

節能衫材料技術研發計畫

執行單位

紡織所

計畫主持人

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- 依據都會區域高活動量、長時間站立之穿著情境，完成隔熱涼感與導濕抗菌2系列節能織物與服裝開發；另輔以國際熱舒適動態檢測技術，完成上述企業高活動量（走動工作）族群之工作熱舒適評估準則。

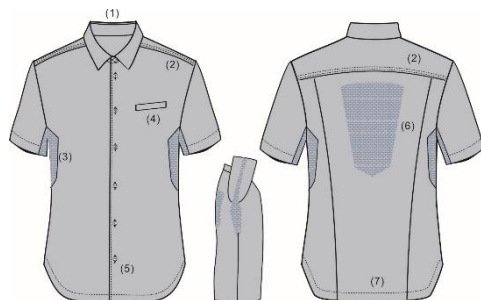
新型專利申請「襯衫織物」，申請編號：106215608

◎ 設計概念：

-以 body mapping 人體舒適為訴求，透過異材質(梭織+圓編)剪接，強化透氣結構與伸展彈性，展現節能服飾新形象。

◎ 重點細節說明：

- (1) 襯衫領
- (2) 肩線剪接，前肩線往前移
- (3) 腋下一片式透氣剪裁
- (4) 左胸立式裝飾袋
- (5) 跳色釦
- (6) 後中剪接針織布，增加透氣與活動伸展量
- (7) 衣下襠削邊設計，貼邊縫份包光壓車處理



新型專利申請「織物」，申請編號：106217094



本計畫為建構企業內低活動量辦公族群及百貨服務業等中活動量都會場所之節能穿著系統驗證評估技術，運用國際熱舒適驗證評估標準，輔以主客觀穿著舒適評估驗證能量，發展高性能節能材料與服飾，以滿足夏季冷房環境（26~28°C）之熱舒適服裝穿著系統；另就各類穿著系統之樣本建置，有效進行其與熱舒適之差異分析，藉以進行節能服裝之產品推廣與服務交流平台。



The Material Research and Development Plan for Energy-saving Shirts

Execution Unit

Taiwan Textile Research Institute

Project Director

Shih, Yang-PING

- Two series of heat reflection with cool touch and moisture conduction with anti-bacterial fabric and apparels are developing based on the wearing circumstances of high activity people in city area. In addition, the thermal comfort performance of the aforementioned innovated products will be evaluated by the international thermal comfort dynamic evaluation guideline to meet the comfort needs for high activity people such as salesmen or couriers in enterprise.

◎ Design Concept :

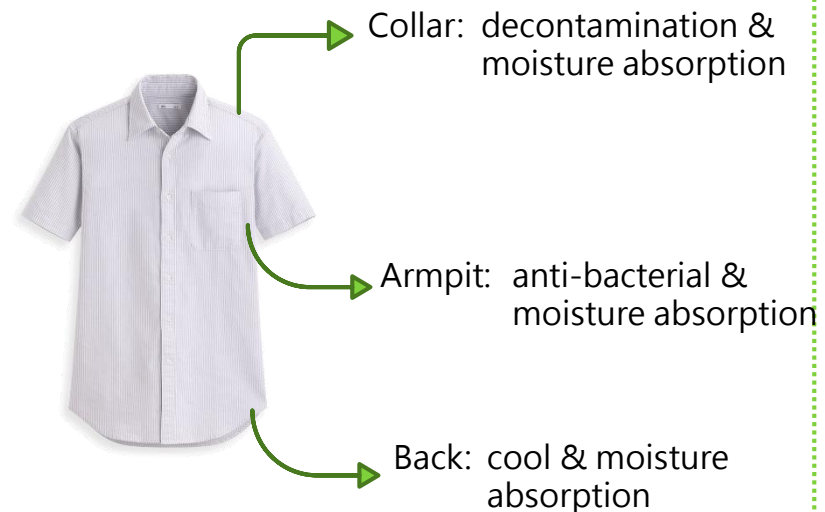
- based on body mapping design to meet comfort requirements through heterogeneous woven/knitting fabrics to enhance breathability and stretchability.

◎ Details :

- (1) shirt collar
- (2) shoulder line cutting
- (3) one piece breathable cutting in armpit
- (4) vertical decorative pocket in left chest
- (5) jump color button
- (6) center back cutting with knitting fabric to enhance breathability and stretchability



Patent #: 106215608



Patent #: 106217094

To respond the future indoor temperature controlling to 26~28°C in summer, the project aims at developing energy-saving clothing system which covers from energy-efficient yarns, textiles, apparels. In addition, the developed energy-saving clothing system is evaluated by the objective and subjective thermal comfort evaluation and certification followed by the international guideline and standards, which in turn to meet the wearing comfort for staff in medium-level activity such as department store workers, etc.. With the various clothing development to meet the human thermal comfort requirements in different activities, it will then help to carry out energy-saving clothing promotion and service exchange platform.

