

(12) 按照专利合作条约所公布的国际申请

(19) 世界知识产权组织
国际局



(10) 国际公布号
WO 2025/108192 A1

(43) 国际公布日
2025 年 5 月 30 日 (30.05.2025)

(51) 国际专利分类号:
A61B 5/145 (2006.01) *A61B 5/1486* (2006.01)
A61B 5/00 (2006.01)

(21) 国际申请号: PCT/CN2024/132373

(22) 国际申请日: 2024 年 11 月 15 日 (15.11.2024)

(25) 申请语言: 中文

(26) 公布语言: 中文

(30) 优先权:
202323128737.5 2023 年 11 月 20 日 (20.11.2023) CN
202323240976.X 2023 年 11 月 30 日 (30.11.2023) CN

(71) 申请人: 南京晶捷生物科技有限公司
(**EAGLENOS SCIENCES, INC.**) [CN/CN]; 中国江苏省南京市江北新区探秘路 73 号树屋十六栋 B2-2 栋 210044 (CN)。

(72) 发明人: 贺良茂 (**HE, Liangmao**); 中国江苏省南京市江北新区探秘路 73 号树屋十六栋 B2-2 栋 210044 (CN)。彭智远 (**PENG, Zhiyuan**); 中国江苏省南京市江北新区探秘路 73 号树屋十六栋

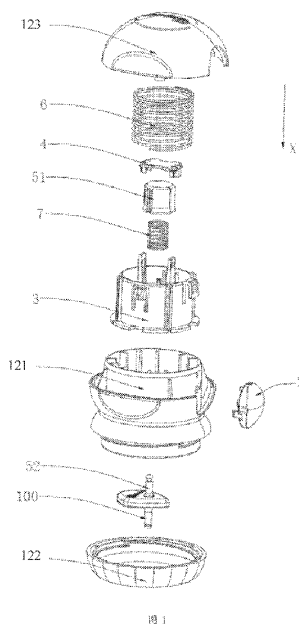
B2-2 栋 210044 (CN)。蔡娅 (**CAI, Ya**); 中国江苏省南京市江北新区探秘路 73 号树屋十六栋 B2-2 栋 210044 (CN)。张建成 (**ZHANG, Jiancheng**); 中国江苏省南京市江北新区探秘路 73 号树屋十六栋 B2-2 栋 210044 (CN)。王佳 (**WANG, Jia**); 中国江苏省南京市江北新区探秘路 73 号树屋十六栋 B2-2 栋 210044 (CN)。

(74) 代理人: 北京品源专利代理有限公司 (**BEYOND ATTORNEYS AT LAW**); 中国北京市海淀区莲花池东路 39 号西金大厦 6 层 100036 (CN)。

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(54) **Title:** NEEDLE-ASSISTING DEVICE, IMPLANTABLE ANALYTE MONITORING DEVICE, AND IMPLANTABLE ANALYTE MONITORING SYSTEM

(54) 发明名称: 助针器、植入式分析物监测装置及植入式分析物监测系统



(57) **Abstract:** Provided are a needle-assisting device, an implantable analyte monitoring device, and an implantable analyte monitoring system. The needle-assisting device comprises a housing assembly, and a needle insertion support, a fixing plate and an implantation needle assembly that are arranged in the housing assembly. The needle insertion support comprises a sleeve, an accommodating groove, and at least two elastic clamping jaws arranged in the sleeve. A groove opening of the accommodating groove and a sleeve opening of the sleeve are oriented away from each other, and the accommodating groove is configured to accommodate a sensor assembly. The needle insertion support is arranged in the housing assembly, such that the needle insertion support can move in a first direction and can be limited to a first position and a second position of the housing assembly. The housing assembly and the needle insertion support can be separated by means of a trigger button on the housing assembly, and a through hole is formed at the bottom of the sleeve. The fixing plate can be locked to the elastic clamping jaws, and the housing assembly enables the separation of the fixing plate from the elastic clamping jaws. The implantation needle assembly comprises a needle base and an implantation needle connected to the needle base. The needle base is circumferentially clamped between the elastic clamping jaws and arranged between the elastic clamping jaws and the bottom of the sleeve, and the needle base can move towards the fixing plate.

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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,
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CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN,
TD, TG)。

本国际公布:

— 包括国际检索报告(条约第21条(3))。

(57) 摘要: 一种助针器、植入式分析物监测装置及植入式分析物监测系统。助针器包括壳体组件、设于壳体组件内的进针支架和固定板以及植入针组件, 进针支架包括套筒、容置槽和设于套筒内的至少两个弹性卡爪, 容置槽的槽口和套筒的筒口背离彼此, 容置槽设置为容置传感器组件, 进针支架设于壳体组件内, 进针支架能够沿第一方向移动且能够限于壳体组件的第一位置和第二位置, 壳体组件上的击发按钮能够使壳体组件和进针支架分离, 套筒的底部设有通孔; 固定板能够与弹性卡爪锁定, 壳体组件能够使固定板与弹性卡爪分离; 植入针组件包括针座和连接于针座的植入针, 针座周向夹设于弹性卡爪之间, 且设于弹性卡爪和套筒的底部之间, 所述针座能够朝向所述固定板移动。