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Dr. Wolfgang Sening started his career at the chair in Quality Management of the FAU. He was then employed at the Engineering Office Dr. Schulze & Lang. Afterwards Dr. Sening came back to the FAU and worked at the chair Zoology II. He then joined the High Flyer Academy Würzburg. A job at the Institute for Pathology at the FAU followed. His next activity was at the Technical School for Cosmetics in Nürnberg. Then he changed to Cluster-Medizintechnik Bayern-Innovativ Gesellschaft for Innovation und Wissenstransfer as Project Manager and Manager. Now he is Managing Director of Senetics Healthcare.

RFID APPLICATIONS IN MEDICINE, MEDICAL TECHNOLOGY AND PRODUCTION

Abstract:

The growth of the Medical Technology Industry in Germany is enormous since 15 years, due to the fact that globalization and industrialization have a positive effect on economic development of former emerging markets. The desire for an adequate healthcare system coupled with the growing demand for imports of high-quality medical equipment from Germany is increasing. From 1998 to 2008, sales of medical equipment exports from Germany increased about almost 280% to around € 12 billion Euros, the domestic sales grew by 30% to about 6.7 billion Euros. The German Medical Technology Industry - with a global market share of 20% - has excellent preconditions to become the leading industry of the 21st century.

In many service sectors, in the procurement and distribution logistics, in the retail market, in plastic manufacturing companies and material handling systems, automatic-identification procedures (Auto-ID) got a wider distribution in the last few years. The task and goal of the Auto-ID is the provision of information on commodities, goods and merchandise. Due to the increasing competitive pressures, the processes have to be optimized inside and outside the company including the entire supply chain. Therefore, RFID is becoming increasingly important, as this technology provides the technical basis to optimize and redesign processes.

Following the entrepreneurial trend, healthcare facilities such as hospitals, retirement and rehabilitation facilities, medical offices, dental laboratories, pharmacies, medical supply stores and other stakeholders in the healthcare system are implementing the RFID technology. In addition to that, medical technology and medical computer science companies, pharmaceutical manufacturers and producers of medical aids represent a large application area for RFID: starting with the optimization of processes in hospitals, on the monitoring of blood, to the control of personalized patient medication to protect against false drug charges and fake medicines.



Frankfurt, 16-18 October 2012

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