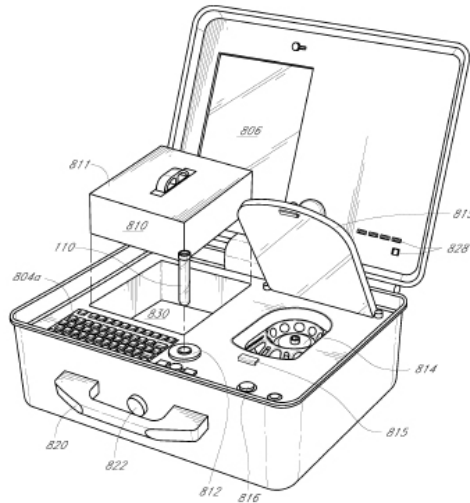




SMART MEDICAL TECHNOLOGIES – THE SMARTFUGE SYSTEM

Smart Medical Technologies' Smartfuge System – changing how information is gathered and processed in the laboratory/medical setting



WHAT IS THE SMARTFUGE SYSTEM?

Smart Medical Technologies' Smartfuge System is a hardware/software dynamic that replaces the current paper-bound information gathering methodology used by doctors and laboratories in the common procedures of acquiring and processing test samples. Available in both portable and office configurations, the Smartfuge System adds versatility and practicality into a reliable framework that ensures efficient analysis and patient safety.

Current lab procedures require a lab technician to complete a test request form and generate a bar code sticker for both the test request form and the test tube. The lab request form and the test tube must stay together until the testing process is completed, and then the form must be archived for auditing purposes.

The Smartfuge System allows a lab technician to quickly and easily enter all pertinent patient information in a matter of minutes, or instantly access data loaded from an existing database, and save the information onto the test tube itself. No paper trail is required because the test tube can be read from, or written to, at any time throughout the testing process.

THE HARDWARE HALLMARKS

SMART TEST TUBE SAMPLES – The Smartfuge System employs the use of SMT's patented smart test tube technology, which integrates RFID (Radio Frequency Identification) into common test collection protocols, eliminating redundant and unreliable barcode means of information storage and identification. In preliminary release, the Smart Test Tubes will be available in three test tube sizes, and will each feature the implanted RFID microchip that serves as the identification tag and information storage device physically bound throughout the lifespan of the sampling component.

SMARTFUGE READER – Coupled to SMT's Smart Test Tubes is the accompanying Smartfuge Reader, which passively powers and reads/writes relevant information through the Smart Test Tube RFID microchips. By passively powering the RFID microchips only when the chip is within a short range of the reader, the Smartfuge System provides an added level of information security and data integrity that keeps sensitive content safe and manageable, even in the most error-prone environments.

LOW PROFILE CENTRIFUGE – Available in the Smartfuge Portable System, SMT's uniquely engineered low profile centrifuge cuts down on weight and provides an analytical tool for on-the-go testing environments, particularly beneficial for first responders and emergency personnel. The centrifuge integrates into the Smartfuge System by providing a device by which a technician may examine and evaluate a test sample on site, fully compatible with the data management afforded by complementary Smartfuge hardware/software capabilities.



THE SOFTWARE SUITE

The Smartfuge Software Suite consists of three separate software programs each designed for different user requirements.

The Suite consists of:

- 1) Smartfuge Portable Centrifuge Software
- 2) Smartfuge Office Software
- 3) Smartfuge Reader Application Software

In essence, the Smartfuge Software Suite provides the functionality afforded by revolutionary RFID technology, and furthermore fully integrates into the medical environment with fully clarified form fields and an easy to use graphics interface.

THE BENEFITS OF THE SMARTFUGE SYSTEM

ERROR CHECKING – The Smartfuge System implements the use of close contact error protection as an inherent means of quality control when processing test specimens. With close contact error protection, data can only be read from or written to when the RFID chip is in close contact with the reader. Furthermore, the RFID reader has an internal timeout circuit, and is only functional during the read/write process. The information saved to the RFID chip may also be saved to a built-in Microsoft Access database, for future use.



DATA INTEGRITY – The Smartfuge System fulfills the requirements set by the Health Insurance Portability and Accountability Act of 1996 (HIPAA), which adopts the standards for the security of electronic protected health information. In conjunction with the propagation of Smartfuge systems, SMT will create a centralized database of microchip ID numbers that will serve as a reference system for all RFID products released into the market. Coupled with the inherent RFID security presented with the chip/reader interaction, the Smartfuge System will fully comply with all technical safeguards mandated by HIPAA. Furthermore, data may be exchanged with other laboratory information management systems via the embedded HL7 messaging feature.

ELIMINATES MISTAKES – Industry reports estimate an error rate between seven and twenty percent during laboratory testing processes. Oftentimes, these errors are a result of a doctor's illegible handwriting, or unreliable barcode tags that are frequently misread. The Smartfuge System implements an electronic interface for clear and legible data entry, and provides a dependable alternative to optical methods of information storage and identification, thus diminishing two of the major sources of error associated with medical testing protocols.



DECREASED LIABILITY CONSIDERATIONS – Doctors and laboratories are often faced with costly litigation as a result of mistakes or contentions made by their clients. By eliminating mistakes, by providing data integrity and electronic tracking, and by efficient error checking mechanisms, the Smartfuge System reduces costs associated with liability by removing the avenues by which doctors or laboratories are often held responsible if something goes wrong.

LOWERS THE LEARNING CURVE – The Smartfuge System is designed for the ease of use. By removing complicated forms and by modifying complex procedures and protocols, the Smartfuge simplifies medical testing to where a low-skilled or unskilled labor force may provide the human interaction necessary for samples to be adequately processed. In dramatically reducing the technical knowledge and expertise required for laboratory operation, the Smartfuge System thus reduces the costs associated with a highly skilled labor force and relieves the labor crunch commonly faced by the medical community.

To learn more about the Smartfuge System, please contact Smart Medical Technologies at 949-459-9050, or visit our website at <http://www.smartmedtech.com>.