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Title: Vanadium oxide composite film preparing method, involves heating and reacting vanadium oxide powder and organic solvent by centrifugal separation process, and evaporating organic solvent to form vanadium oxide fullerene composite film

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Abstract: NOVELTY - The method involves heating and reacting vanadium oxide powder and organic solvent by a centrifugal separation process. The process is repeated for removing un-dissolved substance from the solvent. Vanadium oxide and carbon are mixed with vanadium oxide sol-gel spin coating for cleaning a surface a substrate by an annealing process. The organic solvent is evaporated to form a vanadium oxide fullerene composite film. Vanadium oxide sol-gel is mixed with an ultrasonic dispersion fullerene by the annealing process to form a vanadium oxide multi-layer composite film structure.

USE - Method for preparing a vanadium oxide composite film.

ADVANTAGE - The method enables improving far infrared wave band visible light to ensure high temperature resistance coefficient and better conductivity. The method enables utilizing a one-dimensional fullerene in an isotropic vanadium oxide-carbon composite film so as to improve sensitivity and optical response stability. The method enables obtaining the vanadium oxide-fullerene composite film a thermo-sensitive resistance material and a light absorption material by utilizing a terahertz or infrared detector so as to improve comprehensive performance a device.

DESCRIPTION DRAWING(S) - The drawing shows a schematic view a vanadium oxide composite film preparing method.

Derwent Class Code(s): P73 (Layered products)

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