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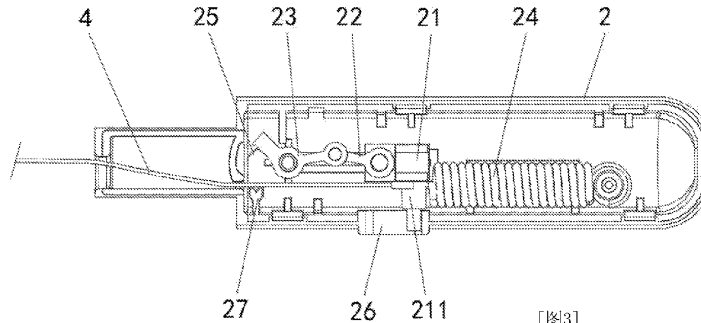
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(54) Title: LIGATION DEVICE CAPABLE OF AUTOMATICALLY CUTTING LIGATURE WIRE

(54) 发明名称: 一种自动切线结扎器



[图3]

(57) Abstract: A ligation device capable of automatically cutting a ligature wire, the ligation device comprising a front-section handle (1), a rear-section handle (2), a catheter assembly, a snare (3) and a ligature wire (4), wherein one end of the catheter assembly is connected to the front-section handle (1), the snare (3) is arranged at the other end of the catheter assembly, and a slit is provided in the inner side of the snare (3); a ligature wire (4) passes through the front-section handle (1) and the catheter assembly; one end of the ligature wire (4) is connected to the rear-section handle (2), and the other end of the ligature wire (4) is a wire loop (41) that is retractable in the forward direction and stops in the reverse direction; the wire loop (41) is pre-assembled in the snare (3); a ligature wire cutting assembly is provided in the rear-section handle (2); and when the rear-section handle (2) is separated from the front-section handle (1) and is pulled backwards, the ligature wire (4) is pulled backwards, such that the wire loop (41) is pulled out of the slit to the inner side of the snare (3) and retracts, and when the ligature wire (4) is pulled backwards to reach a preset tension, the ligature wire cutting assembly automatically cuts the ligature wire (4). A ligation operation is achieved by means of pulling a rear-section handle (2) backwards, and automatic ligature wire cutting is performed at a preset node by means of the ligature wire cutting assembly during the operation process without needing to rely on the visual estimation and hand perception of an operating surgeon and thus the problem of manual operation failure or errors is avoided.

[见续页]

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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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本国际公布:
— 包括国际检索报告(条约第21条(3))。

(57) 摘要: 一种自动切线结扎器, 包括前段手柄(1)、后段手柄(2)、导管组件、圈套器(3)和结扎线(4); 导管组件一端连接前段手柄(1), 圈套器(3)设置于导管组件另一端, 圈套器(3)内侧设有开缝; 结扎线(4)贯穿前段手柄(1)和导管组件, 结扎线(4)一端连接后段手柄(2), 另一端为可正向收缩反向截停的线圈(41), 线圈(41)预装于圈套器(3)内; 后段手柄(2)内设有切线组件, 当后段手柄(2)相对前段手柄(1)分离并后拉时, 带动结扎线(4)向后拉, 以连动线圈(41)从开缝扯出至圈套器(3)内侧并收缩, 同时, 结扎线(4)后拉达到预设拉力时, 切线组件自动切断结扎线(4)。通过后段手柄(2)后拉实现结扎操作, 操作过程中通过切线组件在预设节点进行自动切线, 无需依赖操作医生的目测判断和手部感觉, 避免了人工操作失误或误差的问题。