

Title (en)
ARRANGEMENT FOR CONVERTING LIGHT INTO ELECTRICAL ENERGY

Title (de)
ANORDNUNG ZUM UMWANDELN VON LICHT IN ELEKTRISCHE ENERGIE

Title (fr)
SYSTÈME PERMETTANT DE CONVERTIR DE LA LUMIÈRE EN ÉNERGIE ÉLECTRIQUE

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Application
EP 21731413 A 20210531

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Abstract (en)
[origin: WO2021249803A2] The invention relates to an arrangement (2) for converting light from a light source into electrical energy, said arrangement comprising a plurality of planar elements and at least one photovoltaic cell (22), wherein the planar elements are stacked on top of one another and form a laminated body (4) which is delimited by an entry surface (6) and an exit surface (8) and at least one outer surface (10) as boundary surfaces, wherein a main direction is defined which is oriented from the entry surface (6) towards the exit surface (8), wherein the laminated body (4) has as elements at least one light-conducting element (18) and at least one first light-switching element (16), wherein the at least one light-conducting element (18) is located in front of the at least one first light-switching element (16) in the main direction, wherein the at least one photovoltaic cell (22) is located at at least one interface of the laminated body (4), wherein the at least one first light-switching element (16) can be adjusted to be either light-transmitting or light-inhibiting, wherein, if the at least one first light-switching element (16) is adjusted to be light-transmitting, the at least one first light-switching element (16) is designed to transmit light, and if the at least one first light-switching element (16) is adjusted to be light-inhibiting, the at least one first light-switching element (16) is designed to couple light into the at least one light conducting element (18), wherein the at least one light-conducting element (18) in this case is designed to conduct light that has been coupled in by the at least one first light-switching element (16) to the at least one photovoltaic cell (22) at the at least one interface, and wherein the at least one photovoltaic cell (22) is designed to convert received light into electrical energy.

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