

Consumer Physics SCiO Molecular Sensor Patent-to-Product Mapping

How has Consumer Physics patented its SCiO molecular sensor?

REPORT OUTLINE

- **Consumer Physics SCiO Molecular Sensor: Patent-to-Product Mapping**
- March 2017
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KEY FEATURES OF THE REPORT

- **Essential IP analysis** of Consumer Physics' patent portfolio including:
 - Time evolution of patent publications and countries of patent filings
 - Current legal status of patents
 - Citation network and competitive IP networks
 - Inventor identification
- **Deep insight on technology data**, including teardown analysis, of the SCiO spectrometer's components
- **Key patents related to the SCiO spectrometer's features** and held by Consumer Physics

OBJECTIVES OF THE REPORT

- Understand **Consumer Physics' IP strategy**
- **Identify key patents** held by Consumer Physics, and related to product features
- Understand the **IP environment** of Consumer Physics' portfolio
- Find the **link between patented technological solutions and the marketed product**

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- SCiO Molecular Sensor from Consumer Physics: Mobile Spectrometer Dongle - Reverse costing and technology analysis

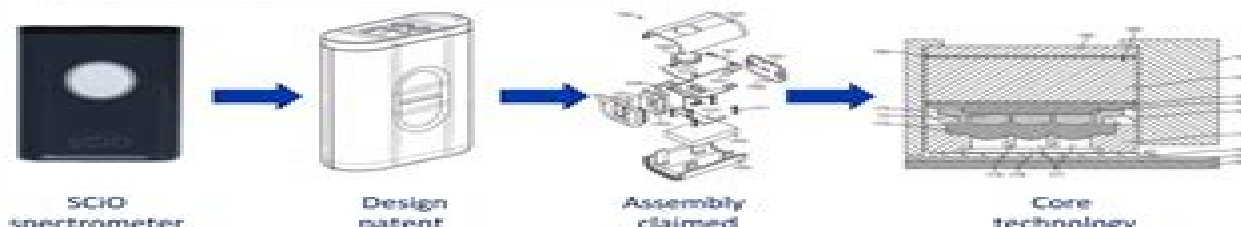
CONSUMER PHYSICS, PIONEER OF THE POCKET-SIZED MOLECULAR SENSOR

Consumer Physics Inc. develops and distributes molecular sensors, marketing its product under the SCiO brand name. According to Consumer Physics, the SCiO spectrometer is the world's first pocket size molecular sensor. The company had over 13,000 backers on Kickstarter and ended up raising over \$2.7 million.

Consumers can use SCiO to scan objects including fruit, vegetables, dairy food, meat, fish and medications. They can even scan their own bodies to measure total body fat. The SCiO app also includes a DIY applet that allows anyone to scan materials of their choosing and analyze the difference between their molecular identities.

Consumer Physics has won numerous awards including an "Enabled by Optics" award from OSA, The Optical Society, in 2016, the World Economic Forum Technology Pioneers Award 2015, the United Nations Netexplo Award 2015 and was a CES Innovation Honoree in 2016. SCiO has regularly appeared in top "products to watch" lists on Forbes, CNN, and Fortune, and has been covered numerous times by the media on television, in print and online. But what technologies are behind Consumer Physics' success and what are the main features claimed by its patents?

A CLEAR LINK BETWEEN PRODUCTS AND PATENTS



Combining the data obtained by System Plus Consulting's teardown of the SCiO molecular sensor with Knowmade's IP analysis, this report highlights IP related to this pocket-sized spectrometer. Moreover, it analyzes Consumer Physics' patent portfolio in order to understand the company's IP strategy and to identify main IP competitors.

Benefit from KnowMade and System Plus Consulting's combined added value, highlighting product features and related patents

Scio Molecular Sensor From Consumer Physics Mobile

Christian Huck, Krzysztof B. Bec



Scio Molecular Sensor From Consumer Physics Mobile:

Suitability of portable NIR sensors (food-scanners) for the determination of fruit quality along the supply chain using the example of tomatoes (Band 50) Simon Goisser, 2021-12-01 Food scanners are novel portable and miniaturized devices which operate on the principle of near infrared spectroscopy NIRS According to the manufacturers these devices are suitable for measuring a wide range of important quality parameters on fresh produce This research evaluated the suitability of food scanners for determining fruit quality along the supply chain of fruit and vegetables Using the qualitative research approach the first step of this research comprised interviews of experts at different positions along the fresh produce value chain in Germany Thereby preferences and concerns regarding the utilization and implementation of this technology for fresh produce were investigated Based on these findings non destructive prediction models for various important quality characteristics and secondary plant constituents were developed using the model fruit tomato In addition food scanner predictions of relevant quality traits on a wide range of produce from the fruit and vegetable assortment were examined The evaluations showed a high degree of conformity between the results of non destructive food scanner predictions and conventional destructive measurement methods The results illustrate the great potential of these novel devices for the application in everyday practice of fruit quality control along the fresh produce supply chain

Advances in Near Infrared Spectroscopy and Related Computational Methods Christian Huck, Krzysztof B. Bec, 2020-01-03 In the last few decades near infrared NIR spectroscopy has distinguished itself as one of the most rapidly advancing spectroscopic techniques Mainly known as an analytical tool useful for sample characterization and content quantification NIR spectroscopy is essential in various other fields e g NIR imaging techniques in biophotonics medical applications or used for characterization of food products Its contribution in basic science and physical chemistry should be noted as well e g in exploration of the nature of molecular vibrations or intermolecular interactions One of the current development trends involves the miniaturization and simplification of instrumentation creating prospects for the spread of NIR spectrometers at a consumer level in the form of smartphone attachments a breakthrough not yet accomplished by any other analytical technique A growing diversity in the related methods and applications has led to a dispersion of these contributions among disparate scientific communities The aim of this Special Issue was to bring together the communities that may perceive NIR spectroscopy from different perspectives It resulted in 30 contributions presenting the latest advances in the methodologies essential in near infrared spectroscopy in a variety of applications

Operations Management Joel D. Wisner, 2016-06-20 Finally an operations management book to get excited about Operations Management A Supply Chain Process Approach exposes students to the exciting and ever changing world of operations management through dynamic writing application and cutting edge examples that will keep students interested and instructors inspired Author Dr Joel Wisner understands that today s students will be entering a highly competitive global marketplace where two things are crucial a solid knowledge of

operations management and an understanding of the importance for organizations to integrate their operations and supply chain processes With this in mind Wisner not only provides a clear and comprehensive introduction to operations management but also gives attention to the important processes involved in linking firms operations in a supply chain environment

Food Science and Technology Oluwatosin Ademola Ijabadeniyi,2020-12-07 Food Science and Technology Trends and Future Prospects presents different aspects of food science i e food microbiology food chemistry nutrition process engineering that should be applied for selection preservation processing packaging and distribution of quality food The authors focus on the fundamental aspects of food and also highlight emerging technology and innovations that are changing the food industry The chapters are written by leading researchers lecturers and experts in food chemistry food microbiology biotechnology nutrition and management This book is valuable for researchers and students in food science and technology and it is also useful for food industry professionals food entrepreneurs and farmers

Future Smart James Canton,2015-01-27 Game changing trends are coming in business technology workforce economy security and environment Climate change energy demand and population growth will redefine global risk and power Exponential new technologies will emerge in digital money mobile commerce and big data An explosive new middle class of over one billion consumers will enter the marketplace Every nation job business and person will be transformed To thrive in this future you have to become predictive adaptive and agile to become Future Smart Dr James Canton a renowned global futurist and visionary business advisor illuminates the pivotal forces and global power shifts that everyone must understand today to thrive in a rapidly changing landscape Regenerative medicine will extend our lifetimes and rebuild our bodies Robots and drones will drive our cars teach our kids and fight our wars Smart machines will design manage and service 40% of all global businesses energy commerce finance and manufacturing without humans Digital consumers who live always connected will challenge every business to change its strategy Climate change wars will redefine security and resources Most of us are not prepared to meet the challenges the future will bring but these changes are coming fast Armed with knowledge those who are Future Smart can take action to reinvent themselves their businesses and their world

Future Foods Rajeev Bhat,2021-12-04 Future Foods Global Trends Opportunities and Sustainability Challenges highlights trends and sustainability challenges along the entire agri food supply chain Using an interdisciplinary approach this book addresses innovations technological developments state of the art based research value chain analysis and a summary of future sustainability challenges The book is written for food scientists researchers engineers producers and policy makers and will be a welcomed reference Provides practical solutions for overcoming recurring sustainability challenges along the entire agri food supply chain Highlights potential industrial opportunities and supports circular economy concepts Proposes novel concepts to address various sustainability challenges that can affect and have an impact on the future generations

Konzeption und Entwicklung einer Android-Fitness-App in Kombination mit Nahinfrarotspektroskopie Jürgen Koenig,2017-12-11

Bachelorarbeit aus dem Jahr 2016 im Fachbereich Informatik Angewandte Informatik Note 1,3 Hochschule für angewandte Wissenschaften Würzburg-Schweinfurt Sprache Deutsch Abstract Diese Bachelorarbeit beschäftigt sich mit der Frage ob die Technik der Nahinfrarotspektroskopie einen Mehrwert bzw. neue Funktionalitäten im Fitnessbereich bietet. Dabei wird die Fragestellung konkret mit der Aufgabenstellung nämlich das Analysieren der Protein- und Fettbestandteile von verschiedenen Nahrungsmitteln und das Entwickeln einer Applikation beantwortet. Resultat für diese wissenschaftliche Arbeit ist ein Basiskonzept, welche als Grundlage für künftige Entwicklungen dienen kann. Die Applikation, welche zum fernsteuern eines Nahinfrarotspektrometers dient, soll darüber hinaus für den einzelnen Athleten zusätzliche Funktionalitäten wie schnelle Protein- und Fettbestandteilanalyse, einfache Verzehrsempfehlung, persistente Datenhaltung der personenbezogenen Daten, einfach zu bedienende Oberfläche besitzen.

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