

Title (en)

METHOD AND DEVICE FOR MODIFYING THE POLARIZATION STATE OF LIGHT

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ÄNDERUNG DES POLARISATIONSZUSTANDES VON LICHT

Title (fr)

PROCEDE ET DISPOSITIF POUR CHANGER L'ETAT DE POLARISATION DE LA LUMIERE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2006060831A1] A method for modifying the polarization state of light with a magnetically uniaxial crystal which initially has a specific multidomain structure, wherein light enters via predefined areas of the crystal, and wherein a magnetic field pulse having a magnetic intensity H1 is applied to the crystal (1), wherein the crystal (1) is transformed into a reversible monodomain state. In order to obtain an enlargement of the useful aperture, while at the same time keeping switching and response times to a minimum, a retention magnetic field of the same polarity and having a magnetic field intensity H2 is applied to the crystal (1) after transition of the crystal (1) into a reversible monodomain state, wherein the magnetic field intensity H2 is lower than the magnetic field intensity H1 and the reversible monodomain state is maintained.

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