

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321072565 A

132

(19) INDIA

(22) Date of filing of Application :25/10/2023

(43) Publication Date : 24/11/2023

(54) Title of the invention : INTERACTIVE THERMO-CHROMATIC AND SCENT-INFUSED TEXTILE

(51) International classification :B60N0002600000, A47G0009020000, D06M0015530000, D06M0023120000, B32B0027120000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Disclosed herein is an interactive thermo-chromatic and scent-infused textile material (100), which embodies a cutting-edge fusion of technology and textiles. The textile material (100), at its core, features a fabric matrix (102) meticulously crafted from a blend of synthetic and natural fibers, offering softness, durability, and flexibility. An integrated thermo-chromatic layer (104), responsive to human body temperature, dynamically changes the textile's color, while scent-releasing modules (106), strategically positioned, release fragrances in response to temperature fluctuations. An outer protective layer (108) preserves the scent-releasing modules and shields the textile from moisture and sunlight. This innovation finds diverse applications, from sportswear to luxury bedding, car seat covers to promotional merchandise, delivering immersive sensory experiences and personalization options. The embodiments presented in this application redefine the possibilities of textiles, enhancing everyday life with multi-sensory engagement and adaptability.

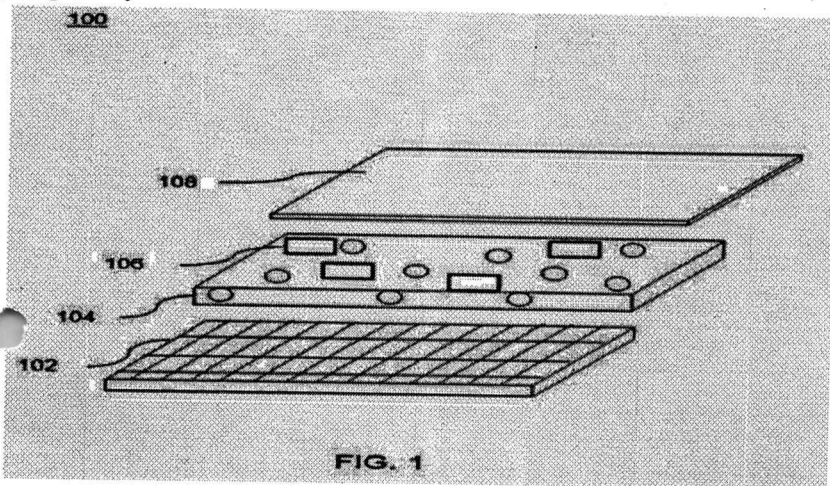


FIG. 1

No. of Pages : 14 No. of Claims : 7