

(12) 按照专利合作条约所公布的国际申请

(19) 世界知识产权组织
国际局



(10) 国际公布号
WO 2025/060548 A1

(43) 国际公布日
2025 年 3 月 27 日 (27.03.2025)

(51) 国际专利分类号:
G02F 1/025 (2006.01) **G02B 6/136** (2006.01)

(21) 国际申请号: PCT/CN2024/100814

(22) 国际申请日: 2024 年 6 月 22 日 (22.06.2024)

(25) 申请语言: 中文

(26) 公布语言: 中文

(30) 优先权:
202322533194.9 2023年9月18日 (18.09.2023) CN

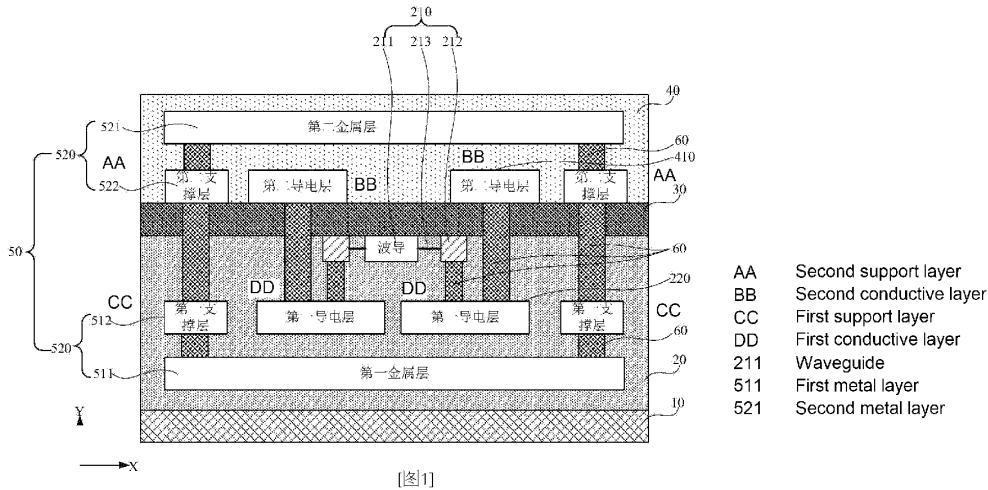
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(54) Title: OPTICAL MODULATOR

(54) 发明名称: 光调制器



[图1]

(57) Abstract: The present utility model relates to an optical modulator, comprising: a first dielectric layer; a second dielectric layer, which is located on the first dielectric layer, wherein a waveguide structure and first conductive layers are provided in the second dielectric layer, the waveguide structure is electrically connected to the first conductive layers by means of via holes, and the first conductive layers are used for adjusting light which is transmitted by means of the waveguide structure; an insulating layer, which is located on a waveguide layer; a third dielectric layer, which is located on the insulating layer, wherein second conductive layers are provided in the third dielectric layer, and the second conductive layers are electrically connected to the first conductive layers by means of via holes; and a shielding structure, which comprises a first shielding structure and a second shielding structure that are electrically

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connected to each other, wherein the first shielding structure is located in the second dielectric layer, the second shielding structure is located in the insulating layer and the third dielectric layer, and the first shielding structure and the second shielding structure enclose to form a cage, the waveguide structures, the first conductive layers and the second conductive layers being located in the cage. The optical modulator realizes electromagnetic shielding between a modulator and the outside, thereby improving the modulation performance.

(57) 摘要: 本实用新型涉及一种光调制器, 包括: 第一介质层; 第二介质层, 位于第一介质层上, 第二介质层中设有波导结构和第一导电层, 波导结构通过过孔与第一导电层电性连接, 第一导电层用于调节通过波导结构传输的光; 绝缘层, 位于波导层上; 第三介质层, 位于绝缘层上, 第三介质层中设有第二导电层, 第二导电层通过过孔与第一导电层电性连接; 屏蔽结构, 包括相互电性连接的第一屏蔽结构和第二屏蔽结构, 第一屏蔽结构位于第二介质层内, 第二屏蔽结构位于绝缘层和第三介质层内, 第一屏蔽结构与第二屏蔽结构围合形成笼体; 其中, 波导结构、第一导电层和第二导电层位于笼体内。该光调制器实现了调制器与外界之间的电磁屏蔽, 提高了调制性能。