Non-Invasive Glucose Monitoring Patent Landscape

Description: The patent landscape for non-invasive glucose monitoring is really rich, involving many players exploring various technical approaches, such as IR spectroscopy, photoacoustic or impedance. It includes more than 1,600 patent families filed and involves over 500 applicants. With 387 million people concerned worldwide by diabetes in 2014 and an ever growing number of diabetics, the market related to diabetes management is considerable and very attractive.

The global glucose monitoring device market is estimated to reach $14 billion by 2019. To this date, the conventional technique to measure glucose still involves drawing blood (finger pricking), which can cause pain and discomfort for the patient. Hence, the need to find a non-invasive technique to monitor glucose. Many companies have tried to develop non-invasive technology and device for glucose monitoring, but so far with no success. A few devices had obtained approval from the authorities in the USA or Europe before being abandoned: GlucoWatch (Cygnus), Pendragon (Pendragon Medical), NBM-200G (OrSense) or HG1-c (C8 MediSensors). Recently, Integrity Applications received the European CE Mark and launched its GlucoTrack DF-F device late 2014 in Europe. While several minimally-invasive devices are now commercially available, bringing to the market a totally non-invasive device would represent a great change for the market and the diabetics.

The renewed IP interest for this topic observed recently shows the desire of players to overcome the same cause of failure faced in the last 3 decades, reliability and accuracy of the technology. The IP and the market for non-invasive monitoring of glucose are driven by the ever increasing diabetic population around the world as well as the recent sizeable democratization of wearable sensors for health monitoring. The spectrum of technologies investigated to monitor glucose non-invasively is very broad. Spectrometry is the most trendy technology. Spectrometry regroups various techniques, but they don’t all receive the same focus. The spectrum of sample targets studied to perform a non-invasive measurement is also really broad.

The detection of glucose level at the skin level or in the blood vessels are the most investigated. But techniques allowing a detection at the level of the eye are also considered and a new comer in the non-invasive glucose monitoring domain is investing mostly in this approach.

Key Features Of The Report:

The report provides essential patent data for non-invasive glucose monitoring including:
- Time evolution of patent publications and countries of patent filings
- Current legal status of patents
- Ranking of main patent applicants
- Joint developments and IP collaboration network of main patent applicants
- Key patents
- Granted patents near expiration
- Relative strength of main companies IP portfolio
- Non-invasive glucose monitoring IP profiles of 15 major companies with key patents, partnerships, and IP strength and strategy
- The report also provides an extensive Excel database with all patents analyzed in the study

Objective Of The Report:

- Understand the IP landscape for non-invasive glucose monitoring
- Identify key patents
- Understand trends in non-invasive glucose monitoring IP
- Classify the major players in noninvasive glucose monitoring IP and the relative strength of their patent portfolio
- Identify new players in non-invasive glucose monitoring IP
- Identify IP collaboration networks between key players

Contents: 1. Introduction
- Authors
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- Scope of the Report
- Terminology for Patent Analysis
- Methodology
- Search Strategy
- Main Industrial Assignees Mentioned
- Main Academic Assignees Mentioned
- Technology Overview

2. Executive Summary

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4. Main Patent Litigations
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   - Echo Therapeutics vs David J. Kappos
   - CME Telemetrix vs Sensys Medical
   - Potential Future Plaintiffs

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   - GlucoWatch - Cygnus (Animas Technologies)
   - Pendra - Pendragon Medical
   - NMB-200G - OrSense
   - HG1-c - C8 Medisensors
   - GlucoTrack DF-F - Integrity Applications

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   - Abbott
   - Cercacor
   - Masimo
   - Animas Technologies
   - Futrex
   - Samsung Electronics
   - Bayer Healthcare
   - Toshiba
- InLight Solutions
- Roche Diagnostics
- OrSense
- Google
- Integrity Applications

7. Conclusions

8. Annex

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