

ABSTRACT

A method and an apparatus for controlling an optical fiber amplifier, a 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. At least one target WDM transmission system includes a first transmission node (b1) and a second transmission node (a1). The first transmission node (b1) receives (401) a first control signal including an identifier of the second transmission node sent by the second transmission node, and switches on (402) a transmit-end optical fiber amplifier (C) of the first transmission node (b1) if determining that the first control signal is a normal control signal and that the second transmission node identifier matches a pre-stored first reference node identifier. The second transmission node (a1) receives a second control signal including an identifier of the first transmission node sent by the first transmission node (b1), and performs a similar judgment to switch on a transmit-end optical fiber amplifier (A) of the second transmission node (a1). Accurate switching control of the optical fiber amplifier in the WDM transmission system is achieved, ensuring data security.

Fig. 4