

Title (en)

OPTICAL DATA PROCESSING USING ELECTROABSORPTION MODULATORS

Title (de)

OPTISCHE DATENVERARBEITUNG MIT ELEKTROABSORPTION-MODULATOREN

Title (fr)

TRAITEMENT DE DONNEES OPTIQUES A L'AIDE DE MODULATEURS D'ABSORPTION

Publication

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Application

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Priority

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Abstract (en)

[origin: WO9905812A1] A method of processing an optical data stream modulated with a return to zero format is described which comprises splitting the optical data stream into first and second data streams; coupling the first data stream into a first input port of an electroabsorption modulator (EAM); processing the first data stream in the EAM; coupling the processed first data stream out of a first output port of the EAM; coupling the second data stream into a second input port of the EAM; and processing the second data stream in the EAM. OTDM transmission systems and nodes for such systems are described in which an electroabsorption modulator is used as a gating element for optical data passing in opposite directions through the modulator. Demultiplexing, Drop and Insert, clock extraction/synchronization are all suggested as options for the process accomplished by the modulator.

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