

**PHOTOVOLTAIC CONCENTRATOR DEVICE, PHOTOVOLTAIC-
CONCENTRATOR MODULE FORMED THEREOF AND MANUFACTURING
PROCESS THEREOF**

The invention relates to a photovoltaic device (20) for directly converting solar energy into electrical energy, comprising a solar cell (5) having a smaller surface area than a light entering surface (1) of the photovoltaic device (20), an optical unit (2) for concentrating the solar radiation (3) passing through to the light entrance surface (1) on a given area (22) defined by the smaller surface of the solar cell (5), positioned spaced apart from the light entering surface (1) and having a smaller surface in comparison to the light entering surface (1), and a transparent carrier body (6, 30) on which the solar cell (5) is arranged, For a simpler and cost-effective fabrication of the unit, it is proposed, that the carrier body is a transparent light exiting body (6, 30) through which the concentrated solar radiation (3) can pass and in that the solar cell (5) is arranged on a side of the light exiting body (6, 30) which is turned away from the light entering surface (1) and/or from the optical unit (2). Additionally, a PV concentration module (24) made up of multiple such photovoltaic devices as well as a cost-effective manufacturing process are proposed.

(Fig. 4.)