

Title (en)
OPTICAL MODULE AND OPTICAL SYSTEM

Title (de)
OPTISCHES MODUL UND OPTISCHES SYSTEM

Title (fr)
MODULE OPTIQUE ET SYSTEME OPTIQUE

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Application
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Abstract (en)
[origin: WO2005031878A1] Disclosed is an optical module comprising a lens holder (14) into which a lens array consisting of three lenses (16, 18, 20) and a diaphragm (21), for example, is inserted. Preferably, the lenses (16, 18, 20) and the diaphragm (21) are clearly oriented by means of the geometrical shape thereof such that no further optical adjustment is required. Moreover, the circuit carrier (10) and the lens unit (14; 16, 18, 20; 21) are adjusted via at least one permanently flexible or springy element (22) which is disposed between the lens holder (14) and the circuit carrier (10) and presses the component-equipped area (10a) of the circuit carrier (10) away from the lens holder (14) and against at least one stop element (13; 35) that is in positive (37) contact with the lens unit (14; 16, 18, 20; 21). For the first time, the inventive design of an optical module or optical system advantageously dispenses with the need to take into account the thickness tolerance of the circuit carrier (10) and possible adhesives in the tolerance chain of generic optical modules or systems. The invention is particularly suitable for applications in the interior or exterior zone of a motor vehicle.

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