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(54) Title: MIXTURE OF LIQUID-CRYSTAL COMPOUNDS, SYSTEM OF THREE LIQUID-CRYSTAL MIXTURES AND THEIR USE

(57) Abstract: The present invention relates to three organic compounds mixtures of liquid-crystal properties, which when mixed together in precisely determined weight ratio, are characterised by an ability to form thermo-optically active mesophases of established, narrow range thermo-optical transitions separation, every 0.5 °C, in the temperature range: from 31.8 °C to 32.8 °C, from 32.8 °C to 33.8 °C, and from 33.8 °C to 34.8 °C and system comprising these mixtures. The present invention also relates to the use of these mixtures and the system containing the above mentioned mixtures for colorimetric detection of temperature differentiation on the surface of biological objects in a narrow range of temperatures.



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