

## EUROINVENT 2016

**MD.12.**

**Title**

**Optical devices based on polarized light filters**

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**Patent no.**

Patent pending

**Description EN**

The paper presents several concepts of devices based on anisotropic crystals, which permit to separate polarized light signals. The devices are elaborated using semiconductor waveguides and ZnAs<sub>2</sub> layers, which can filter the polarization plane of optical signals and can operate as switches or splitters of polarized light. These prototypes assure the interleaving/deinterleaving operations used in modern optic communication systems.

**Class no.**

10: Information Technology and Communication