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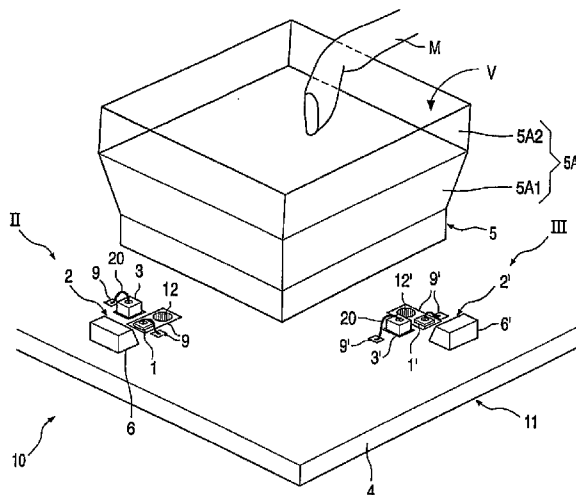
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(54) Title: OPTOELECTRONIC INPUT DEVICE, METHOD FOR PRODUCTION OF SUCH A DEVICE, AND METHOD FOR MEASURING THE MOVEMENT OF AN OBJECT WITH THE HELP OF SUCH A DEVICE



(57) Abstract: The invention relates to an optoelectronic input device (10) in which the input is formed by detected movements of an object (M), the device comprising an optical module (11) comprising at least one laser (1,1') with a cavity for the generation of a measuring radiation beam (S), optical means (2) for the guidance of the radiation beam (S) to a plane (V) close to the object (M) and conversion means (C) for the conversion of measuring beam radiation reflected and modulated by the object into an electrical signal, wherein the conversion means (C) are formed by a combination of the cavity of the laser (1) and measuring means (3) for measuring a change in the cavity during operation, which radiation is caused by reflected radiation entering the cavity. The optical module (11) comprises the laser (1)

mounted on a mounting board (4) with its cavity parallel thereto, and the optical means (2) comprises an optical component (2) like a mirror (2) mounted on the board (4) and aligned to the laser (1) which directs the beam (S) towards the plane (V). According to the invention the device (10) comprises a further optical component comprising a block-shaped body (5) which along side the laser (1) is directly mounted on the mounting board (4) and viewed in projection does not show overlap with the laser (1) and of which at least the upper part (5A) is optically transparent and of which the upper side forms the plane (V) close to the object (M). Such a device (10) can be relatively compact and, moreover, it can be manufactured more easily and cost-effectively. The invention also comprises a method of manufacturing such a device and a method for inputting the movement of an object (M) therewith.

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