

Title (en)

OPTICAL SWITCHING/MODULATION DEVICE

Title (de)

OPTISCHE SCHALT/MODULATIONSVORRICHTUNG

Title (fr)

DISPOSITIF OPTIQUE DE COMMUTATION/MODULATION

Publication

**EP 1232415 A2 20020821 (EN)**

Application

**EP 00974517 A 20001109**

Priority

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- EP 0011128 W 20001109
- EP 99123324 A 19991123
- US 16791799 P 19991130

Abstract (en)

[origin: WO0138933A2] An optical switching/modulation device (1) comprises a substrate (2) made from lithium niobate, a first, a second and a third waveguide (3-5) for the light, formed on the substrate and forming a Y structure, a central electrode (6) lying between the second and third waveguide (4, 5) and a pair of outer electrodes (7, 8) adjacent to the second and third waveguide (4, 5) respectively on opposite sides from the central electrode (6); the waveguides (3-5) are connected by means of a connecting waveguide (10) having a longitudinal axis (9) and including a multimodal transmission region (14); the central electrode (6) has a longitudinal extension (6b) extending within the multimodal region (14) and having an end (6c) terminating within the multimodal region (14), in such a way that a particularly high value of the extinction ratio of the device can be provided.

IPC 1-7

**G02F 1/313**

IPC 8 full level

**G02F 1/313** (2006.01)

CPC (source: EP)

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