

Title (en)
SUN PROTECTION AND LIGHT-DEFLECTING LOUVERS FOR GUIDING ZENITH RADIATION INWARD

Title (de)
SONNENSCHUTZ UND LICHTABLENKENDE LAMELLEN ZUR LENKUNG DER ZENITSTRAHLUNG NACH INNEN

Title (fr)
PROTECTION SOLAIRE ET VOLETS DE DÉVIATION DE LUMIÈRE POUR GUIDER UN RAYONNEMENT ZÉNITHAL VERS L'INTÉRIEUR

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Abstract (en)

[origin: WO2017134118A1] The invention relates to light guiding louvers with asymmetrical louvers' cross sections for deflecting light with a V-shaped folded structure. The individual folds are made of at least two folded sides b_1 and b_2 , b_3 and b_4 with at least light reflective, shiny metallic tops. Between the louvers a shadow line S results in. The light guiding louvers consist of at least two louver part-pieces 10, 11, 40, 41, a first section 11, 41 results in with light deflection essentially back into the half-space I, which lies opposite the light incident side and a second section 10, 40 with light deflection essentially in the half-space A of the incident light. The sum of folded sides $\sum b_4$ of the folds W14 to W16, W33, W34 in the first section 11, 41 is larger and the sum of the angled folded sides $\sum b_3$ is smaller. The sum of the folded sides $\sum b_4$, divided by the sum of the angled folded sides $\sum b_3$ in the first section 11, 41, is larger than the sum of the folded sides $\sum b_1$, divided by the sum of the angled folded sides $\sum b_2$ and is likewise larger than the sum of the folded sides $\sum b_2$, divided by the sum of the folded sides $\sum b_i$ in the second louvers' section 10, 40. The sum of the width of folded sides $\sum b_1, \sum b_4$ divided by the number of folds n within equal size of sections of profile cross-sections, each in the same distance from the louver centre 29 is larger in the first section 11, 41 and smaller in the second section 10, 40 ($\sum b_4 / n > \sum b_1 / n$).

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Citation (search report)
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