

Title (en)
LONG BUSBARS HAVING SEGMENTS FOR INCREASED ROBUSTNESS

Title (de)
LANGE SAMMELSCHIENEN MIT SEGMENTEN FÜR EINE ERHÖHTE ROBUSTHEIT

Title (fr)
BARRE COLLECTRICE ALLONGÉE COMPORTANT DES SEGMENTS LUI CONFÉRANT UNE ROBUSTESSE ACCRUE

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Application
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Abstract (en)
[origin: WO2019206561A1] The invention relates to a vehicle window (1) which comprises, in this order, an outer glass pane, at least one outer laminated layer, at least one inner laminated layer and an inner glass pane, a PDLC layer stack being arranged between the outer laminated layer and the inner laminated layer, which PDLC layer stack is formed by a) an outer polymer substrate layer (2), b) an outer electrically conductive layer (3), c) a PDLC layer (4), d) an inner electrically conductive layer (5) and e) an inner polymer substrate layer (6), the inner electrically conductive layer (5) projecting, together with the inner polymer substrate layer (6), over a lateral portion of the PDLC layer stack, and the outer electrically conductive layer (3) projecting, together with the outer polymer substrate layer (2), over a different lateral portion of the PDLC layer stack, and a busbar (7, 8) being arranged in each case on the projecting inner electrically conductive layer (5) and the projecting outer electrically conductive layer (3), which busbar is connected to the electrically conductive layer (3, 5) of the PDLC layer stack by an electrically conductive intermediate layer (19), the busbars (7, 8) each being formed by at least two separate electrically conductive metal strips (9, 10, 11, 12, 13, 14) which are arranged one behind the other in the longitudinal direction, the adjacent, separate metal strips being connected by at least one bridge element (15) or an overlapping arrangement (16) so as to be electrically conductive. The advantages of the invention are: a more robust design of the busbar with respect to mechanical stresses, which allows the provision of longer busbars having a high level of robustness.

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