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(54) Title: FIBER AMPLIFIER CONTROL METHOD, APPARATUS AND SYSTEM, TRANSMISSION NODE, AND STORAGE MEDIUM

(54) 发明名称: 光纤放大器控制方法、装置、系统、传输节点和存储介质

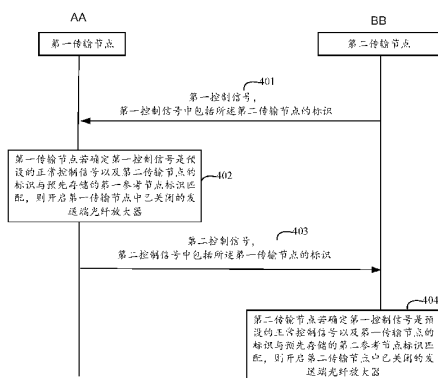


图 1

401 First control signal, the first control signal comprising an identifier of the second transmission node
402 If it is determined that the first control signal is a preset normal control signal and the identifier of the second transmission node matches a pre-stored identifier of a first reference node, the first transmission node turns on a transmit-end fiber amplifier which is turned off in the first transmission node
403 Second control signal, the second control signal comprising an identifier of the first transmission node
404 If it is determined that the first control signal is a preset normal control signal and the identifier of the first transmission node matches a pre-stored identifier of a second reference node, the second transmission node turns on a transmit-end fiber amplifier which is turned off in the second transmission node
AA First transmission node
BB Second transmission node

(57) Abstract: A fiber amplifier control method, apparatus and system, a transmission node, and a storage medium. A plurality of WDM transmission systems are deployed between a first communication end and a second communication end, and at least one target WDM transmission system comprises a first transmission node (b1) and a second transmission node (a1). The first transmission node (b1) receives a first control signal that is sent by the second transmission node (a1) and comprises an identifier of the second transmission node (401); and if it is determined that the first control signal is a normal control signal and the identifier of the second transmission node matches a pre-stored identifier of a first reference node, a transmit-end fiber amplifier (C) in the first transmission node (b1) is turned on (402). When the second transmission node (a1) receives a second control signal that is sent by the first transmission node (b1) and comprises an identifier of the first transmission node, a similar determination is made so as to turn on a transmit-end fiber amplifier (A) in the second transmission node (a1). Thus, accurate switch control of a fiber amplifier in a WDM transmission system is implemented, and data security is ensured.

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PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD,
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本国际公布:

— 包括国际检索报告 (条约第21条(3))。

(57) 摘要: 一种光纤放大器控制方法、装置、系统、传输节点和存储介质, 第一通信端和第二通信端之间部署有多个WDM传输系统, 至少一个目标WDM传输系统中包括第一传输节点(b1)和第二传输节点(a1)。第一传输节点(b1)接收第二传输节点(a1)发送的含有第二传输节点标识的第一控制信号(401), 若确定第一控制信号是正常控制信号且第二传输节点标识与预先存储的第一参考节点标识匹配, 则开启第一传输节点(b1)中发送端光纤放大器(C) (402)。第二传输节点(a1)接收第一传输节点(b1)发送的含有第一传输节点标识的第二控制信号时, 执行类似判断, 以开启第二传输节点(a1)中的发送端光纤放大器(A)。实现了WDM传输系统中光纤放大器的准确开关控制, 保证了数据安全。