MEMS Microphone – Technology and Patent Infringement Risk Analysis - Reverse Costing Analysis

Description: 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 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.

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