

Abstract of the Disclosure

5 The high transmission capacity of an optical transmission path (about
200,000 km Mbit/s) is used, among others, to couple several data sources and data
sinks to an optical waveguide. The task of the invention is to ensure the coupling
in and out of several data streams to or from any path section of a (predetermined)
optical transmission path. This task is fulfilled by a device for the parallel-serial
conversion, and a device for the serial-parallel conversion of the data streams to
the optical transmission path. The coupling in and out of the individual data
streams is performed by optical modulators or optical expanders, which are
10 incorporated into the optical transmission path. Several data streams are parallel-
serial converted by means of additional incorporated optical time delay elements,
which ensure the bit interlacing of the data streams (bit-interleaved).

