

Title (en)
DYNAMIC SPECTRAL SHAPING IN OPTICAL FIBRE COMMUNICATION

Title (de)
DYNAMISCHE SPEKTRALFORMUNG IN LICHTWELLENLEITER-ÜBERTRAGUNG

Title (fr)
MISE EN FORME SPECTRALE DYNAMIQUE POUR APPLICATIONS AVEC FIBRES OPTIQUES

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Application
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- US 37264999 A 19990811
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Abstract (en)

[origin: WO0111419A2] The present invention is directed towards dynamic spectral shaping. Using a grating, the spectral band is spread across an MEMS or other suitable device array. The device may be the deformable grating modulator invented by Bloom et. al. (patent no. 5,311,360) or other suitable device. The invention also includes the coupling in and out of the fiber and may use polarization optics to ensure the grating is used in only one polarization where the diffraction efficiency is higher.

[origin: WO0111419A2] The present invention is directed towards dynamic spectral shaping. Using a grating (150), the spectral band is spread across a diffractive MEMS (200) or other suitable device operable as a controllable grating providing a controllable reflectivity as a function of wavelength. The device may be the deformable grating modulator invented by Bloom et. al. (US patent no. 5,311,360) or other suitable device. The invention also includes the coupling in and out of the fiber (105) and may use polarization optics (130, 140) to ensure the grating is used in only one polarization where the diffraction efficiency is higher.

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