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(71) 申请人: 武汉光迅科技股份有限公司
(ACCELINK TECHNOLOGIES CO., LTD) [CN/CN];
中国湖北省武汉市洪山区邮科院路 88
号, Hubei 430074 (CN)。

(72) 发明人: 周奇(ZHOU, Qi); 中国湖北省武汉市洪山区邮科院路 88 号, Hubei 430074 (CN)。 刘朝霞(LIU, Zhaoxia); 中国湖北省武汉市洪山区邮科院路 88 号, Hubei 430074 (CN)。 张颖(ZHANG, Ying); 中国湖北省武汉市洪山区邮科院路 88 号, Hubei 430074 (CN)。 袁涛(YUAN, Tao); 中国湖北省武汉市洪山区邮科院路 88 号, Hubei 430074 (CN)。 喻杰奎(YU, Jiekui); 中国湖北省武汉市洪山区邮科院路 88 号, Hubei 430074 (CN)。 张传彬(ZHANG, Chuanbin); 中国湖北省武汉市洪山区邮科院路 88 号, Hubei 430074 (CN)。 彭正威(PENG, Zhengwei); 中国湖北省武汉市洪山区邮科院路 88 号, Hubei 430074 (CN)。 何菲菲(HE, Feifei); 中国湖北省武汉市洪山区邮科院路 88 号, Hubei 430074 (CN)。

(54) Title: APR PROTECTION METHOD AND DEVICE, AND COMPUTER STORAGE MEDIUM

(54) 发明名称: 一种APR保护方法、装置及计算机存储介质

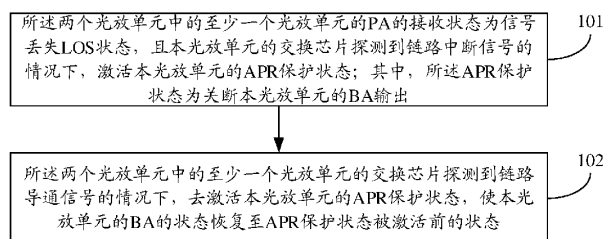


图 1

- 101 In the case that the reception state of a PA of at least one of the two optical amplification units is a loss of signal (LOS) state and a switch chip of said optical amplification unit detects a link interruption signal, activate an APR protection state of said optical amplification unit, wherein the APR protection state is to turn off BA output of said optical amplification unit
- 102 In the case that the switch chip of the at least one of the two optical amplification units detects a link conduction signal, deactivate the APR protection state of said optical amplification unit to restore the state of a BA of said optical amplification unit to a state before the APR protection state is activated

(57) Abstract: Disclosed are an APR protection method and device, and a computer storage medium. For two optical amplification units at two ends of a transmission line, a preamplifier PA of each of the two optical amplification units is connected to a power optical amplifier BA of the other optical amplification unit by means of an optical fiber. The method comprises: in the case that the reception state of the PA of at least one of the two optical amplification units is a loss of signal (LOS) state and a switch chip of said optical amplification unit detects a link interruption signal, activating an APR protection state of said optical amplification unit, wherein the APR protection state is to turn off BA output of said optical amplification unit; and in the case that the switch chip of the at least one of

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(74) 代理人: 北京派特恩知识产权代理有限公司(CHINA PAT INTELLECTUAL PROPERTY OFFICE); 中国北京市海淀区海淀南路21号中关村知识产权大厦B座2层, Beijing 100080 (CN)。

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the two optical amplification units detects a link conduction signal, deactivating the APR protection state of said optical amplification unit to restore the state of the BA of said optical amplification unit to a state before the APR protection state is activated.

(57) 摘要: 本申请实施例公开了一种APR保护方法、装置和计算机存储介质, 对于传输线路两端的两个光放单元, 所述两个光放单元中的每个光放单元的前置放大器PA与另一个光放单元的功率光放大器BA之间通过光纤连接, 所述方法包括: 所述两个光放单元中的至少一个光放单元的PA的接收状态为信号丢失LOS状态, 且本光放单元的交换芯片探测到链路中断信号的情况下, 激活本光放单元的APR保护状态; 其中, 所述APR保护状态为关断本光放单元的BA输出; 所述两个光放单元中的至少一个光放单元的交换芯片探测到链路导通信号的情况下, 去激活本光放单元的APR保护状态, 使本光放单元的BA的状态恢复至APR保护状态被激活前的状态。