9-Axis MEMS IMU Technology and Patent Infringement Risk Analysis: STMicroelectronics (LSM9DS0), Bosch Sensortec (BMX055), InvenSense (MPU-9250)

Description:

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 LSM9DS0, BMX055 and MPU-9250 9-axis IMU components.
- Identify key patents held by STMicroelectronics, Bosch Sensortec and InvenSense, and related to the target product features.
- Find the link between patented technological solutions and marketed products.
- Identify the potential infringing parties and help to find evidence of use.
- Identify potential risks of patent infringement and identify the patents which require a more in depth legal assessment.

The report also includes an excel database with all patents analyzed in the report (60+ patent families composed of 200+ 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

Contents:

Introduction
- Scope of The Study
- Key Features of the Report
- Objective of the Report
- Terminology for Patent Analysis
- Methodology

Product Presentation

Executive Summary

Teardown: Technology Comparison
- MEMS Gyro & Accelerometer Structure
- MEMS Gyro & Accelerometer Sensing Area
- MEMS Gyro & Accelerometer Cap Sealing
- MEMS Gyro & Accelerometer Micromachining Process

- Matrix Product Features/Patent Portfolio
- Al-Ge Eutectic Bonding Process
- Patent Identification
  - Bosch BMX055
  - InvenSense MPU-9250
  - ST LSM9DS0

- Patent Application Timeline
- Patent Infringement Risk
  - Bosch BMX055 vs InvenSense patents
  - InvenSense MPU-9250 vs Bosch patents

- IP Competitors

- Accelero/Gyro on a Single Chip

- Patent Identification
  - InvenSense MPU-9250
  - ST LSM9DS0
  - Bosch BMX055

- Patent Application Timeline
- Patent Infringement Risk
  - ST LSM9DS0 vs Bosch & InvenSense patents
  - InvenSense MPU-9250 vs Bosch patents

- IP Competitors

- 3-Axis Gyroscope Single Structure

- Patent Identification
  - InvenSense MPU-9250
  - ST LSM9DS0
  - Bosch BMX055

- Patent Application Timeline
- Patent Infringement Risk
  - ST LSM9DS0 vs InvenSense patents
  - InvenSense MPU-9250 vs ST patents

- Main IP Competitors

- Hybrid MEMS

- Patent Identification
  - InvenSense MPU-9250
  - Bosch BMX055
  - ST LSM9DS0

- Patent Application Timeline
- Patent Infringement Risk
  - InvenSense MPU-9250 vs Bosch patents

- Main IP Competitors

- SiN as Protective Layer (Micromachined layers)

- Patent Identification
  - ST LSM9DS0
  - Bosch BMX055
- InvenSense MPU-9250
- Patent Application Timeline
- Patent Infringement Risk
- ST LSM9DS0 vs Bosch patents

Conclusion
- Conclusions
- Summary of Patent Infringement Risks

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