transmittals over any network (including any local area network);

- use in any timesharing, service bureau, bulletin board or similar arrangement or public display;
- Posting any Product to any other online service (including bulletin boards or the Internet);

- Licensing, leasing, selling, offering for sale or assigning the Product.

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8. Miscellaneous

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