

ABSTRACT

The invention relates to an infrared reflectivity control device comprising at least one cell (1) which forms a housing comprising an upper cover (2) that is transparent in the visible range and a bottom plate (3) bearing at least two electrodes (4a, 4b) which can be connected to an electrical generator (5), the housing enclosing a fluid (6) that is transparent in the visible range and which is loaded with particles (7). This device is characterised in that: - the upper cover (2) and the fluid (6) are transparent in the wavelength range from 2.5 micrometres to 20 micrometres; - the electrodes (4a, 4b) are reflective in the infrared range; - the electrodes (4a, 4b) are unsymmetric, a first electrode (4a) having a first surface area and a second electrode (4b) having a second surface area, the first surface area being greater than the second surface area; - the particles (7) are of nanometric particle size and comprise at least one material capable of being electrically charged (non-zero zeta potential).

Fig. 1