

A Functional Textile-based Thermal-stimuli Drug Delivery Apparel System

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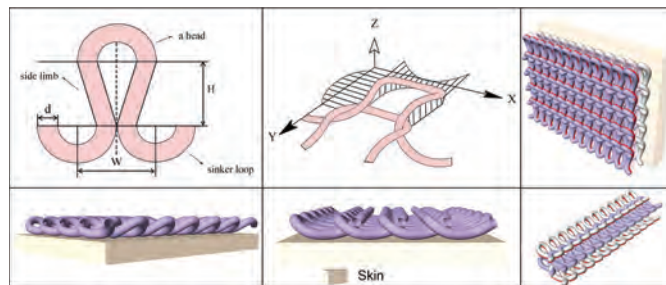
Fibre technology has not only entered an essential position in textile industry but also the medical and hygiene fields.

This research focuses on how “second-skin” apparel and skin interact with each other to serve therapy functions. The relation between the thermo-stimulated drug-delivery system and the textile will be studied for the development of healthcare apparel for patients whose disease are typically realized by applying ointment or dressing to the skin. This study provides a functional textile system that delivers low-cost, rapid, and efficient patient care. It is expected that the development of this system will bring great benefits to both patients who seek long-term daily medical treatment and the apparel industry.

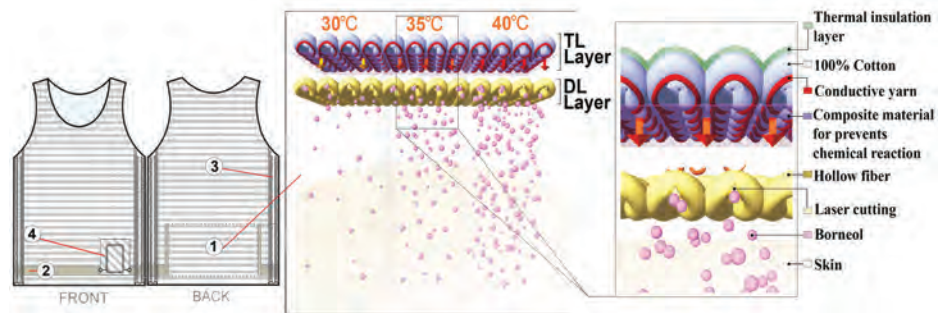
The application of the system will potentially apply to the following areas: textiles in healthcare development, functional fashion innovation, and care possibilities for patients.

Special Features

- Low cost and deliver rapid efficient patient care
- A functional textile system is conducted for developing healthcare apparel for patients



Pierce's 2D loop model and loop geometric configuration; contact regions between skin & loops and contact regions between the loops.



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