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Capacitive Fingerprint Sensors

TMDR92 (AuthenTec-Apple), FPC1020 (Fingerprint Cards), VAL004A8-T (Synaptics) and B1202A0-01 (Synaptics)

Who risk to be deprived of its imprint in future infringement lawsuits?

REPORT OUTLINE

- Technology and patent infringement risk analysis of fingerprint sensors TMDR92 (AuthenTec), FPC1020 (Fingerprint Cards), VAL004A8-T (Synaptics) and B1202A0-01 (Synaptics)
- November 2015
- PDF (110+ slides) & Excel file
- €5,990 (corporate license)

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

OBJECTIVE OF THE REPORT

- Find the technical and manufacturing process similarities and differences of TMDR92, FPC1020, VAL004A8-T and B1202A0-01 fingerprint sensors
- Identify key patents held by AuthenTec-Apple, Fingerprint Cards, Synaptics-Validity, 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

Patent Landscape:

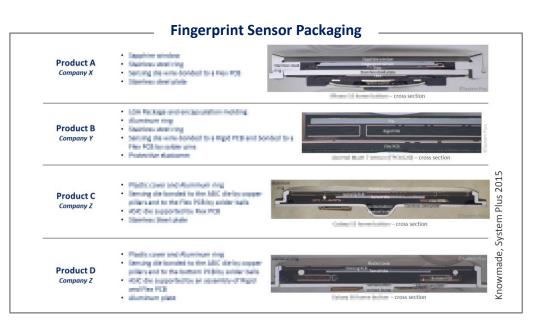
- <u>Capacitive Fingerprint Sensors 2015</u> Tear down:
- Apple iPhone 5S Fingerprint Sensor
- <u>Samsung Galaxy S6 Fingerprint</u> <u>Sensor</u>
- <u>Huawei Ascend Mate 7 Fingerprint</u> Sensor

WILL APPLE AND SAMSUNG CONFRONT EACH OTHER ON THE FINGERPRINT SENSOR FIELD?

Fingerprint sensors using capacitive technology represent a fast growing market, especially in smartphones. The fingerprint sensor vendor Idex forecasts an increase of 360% of the number of fingerprint sensor units in mobile devices and of the fingerprint sensor market between 2014 and 2017 (source: N+1 Singer, Idex, 2014). A new generation of capacitive fingerprint sensors has emerged in the last few years and have been incorporated in the last generations of smartphones of companies like **Apple**, **Samsung** or **Huawei**. The market growth for fingerprint sensors is also supported by a new phase of IP development, revealed by an increase in the number of new patents related to capacitive fingerprint sensor published since 2012 (source: Knowmade, 'Capacitive Fingerprint Sensors Patent Landscape', 2015).

Fingerprint sensors are greatly appreciated by smartphone's users. Indeed, such biometric authentication mode is easier and quicker than a password to access the device. It also allows to give selected access to applications for each user of the device. Thus the fingerprint sensor needs to be trustworthy.

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 fingerprint sensor components designed by 3 leaders of fingerprint sensing solutions and integrated in the devices of 3 major smartphone vendors: TMDR92 (AuthenTec, Apple iPhone 5S), FPC1020 (Fingerprint Cards, Huawei Ascend Mate 7), VAL004A8-T (Synaptics-Validity, Samsung Galaxy S5) and B1202A0-01 (Synaptics-Validity, Samsung Galaxy S6).



Those 4 fingerprint sensors represent different technological choices but sharing common characteristics. Thus, combining the data obtained by the tear down of each sensor performed by System Plus Consulting with the IP analysis of Knowmade, this report highlights the IP behind each fingerprint sensor and analyzes the risk of patent infringement between **AuthenTec-Apple**, **Fingerprint Cards** and **Synaptics-Validity**. It appears that main risks concern the packaging and the integration of the fingerprint sensor in the device.

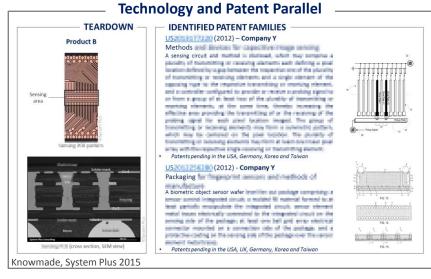
This report provides an overview of technology data and manufacturing process of **TMDR92**, **FPC1020**, **VAL004A8-T** and **B1202A0-01** fingerprint sensor components. A comparative study of the technology and manufacturing process of these fingerprint sensor components has been performed in order to highlight the technical similarities and differences of the product features.

A LINK BETWEEN PRODUCTS AND PATENTS

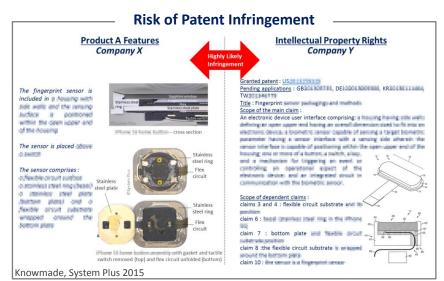
System Plus Consulting performed a tear down of 4 devices including a fingerprint sensor: Apple iPhone 5S (TMDR92, AuthenTec-Apple), Huawei Ascend Mate 7 (FPC1020, Fingerprint Cards), Samsung Galaxy S5 (VAL004A8-T, Synaptics-Validity) and Samsung Galaxy S6 (B1202A0-01, Synaptics-Validity).

Knowmade then compared the features of each fingerprint sensor revealed by the teardown to the IP portfolio of the technology owner. The selected features are mainly related to the fingerprint sensor die, its packaging and the assembly of the fingerprint sensor in the mobile phone.

Key patents held by **AuthenTec-Apple, Fingerprint Cards**, and **Synaptics-Validity** 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.



ASSESSMENT OF 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 TMDR92 (AuthenTec-Apple), FPC1020 (Fingerprint Cards), VAL004A8-T (Synaptics-Validity) and B1202A0-01 (Synaptics-Validity), in order to highlight, for each fingerprint sensor 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 TMDR92, FPC1020, VAL004A8-T and B1202A0-01. 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 this study (26 patent families composed of 100+ 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

d A	В	C	D	E	F	G	H	
FAMILY NUMBER	PATENT NUMBER	PATENT ASSIGNEE	PRIORITY DATE	TITLE	PDF	ABSTRACT	LEGAL STATUS	ACTUAL OR EXPECTED EXPIRATION DATE
6837 HIEM.	AU2	METRO ENGINEERING I	2000-12-05	Swipe II	Open	A fingerprint sensing system	LEGAL DETAILS FOR AU	2007-06-18
6837	W02 X	VALIDITY	2000-12-05	Swipe	Open	A fingerprint sensing system	LEGAL DETAILS FOR WO	2021-12-05
6837 HIMM	EP#######	VALIDITY SENSORS	2000-12-05	Swipel	Open	A fingerprint sensing system	LEGAL DETAILS FOR EP:	2021-12-05
6837	ATLE H.	VALIDITY SENSORS	2000-12-05	System and miles and	Open	A fingerprint sensing system	LEGAL DETAILS FOR AT	2006-04-15
6837	HKIMBANA	VALIDITY SENSORS	2000-12-05	Swipel	Open	A fingerprint sensing system	LEGAL DETAILS FOR HK	2021-12-05
6837	DE601 =0.4	VALIDITY SENSORS	2000-12-05	System and militaria and	Open	A fingerprint sensing system	LEGAL DETAILS FOR DE	2021-12-05
6837	US20	SYNAPTICS	2000-12-05	Swipel	Open	A fingerprint sensing system	LEGAL DETAILS FOR US	2022-10-11
6837	U\$20 I	VALIDLTY;	2000-12-05	Swipe	Open	A fingerprint sensing system	LEGAL DETAILS FOR US	2021-12-05
6837	HK	VALIDITY SENSORS	2000-12-05	Capacitics will all the comments of the capacitics of the capacitic of the capacitics of the capacitic of the capacitics of the capacitic of the capacitics	Open	A fingerprint sensing system	LEGAL DETAILS FOR HK	2021-12-05
6837	DE60 II John	VALIDITY SENSORS	2000-12-05	Kapaz	Open	A fingerprint sensing system	LEGAL DETAILS FOR DE	2021-12-05
7070	WO2IIII III III III	FINGERPRINT CARDS	2014-02-21	Method a second	Open	The present invention relates to a	LEGAL DETAILS FOR WO	2035-02-18
707(+++	US20	FINGERPRINT CARDS	2014-02-21	Method of second second	Open	The present invention relates to a	LEGAL DETAILS FOR US	2034-12-02
4370mmm	USITEMATE	APPLE	1997-09-11	Electronia de la companya de la comp	Open	A planar fingerprint pattern	LEGAL DETAILS FOR US	2017-09-11
1392	US	APPLE	2001-05-07	Finge	Open	A fingerprint detector having a	LEGAL DETAILS FOR US	2021-05-07
1392	EPILITATION	UPEK	2001-05-07	Finge worth distants with an arti-	Open	A fingerprint detector having a	LEGAL DETAILS FOR EP:	2022-05-03
1392	DE6	UPEK	2001-05-07	Finge - In the second	Open	A fingerprint detector having a	LEGAL DETAILS FOR DE	2011-12-01
1392	JP20mmmmm	ST MICROELECTRONICS	2001-05-07	The residence pulling to	Open	PROBLEM TO BE SOLVED: To	LEGAL DETAILS FOR JP2	2012-02-20
4345101	US *	APPLE	1999-05-11	Finge and the second second	Open	A fingerprint sensor package	LEGAL DETAILS FOR US	2022-01-16
433481171	USHMENITE	APPLE	1999-05-11	Finge worth worth and was	Open	A fingerprint sensor includes a	LEGAL DETAILS FOR US	2020-05-09
1405 - +	USHOL HIN	APPLE	1997-07-02	Solid in the land of the land	Open	A planar, capacitive-type,	LEGAL DETAILS FOR US	2017-07-02
14038878	EP IMMEN.III	ST MICROELECTRONICS	1997-07-02	Solid Mana Trape or The Salar	Open	A planar, capacitive-type,	LEGAL DETAILS FOR EPI	2018-06-30
1405 - +	DEC	ST MICROELECTRONICS	1997-07-02	Gerät	Open	A planar, capacitive-type,	LEGAL DETAILS FOR DE	2012-01-03
14038878	JP1 = == m == m	ST MICROELECTRONICS	1997-07-02	Solid-attack to particular and an arrange	Open	PROBLEM TO BE SOLVED: To	LEGAL DETAILS FOR JPH	2011-08-15
7007	US20	SYNAPTICS	2012-10-14	Biometric Inc.	Open	A method for providing a	LEGAL DETAILS FOR US	2033-10-09
6898	US20 *******	SYNAPTICS	2013-10-01	Compart and Louis button and	Open	A biometric sensor and button	LEGAL DETAILS FOR US	2034-09-29

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Sensing Area

Technology Comparison

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