

Title (en)

SYSTEM FOR HIGHER-ORDER DISPERSION COMPENSATION INCLUDING A DELAY LINE

Title (de)

SYSTEM ZUR DISPERSIONSKOMPENSATION HÖHERER ORDNUNG MIT VERZÖGERUNGSLEITUNG

Title (fr)

SYSTEME DE COMPENSATION DE DISPERSION D'ORDRE SUPERIEUR COMPRENANT UNE LIGNE A RETARD

Publication

**EP 1461880 A2 20040929 (EN)**

Application

**EP 02792497 A 20021219**

Priority

- US 0240959 W 20021219
- US 34496501 P 20011231
- US 32395202 A 20021218
- US 32330102 A 20021218

Abstract (en)

[origin: WO03058857A2] A high-order dispersion compensator having a first order and a second-order polarization mode dispersion compensation elements including a polarization beam splitter coupled to receive the polarization controlled signal and split it into a first polarization component and a second orthogonal polarization component. A first waveguide having a first non-linearly chirped grating receives the first polarization signal. A second waveguide having a second non-linearly chirped grating receives the second polarization signal. A first tuning mechanism tunes both the first and the second grating simultaneously and a second tuning mechanism tunes the second grating independently. The compensator also may have a static chromatic dispersion compensation element.

IPC 1-7

**H04B 10/18**; **G02B 6/293**

IPC 8 full level

**G02B 6/34** (2006.01); **H04B 10/2519** (2013.01); **H04B 10/2569** (2013.01)

CPC (source: EP)

**G02B 6/278** (2013.01); **H04B 10/2519** (2013.01); **H04B 10/2569** (2013.01)

Citation (search report)

See references of WO 03058857A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)

**WO 03058857 A2 20030717**; **WO 03058857 A3 20031016**; AU 2002358259 A1 20030724; CN 1659809 A 20050824; EP 1461880 A2 20040929

DOCDB simple family (application)

**US 0240959 W 20021219**; AU 2002358259 A 20021219; CN 02826430 A 20021219; EP 02792497 A 20021219