

Title (en)
NARROW-BAND OPTICAL INTERFERENCE FILTER

Title (de)
INTERFERENZOPTISCHES SCHMALBANDFILTER

Title (fr)
FILTRE OPTIQUE INTERFERENTIEL A BANDE ETROITE

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Application
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Abstract (en)
[origin: DE19932082A1] The invention relates to a narrow-band optical interference filter for a wavelength (λ_0) comprising a plurality of dielectric layers, whereby said dielectric layers alternately have a high (nH) and a low refractive index (nL) and the optical layer thickness of the dielectric layers amounts to $\lambda/4$ or $\lambda/2$ or an integral multiple thereof. The invention is characterized in that at least one $\lambda/4$ or $\lambda/2$ layer of the layer system has a refractive index differing from the high (nH) or low refractive index (nL) of the other layers in the layer system so that the formation of "ripples" in the transmission band of the filter is reduced.

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