

Title (en)
METHOD FOR CONTROLLING A GLAZING UNIT WITH ELECTRICALLY CONTROLLABLE OPTICAL PROPERTIES

Title (de)
VERFAHREN ZUR STEUERUNG EINER VERGLASUNGSEINHEIT MIT ELEKTRISCH STEUERBAREN OPTISCHEN EIGENSCHAFTEN

Title (fr)
PROCÉDÉ DE COMMANDE D'UNE UNITÉ DE VITRAGE À PROPRIÉTÉS OPTIQUES POUVANT ÊTRE COMMANDÉES ÉLECTRIQUEMENT

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Abstract (en)
[origin: WO2022223409A1] The invention relates to a method for electrically controlling at least one functional element (2) enclosed in a glazing unit (100), said functional element having electrically controllable optical properties, wherein • the glazing unit (100) comprises a composite pane (1) which has an outer pane (1a) and an inner pane (1b) that are connected together via a thermoplastic intermediate layer (3, 3a, 3b), • the functional element (2) is arranged between the outer pane (1a) and the inner pane (1b) and has an active layer (9) with electrically controllable optical properties between a first flat electrode (10) and a second flat electrode (10), • the optical properties are controlled by means of a control unit (11), said control unit (11) being connected to at least two transparent flat electrodes (10) of the functional element (2), and • an electric voltage is applied between the flat electrodes (10) by means of the control unit (11). An inverse function (300, 300') is used to determine the value of the electric voltage; the inverse function (300, 300') is used as a temperature-based linearization function; the temperature of the functional element (2) or the composite pane (1) is detected by means of a temperature sensor (4); the temperature of the functional element (2) or the composite pane (1) is transmitted to the control unit (11); and the value of the electric voltage between the flat electrodes (10) is ascertained and applied by means of the control unit (11) on the basis of the temperature of the functional element (2) or the composite pane (1).

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