

(12) 按照专利合作条约所公布的国际申请

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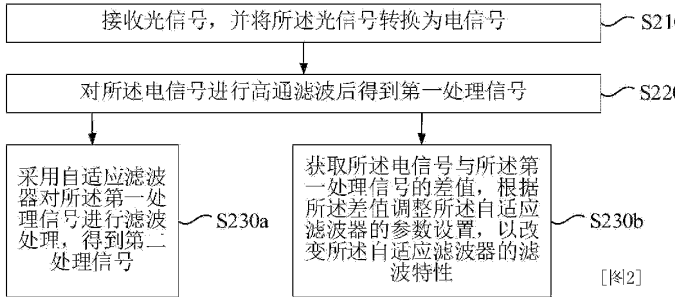
(10) 国际公布号
WO 2024/087837 A1

(43) 国际公布日
2024 年 5 月 2 日 (02.05.2024)

- (51) 国际专利分类号:
H04B 10/60 (2013.01) **H04B 10/69** (2013.01)
- (21) 国际申请号: PCT/CN2023/114567
- (22) 国际申请日: 2023 年 8 月 24 日 (24.08.2023)
- (25) 申请语言: 中文
- (26) 公布语言: 中文
- (30) 优先权:
202211309090.3 2022 年 10 月 25 日 (25.10.2022) CN
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- (81) 指定国(除另有指明, 要求每一种可提供的国家保护): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW。
- (84) 指定国(除另有指明, 要求每一种可提供的地区保护): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), 欧亚

(54) Title: SIGNAL PROCESSING METHOD AND SYSTEM FOR OPTICAL COMMUNICATION RECEIVING END

(54) 发明名称: 光通信接收端的信号处理方法、系统



S210 Receive an optical signal and convert the optical signal into an electrical signal
S220 Perform high-pass filtering on the electrical signal to obtain a first processed signal
S230a Perform filtering processing on the first processed signal by using an adaptive filter, so as to obtain a second processed signal
S230b Acquire a difference between the electrical signal and the first processed signal, and according to the difference, adjust the parameter setting of the adaptive filter to change the filtering characteristic of the adaptive filter

(57) Abstract: The present disclosure relates to a signal processing method and system for an optical communication receiving end. The method comprises: receiving an optical signal and converting the optical signal into an electrical signal; performing high-pass filtering on the electrical signal to obtain a first processed signal; performing filtering processing on the first processed signal by using an adaptive filter, so as to obtain a second processed signal; and acquiring a difference between the electrical signal and the first processed signal, and according to the difference, adjusting the parameter setting of the adaptive filter to change the filtering characteristic of the adaptive

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(AM, AZ, BY, KG, KZ, RU, TJ, TM), 欧洲 (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG)。

根据细则4.17的声明:

- 关于发明人身份(细则4.17(i))
- 关于申请人有权申请并被授予专利(细则4.17(ii))
- 发明人资格(细则4.17(iv))

本国际公布:

- 包括国际检索报告(条约第21条(3))。

filter. The use of the method can effectively filter out noise in a transmitted signal and improve the quality of signal transmission.

(57) 摘要: 本公开涉及一种光通信接收端的信号处理方法、系统。所述方法包括: 接收光信号, 并将所述光信号转换为电信号; 对所述电信号进行高通滤波后得到第一处理信号; 采用自适应滤波器对所述第一处理信号进行滤波处理, 得到第二处理信号; 获取所述电信号与所述第一处理信号的差值, 根据所述差值调整所述自适应滤波器的参数设置, 以改变所述自适应滤波器的滤波特性。采用本方法能够有效滤除传输的信号噪声, 提升信号传输的质量。