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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。

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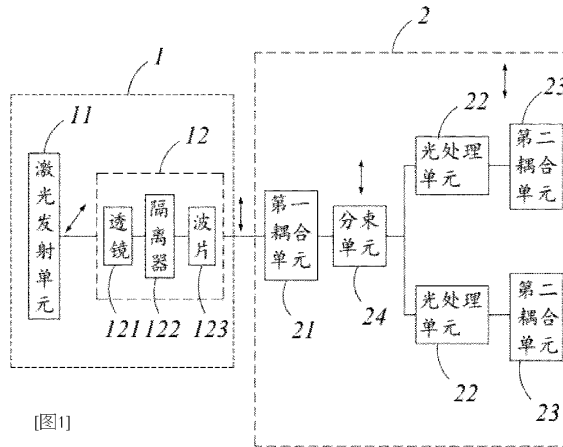
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(54) Title: LIGHT-EMITTING ASSEMBLY AND OPTICAL MODULE

(54) 发明名称: 光发射组件和光模块



[图1]

- 11 Laser-emitting unit
- 21 First coupling unit
- 22 Optical processing unit
- 23 Second coupling unit
- 24 Beam-splitting unit
- 121 Lens
- 122 Isolator
- 123 Wave plate

(57) Abstract: Disclosed in the present utility model are a light-emitting assembly and an optical module. The light-emitting assembly comprises a light output unit and an optical chip, wherein the light output unit is used for outputting vertical polarized light; the optical chip is sequentially connected to a first coupling unit, an optical processing unit and a second coupling unit in an optical signal propagation direction by means of an optical transmission waveguide; the first coupling unit is used for receiving the vertical polarized light, coupling the vertical polarized light and then outputting the coupled vertical polarized light; the optical processing unit is used for receiving the coupled vertical polarized light, processing the coupled vertical polarized light and outputting the processed vertical polarized light; the second coupling unit is used for receiving the processed vertical polarized light, coupling the processed vertical polarized light and then outputting the coupled vertical polarized light outside the optical chip; and the thickness of at least part of the optical transmission waveguide is greater than or equal to 250 nm, so that the transmission loss of the vertical polarized light in the optical chip can be reduced.

[见续页]

WO 2025/139369 A1

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))。

(57) 摘要: 本实用新型揭示一种光发射组件和光模块, 光发射组件包括光输出单元和光芯片; 光输出单元用于输出竖直偏振光; 光芯片沿光信号传播方向通过光传输波导依次连接: 第一耦合单元、光处理单元和第二耦合单元; 第一耦合单元用于接收竖直偏振光, 并将竖直偏振光进行耦合后输出; 光处理单元用于接收耦合后的竖直偏振光, 对耦合后的竖直偏振光进行处理, 并输出处理后的竖直偏振光; 第二耦合单元用于接收处理后的竖直偏振光, 对处理后的竖直偏振光进行耦合后输出至光芯片外; 至少部分光传输波导的厚度大于等于**250nm**, 能够降低竖直偏振光在光芯片内的传输损耗。