

Title (en)
BODY WITH REVERSIBLY CHANGEABLE TEMPERATURE DEPENDENT EXTINCTION OF LIGHT AND METHOD FOR THE MANUFACTURE OF THIS BODY

Publication
EP 0000868 B1 19801210 (DE)

Application
EP 78100320 A 19780706

Priority
DE 2738253 A 19770825

Abstract (en)
[origin: US4268413A] In order, in the case of bodies with reversibly-variable absorbence, to adjust the zone of transition from transparent to opaque or vice versa at desired goal temperatures and to give the bodies a preferred form, such as sheet form, they consist of a substantially optically transparent polymeric and/or resinous matrix material (A) and an organic substance (B) which is embedded therein as a dispersed second phase and which is at least partially insoluble therein, and which melts or congeals at the goal temperature of light-absorbence variation, and the refractive index of which, either above or below the goal temperature of the light-absorbence variation, substantially agrees with the refractive index of the matrix material. Such bodies are usable in sheet (or film) form, for example, for temperature-measuring devices, temperature-indicating devices, and slippery-ice warning devices, as well as for devices on glass windows for protection against solar irradiation.

IPC 1-7
G01K 11/16; C09K 9/02; G02F 1/19

IPC 8 full level
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CPC (source: EP US)
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Cited by
EP0132692A3; EP0121733A3; EP0732571A1; US5627356A; GR890100539A; WO2019032959A1; WO2013127727A1; WO9412859A1; WO9817595A1; EP0014826B1

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