

TITLE

SIMPLIFIED WDM FUSED FIBER COUPLER DESIGN

INVENTORS

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ABSTRACT OF THE DISCLOSURE

A two-channel optical fiber fused coupler comprising two optical fibers, each with a core and cladding, fused together at a narrow tapered waist. The first channel is at a wavelength of λ_1 and the second channel is at a wavelength of λ_2 where λ_2 is longer than λ_1 . The coupler is fabricated to have a characteristic wavelength λ_0 such that for wavelengths λ_2 longer than λ_0 coupling occurs and for wavelengths λ_1 shorter than λ_0 the light at λ_1 is core guided throughout the coupler and thus does not couple across.

