Abstract: An optical-electrical transmitting device for transmitting a signal includes an electrical signal transmitting circuit which divides a transmission signal into a first transmission signal and a second transmission signal, a switching device which is electrically connected to receive and converts the first signal into an identification signal for determining the transmission signal to be one of a fast signal and a slow signal, and a selector which is electrically connected to receive the second transmission signal and the identification signal and outputs the second transmission signal to an optical waveguide when the transmission signal is determined to be the fast signal and an electrical wiring when the transmission signal is determined to be the slow signal, the optical waveguide optically connecting the electrical signal transmitting circuit to an electrical signal receiving circuit, the electrical wiring electrically connecting the electrical signal transmitting circuit to the electrical signal receiving circuit.
INTERNATIONAL SEARCH REPORT

A CLASSIFICATION OF SUBJECT MATTER
IPC(8) - GO2B 6/12 (2008 01)
USPC - 385/14

According to International Patent Classification (IPC) or to both national classification and IPC

B FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC(8) - GO2B 6/12 (2008 01)
USPC - 385/14

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
IPC(8) - GO2B 6/12 (2008 01) - see keyword below
USPC - 385/14 15 53 88 - see keyword below

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWEST(USTP,PGPB,EPAB,JPAB) Google patent, Google scholar
Search terms - Conversion, signal, optical, waveguide, fiber, electrical, frequency, comparison, selection, priority, clock, counter, comparator, buffer, memory, accumulator, selector wiring, transmission, switch, router - see continuation

C DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate of the relevant passages</th>
<th>Relevant to claim No</th>
</tr>
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<td>Y</td>
<td>US 6,337,886 B1 (ASAHI) 08 January 2002 (08 01 2002) Abstract, Figure 4, Claim 9, col 2, In 1-2 col 3, In 7-11, col 6, In 18-22, col 6, In 22-24</td>
<td>1-18</td>
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</tbody>
</table>

D Further documents are listed in the continuation of Box C

D Date of the actual completion of the international search

19 January 2008 (19 01 2008)

D Date of mailing of the international search report

14 MAR 2008

D Name and mailing address of the ISA/US

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D Form PCT/ISA/2 10 (second sheet) (April 2007)