



REPORT OUTLINE

- Technology and patent infringement risk analysis of 9-Axis MEMS IMU LSM9DS0 (STMicroelectronics), BMX055 (Bosch Sensortec) and MPU-9250 (InvenSense)
- September 2014
- PDF & Excel file
- 80+ 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 LSM9DSO, 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.

RELATED REPORTS

- InvenSense MPU-9250 9-Axis IMU
- STMicroelectronics LSM9DS0 9-Axis MEMS IMU
- Bosch BMX055 9-Axis MEMS IMU
- MEMS Gyroscope Patent Investigation

9-Axis MEMS IMU

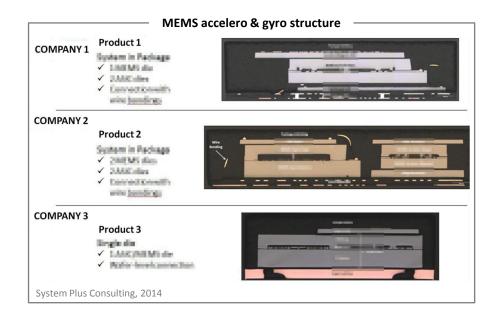
STMicroelectronics (LSM9DS0),

Bosch Sensortec (BMX055), InvenSense (MPU-9250)

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

Motion sensing combo sensor is a very hot topic, both in terms of market potential and competition among the players. The growth of the applications of 6 and 9 degrees of freedom (DoF) devices is both pushing the leaders (STMicroelectronics, Bosch Sensortec and InvenSense) and their challengers (AKM, Kionix, mCube, Freescale, Alps, Kionix...) to develop innovative technical and manufacturing solutions, and, in parallel of course, to have the right patents to protect their inventions. What are the similarities and the differences in term of technical and manufacturing choices at the devices level? What is the related patent situation?

For the first time, 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 infringement STMicroelectronics, Bosch Sensortec and InvenSense in the field of 9 axis MEMS inertial measurement units (IMU). As the 9 axis IMUs are just starting to be adopted by the market, it is the right time now to understand what could happen between these 3 companies and how to differentiate patents and claims compared to the leaders.



2012 was seen by many as a turnkey year for consumer combo sensors (6 and 9 axis sensors). Since then, many developments have occurred and the market acceptance of combo solutions has been extremely quick. According to Yole Développement, the combo sensor market is estimated to be \$446M in 2013, growing to \$1.97B in 2018. This represents 21% of the global inertial consumer market in 2013, and will grow to an impressive 66% by 2018. In this playground, STMicroelectronics (ST), Bosch Sensortec (Bosch) and InvenSense are the 3

market leaders in the inertial consumer sensors with more than 50% of market share.

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 **newest 9-axis inertial MEMS components** supplied by these market leaders: **LSM9DSO** (STMicroelectronics), **BMX055** (Bosch Sensortec) and **MPU-9250** (InvenSense). Moreover, there exists a history of patent disputes between these 3 leading players.

This report provides an overview of technology data and manufacturing process of **LSM9DSO**, **BMX055** and **MPU-9250** 9-axis IMU components. A comparative study of the technology and manufacturing process of **9-axis IMU components** supplied by

STMicroelectronics, **Bosch Sensortec** and **InvenSense** has been performed in order to highlight the technical similarities and differences of the product features.

A LINK BETWEEN PRODUCT AND PATENT

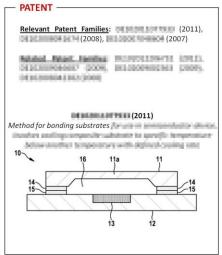
A set of product features, mainly related to the accelero/gyro die, has been selected regarding their interest in terms of patent study:

- Al-Ge eutectic bonding process (Cap/Sensor, Sensor/IC).
- Accelero/Gyro single chip and the required multiple sealed cavities.
- 3-axis gyroscope single structure (sensing area).
- Hybrid MEMS with a vertically integrated electronics and a wafer-scale hermetic packaging.
- SiN as protective layer in sensor area (micromachined layers).

Key patents held by **STMicroelectronics**, **Bosch Sensortec** 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.

TEARDOWN PATENT Product X MEMS sensor and cap are sealed together with Method for bonding substrate Mems Cross-Section Overview MEMS Sealing Cross-Section – SEM View MEMS Sensing Area – SEM View



KnowMade, System Plus Consulting, September 2014

Risk of patent infringement Company 1 Company 2 Intellectual Property (IP) rights Product 1 infringement LIMITATE STATE Granted patents: US , US , EP , EP , HUSBON, HOME PARTIES Scope of the claims of US A method for manufacturing a micromechanical device haling a radinishin maler hasing has at least one first savity and one at least one second outry, the rankles being hernetically argument from each other. The first savily having a different internal atmospheric prevauce therethe second-codity. Cross-Section Overview - SEM View KnowMade, System Plus Consulting, September 2014

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 **LSM9DSO** (STMicroelectronics), **BMX055** (Bosch Sensortec) and **MPU-9250** (InvenSense), in order to highlight, for each 9-axis inertial MEMS 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 **LSM9DSO**, **BMX055** and **MPU-9250**. Key patents requiring more in-depth legal assessment have been identified.

AN USEFUL PATENT DATABASE

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

mber Database)	Publication Number	Publication Date	Kind	Publication Stage History	PDF	Mosaic	Biblio	Register	BIB	Title	Assignee	Abstract	Claims	Inventors	Appl
	DE102012219511	2014-04-30	A1	(A1) Doc. laid open (First	Open	Open	Open	Open	Open	Micromechanical	ROBERT BOSCH	Micromechani	(Claim	SCHEBEN	20
	CN103776437	2014-05-07	Α	(A) Published application	Open	Open	Open	Open	Open	PC weapon	ROBERT BOSCH	Micromechani	(Claims		20
	US20140116134	2014-05-01	A1	(A1) Application published	Open	Open	Open	Open	Open	Micromechanical	ROBERT BOSCH	Micromechani	What is	CLASSEN	2
	DE102012219605	2014-04-30	A1	(A1) Doc. laid open (First	Open	Open	Open	Open	Open	Micromechanical	ROBERT BOSCH	A	(Claim	GONSKA	2
	CN103787260	2014-05-14	A	(A) Published application	Open	Open	Open	Open	Open	微机械构件	ROBERT BOSCH	A	(Claims		2
	US20140117472	2014-05-01	A1	(A1) Application published	Open	Open	Open	Open	Open	Micromechanical	ROBERT BOSCH	A	What is	GONSKA	2
	US20140110800	2014-04-24	A1	(A1) Application published	Open	Open	Open	Open	Open	Method for	ROBERT BOSCH	A	What is	CLASSEN	2
	DE102012219465	2014-04-24	A1	(A1) Doc. laid open (First	Open	Open	Open	Open	Open	Procedure for	ROBERT BOSCH	A	(Claim	CLASSEN	2
	CN103771333	2014-05-07	A	(A) Published application	Open	Open	Open	Open	Open	For making cover	ROBERT BOSCH	A	(Claims		1 2
	US20130233048	2013-09-12	A1	(A1) Application published	Open	Open	Open	Open	Open	Gyroscope self	INVENSENSE	A self-test	What we	ANAC OZAN	1 2
	W02009130554	2009-10-29	A2	(A2) International	Open	Open	Open	Open	Open	X-y axis dual-mass	INVENSENSE ([US])	An angular	CLAIMS	SEEGER	2
	CN101939653	2011-01-05	Α	(A) Published application	Open	Open	Open	Open	Open	X-y axis dual-mass	INVENSENSE	An angular	(Claims	JOSEPH	1 2
	EP2238460	2010-10-13	A2	(A2) Application published	Open	Open	Open	Open	Open	X-y axis dual-mass	INVENSENSE ([US])		1. A sensor	SEEGER	
	JP2011525233	2011-09-15	A	(A) Published application	Open	Open	Open	Open	Open	The electronic	INVENSENSE	Questel		Seeger	1 2
	U\$20130334622	2013-12-19	A1	(A1) Application published	Open	Open	Open	Open	Open	Micromechanical	ROBERT BOSCH	A	What is	GONSKA	1 2
	DE102012209973	2013-12-19	A1	(A1) Doc. laid open (First	Open	Open	Open	Open	Open	Micromechanical	ROBERT BOSCH	A	(Claim	GONSKA	1 2
	DE102012208032	2013-11-14	A1	(A1) Doc. laid open (First	Open	Open	Open	Open	Open	Hybrid integrated	ROBERT BOSCH	Ahybrid	(Claim	CLASSEN	1 2
	CN103420324	2013-12-04	Α	(A) Published application	Open	Open	Open	Open	Open	Hybrid integrated	ROBERT BOSCH	The present	(Claims	CLASSEN	2
	TW201402449	2014-01-16	A	(A) Laid open application for	Open	Open	Open		Open	Hybrid	ROBERT BOSCH	Ahybrid		CLASSEN	
	U\$20130307096	2013-11-21	A1	(A1) Application published	Open	Open	Open	Open	Open	Hybrid intergrated	ROBERT BOSCH	Ahybrid	What is	CLASSEN	1 2
	US8564076	2013-10-22	81	(B1) Granted patent as first	Open	Open	Open	Open	Open	Internal electrical	INVENSENSE	A MEMS device	What is	HUANG	1 2
	US20140213007	2014-07-31	A1	(A1) Application published	Open	Open	Open	Open	Open	Internal electrical	INVENSENSE ([US])	A method of		HUANG	1 2
	CN103964366	2014-08-06	A	(A) Published application	Open	Open	Open	Open	Open	The internal	INVENSENSE	A MEMS device	(Claims		1 2
	EP2762441	2014-08-06	A2	(A2) Application published	Open	Open	Open	Open	Open	Internal electrical	INVENSENSE ([US])	A MEMS device	1. A MEMS	HUANG	2
	US20130277774	2013-10-24	A1	(A1) Application published	Open	Open	Open	Open	Open	Method for	ROBERT BOSCH	A simple and	What is	FREY JENS	
	DE102012206732	2013-10-24	A1	(A1) Doc. laid open (First	Open	Open	Open	Open	Open	Procedure for	ROBERT BOSCH	A simple and	(Claim	FREY JENS	1 2
	CN103420325	2013-12-04	A	(A) Published application	Open	Open	Open	Open	Open	Method for	ROBERT BOSCH	The present	(Claims	FREY JENS;	
	TW201348122	2013-12-01	A	(A) Laid open application for	Open	Open	Open	Open	Open	Method for	ROBERT BOSCH	A simple and		FREY JENS	1 2
	DESCRIPTION .	2013.03.13	81	(RS) Granted nutses as first	Com	Ocen	Onen	Deser	Conn	Waterstateshin	NUTUSENSE	In a matterd.	NO-street	3025001	

Patent database

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- MEMS gyro & accelero sensing area
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- MEMS gyro & accelero micromachining process

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- Conclusions
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AUTHORS



Dr Nicolas Baron is CEO and co-founder of Knowmade. He leading is Microelectonics and Nanotechnology scientific and patent analysis department. He holds a PhD in Physics from the University of Nice Sophia-Antipolis, plus a University Diploma in Intellectual Property Strategy and Innovation from the European Institute for Enterprise and Intellectual Property (IEEPI Strasbourg), France.



Romain Fraux is Project Manager for Reverse Costing analyses at System Plus Consulting. Since 2006, Romain is in charge of costing analyses of MEMS devices, Integrated Circuit and Advanced

Packaging. He has significant experience in the modeling of the manufacturing costs of electronics components. Romain has a BEng from Heriot-Watt University of Edinburgh, Scotland and a master's degree in Microelectronics from the University of Nantes, France.

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ABOUT SYSTEM PLUS CONSULTING (http://www.systemplus.fr)

Headquartered in Nantes, France, **System Plus Consulting** is specialized in technology and cost analysis of electronic components and systems in the fields of Integrated Circuits, Power Devices and Modules, MEMS & Sensors, LED, Image Sensors, Packaging including wafer level, Electronic Boards and Systems. The company offers custom reverse costing analyses, standard reverse costing reports and costing tools. These analyses are used by Purchasing Departments to measure their suppliers' cost structure, R&D Departments to confirm technological choices depending on their impact on costs, and Benchmarking/Marketing Departments to monitor the products on the market.



ORDER FORM

9-Axis MEMS IMU (STMicroelectronics, Bosch Sensortec, InvenSense) Technology and Patent Infringement Risk Analysis

September 2014

SHIP TO	PAYMENT METHODS
Name (Mr/Ms/Dr/Pr):	Check
Job Title:	To pay your invoice using a check, please mail your check to the following address: KnowMade S.A.R.L.
Company:	2405 route des Dolines, BP 65 06902 Valbonne Sophia Antipolis
Address:	FRANCE
City:	Bank Transfer To pay your invoice using a bank money wire transfer please
State:	contact your bank to complete this process. Here is the information that you will need to submit the payment:
Postcode/Zip:	Payee: KnowMade S.A.R.L. Bank: Banque populaire St Laurent du Var CAP 3000 - Quartie
Country:	du lac- 06700 St Laurent du Var IBAN: FR76 1560 7000 6360 6214 5695 126
VAT ID Number for EU members:	BIC/SWIFT: CCBPFRPPNCE
Tel:	Paypal In order to pay your invoice via PAYPAL, you must first register at
Email:	www.paypal.com. Then you can send money to the KnowMade S.A.R.L. by entering our E-mail address contact@knowmade.fr as
Date:	the recipient and entering the invoice amount.
PRODUCT ORDER	RETURN ORDER BY
	E-mail: contact@knowmade.fr
Eundle with Knowmade and/or System Plus	Mail: KnowMade S.A.R.L. 2405 route des Dolines, CS 10065, 06902 Sophia Antipolis, FRANCE
Consulting other related reports (contact us)	CONTACT
For price in dollars, please use the day's exchange rate. For French customer, add 20% for VAT. All reports are delivered electronically in pdf format	E-mail: contact@knowmade.fr
	I hereby accept KnowMade's Terms and Conditions of Sale Signature:



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"Buyer": Any business user (i.e. any person acting in the course of its business activities, for its business needs) entering into the following general conditions to the exclusion of consumers acting in their personal interests.

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"Intellectual Property Rights" ("IPR") means any rights held by the Seller in its Products, including any patents, trademarks, registered models, designs, copyrights, inventions, commercial secrets and know-how, technical information, company or trading names and any other intellectual property rights or similar in any part of the world, notwithstanding the fact that they have been registered or not and including any pending registration of one of the above mentioned rights.

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1. Scope

- 1.1 The Contracting Parties undertake to observe the following general conditions when agreed by the Buyer and the Seller. ANY ADDITIONAL, DIFFERENT, OR CONFLICTING TERMS AND CONDITIONS IN ANY OTHER DOCUMENTS ISSUED BY THE BUYER AT ANY TIME ARE HEREBY OBJECTED TO BY THE SELLER, SHALL BE WHOLLY INAPPLICABLE TO ANY SALE MADE HEREUNDER AND SHALL NOT BE BINDING IN ANY WAY ON THE SELLER.
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- 1.3 Orders are deemed to be accepted only upon written acceptance and confirmation by the Seller, within [7 days] from the date of order, to be sent either by email or to the Buyer's address. In the absence of any confirmation in writing, orders shall be deemed to have been accepted.

2. Mailing of the Products

- 2.1 Products are sent by email to the Buyer:
- within [1] month from the order for Products already released; or
- within a reasonable time for Products ordered prior to their effective release. In this case, the Seller shall use its best endeavours to inform the Buyer of an indicative release date and the evolution of the work in progress.
- 2.2 Some weeks prior to the release date the Seller can propose a pre-release discount to the Buyer.

The Seller shall by no means be responsible for any delay in respect of article 2.2 above, and including in cases where a new event or access to new contradictory information would require for the analyst extra time to compute or compare the data in order to enable the Seller to deliver a high quality Products.

- 2.3 The mailing of the Product will occur only upon payment by the Buyer, in accordance with the conditions contained in article 3.
- 2.4 The mailing is operated through electronic means either by email via the sales department. If the Product's electronic delivery format is defective, the Seller undertakes to replace it at no charge to the Buyer provided that it is informed of the defective formatting within 90 days from the date of the original download or receipt of the Product.
- 2.5 The person receiving the Products on behalf of the Buyer shall immediately verify the quality of the Products and their conformity to the order. Any claim for apparent defects or for non-conformity shall be sent in writing to the Seller within 8 days of receipt of the Products. For this purpose, the Buyer agrees to produce sufficient evidence of such defects.
- 2.6 No return of Products shall be accepted without prior information to the Seller, even in case of delayed delivery. Any Product returned to the Seller without providing prior information to the Seller as required under article 2.5 shall remain at the Buyer's risk.

3. Price, invoicing and payment

3.1 Prices are given in the orders corresponding to each Product sold on a unit basis or corresponding to annual subscriptions. They are expressed to be inclusive of all taxes. The prices may be reevaluated from time to time. The effective price is deemed to be the one applicable at the time of the order

3.2 Payments due by the Buyer shall be sent by cheque payable to Knowmade, PayPal or by electronic transfer to the following account:

Banque populaire St Laurent du Var CAP 3000 - Quartier du lac- 06700 St Laurent du Var

BIC or SWIFT code: CCBPFRPPNCE

IBAN: : FR76 1560 7000 6360 6214 5695 126

To ensure the payments, the Seller reserves the right to request down payments from the Buyer. In this case, the need of down payments will be mentioned on the order.

3.3 Payment is due by the Buyer to the Seller within 30 days from invoice date, except in the case of a particular written agreement. If the Buyer fails to pay within this time and fails to contact the Seller, the latter shall be entitled to invoice interest in arrears based on the annual rate Refi of the «BCE» + 7 points, in accordance with article L. 441-6 of the French Commercial Code. Our publications (report, database, tool...) are delivered only after reception of the payment.

3.4 In the event of termination of the contract, or of misconduct, during the contract, the Seller will have the right to invoice at the stage in progress, and to take legal action for damages.

4. Liabilities

4.1 The Buyer or any other individual or legal person acting on its behalf, being a business user buying the Products for its business activities, shall be solely responsible for choosing the Products and for the use and interpretations he makes of the documents it purchases, of the results he obtains, and of the advice and acts it deduces thereof.



- 4.2 The Seller shall only be liable for (i) direct and (ii) foreseeable pecuniary loss, caused by the Products or arising from a material breach of this agreement
- 4.3 In no event shall the Seller be liable for:
- a) damages of any kind, including without limitation, incidental or consequential damages (including, but not limited to, damages for loss of profits, business interruption and loss of programs or information) arising out of the use of or inability to use the Seller's website or the Products, or any information provided on the website, or in the Products;
- b) any claim attributable to errors, omissions or other inaccuracies in the Product or interpretations thereof.
- 4.4 All the information contained in the Products has been obtained from sources believed to be reliable. The Seller does not warrant the accuracy, completeness adequacy or reliability of such information, which cannot be guaranteed to be free from errors.
- 4.5 All the Products that the Seller sells may, upon prior notice to the Buyer from time to time be modified by or substituted with similar Products meeting the needs of the Buyer. This modification shall not lead to the liability of the Seller, provided that the Seller ensures the substituted Product is similar to the Product initially ordered.
- 4.6 In the case where, after inspection, it is acknowledged that the Products contain defects, the Seller undertakes to replace the defective products as far as the supplies allow and without indemnities or compensation of any kind for labor costs, delays, loss caused or any other reason. The replacement is guaranteed for a maximum of two months starting from the delivery date. Any replacement is excluded for any event as set out in article 5 below.
- 4.7 The deadlines that the Seller is asked to state for the mailing of the Products are given for information only and are not guaranteed. If such deadlines are not met, it shall not lead to any damages or cancellation of the orders, except for non-acceptable delays exceeding [4] months from the stated deadline, without information from the Seller. In such case only, the Buyer shall be entitled to ask for a reimbursement of its first down payment to the exclusion of any further damages.
- 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.

6. Protection of the Seller's IPR

- 6.1 All the IPR attached to the Products are and remain the property of the Seller and are protected under French and international copyright law and conventions.
- 6.2 The Buyer agreed not to disclose, copy, reproduce, redistribute, resell or publish the Product, or any part of it to any other party other than employees of its company. The Buyer shall have the right to use the Products solely for its own internal information purposes. In particular, the Buyer shall therefore not use the Product for purposes such as:
- Information storage and retrieval systems;
- 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.
- 6.3 The Buyer shall be solely responsible towards the Seller of all infringements of this obligation, whether this infringement comes from its employees or any person to whom the Buyer has sent the Products and shall personally take care of any related proceedings, and the Buyer shall bear related financial consequences in their entirety.
- 6.4 The Buyer shall define within its company point of contact for the needs of the contract. This person will be the recipient of each new report in PDF format. This person shall also be responsible for respect of the copyrights and will guaranty that the Products are not disseminated out of the company.

7. Termination

- 7.1 If the Buyer cancels the order in whole or in part or postpones the date of mailing, the Buyer shall indemnify the Seller for the entire costs that have been incurred as at the date of notification by the Buyer of such delay or cancellation. This may also apply for any other direct or indirect consequential loss that may be borne by the Seller, following this decision.
- 7.2 In the event of breach by one Party under these conditions or the order, the non-breaching Party may send a notification to the other by recorded delivery letter upon which, after a period of thirty (30) days without solving the problem, the non-breaching Party shall be entitled to terminate all the pending orders, without being liable for any compensation.

8. Miscellaneous

All the provisions of these Terms and Conditions are for the benefit of the Seller itself, but also for its licensors, employees and agents. Each of them is entitled to assert and enforce those provisions against the Buyer.

Any notices under these Terms and Conditions shall be given in writing. They shall be effective upon receipt by the other Party.

The Seller may, from time to time, update these Terms and Conditions and the Buyer, is deemed to have accepted the latest version of these terms and conditions, provided they have been communicated to him in due time.

9. Governing law and jurisdiction

- 9.1 Any dispute arising out or linked to these Terms and Conditions or to any contract (orders) entered into in application of these Terms and Conditions shall be settled by the French Commercial Courts of Grasse, which shall have exclusive jurisdiction upon such issues.
- 9.2 French law shall govern the relation between the Buyer and the Seller, in accordance with these Terms and Conditions.