

(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 2024/212463 A1

(43) 国际公布日
2024 年 10 月 17 日 (17.10.2024)

(51) 国际专利分类号:
B23Q 3/155 (2006.01)

(21) 国际申请号: PCT/CN2023/125310

(22) 国际申请日: 2023 年 10 月 19 日 (19.10.2023)

(25) 申请语言: 中文

(26) 公布语言: 中文

(30) 优先权:
202310379547.6 2023 年 4 月 11 日 (11.04.2023) CN

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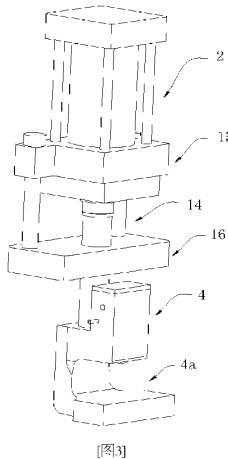
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(54) Title: SELF-LUBRICATING TOOL MAGAZINE TOOL-RELEASING APPARATUS AND DISC TOOL MAGAZINE

(54) 发明名称: 一种自润滑刀库倒刀装置及圆盘刀库



[图3]

(57) Abstract: A self-lubricating tool magazine tool-releasing apparatus and a disc tool magazine. The self-lubricating tool magazine tool-releasing apparatus comprises a tool releasing cylinder (2) and a tool releasing claw (4); the tool releasing claw forms an opening (4a); the opening (4a) is adapted to rollers (3a) at the end portions of tool sleeves (3); the tool releasing cylinder (2) drives the tool releasing claw (4) to reciprocatingly move so as to drive each tool sleeve (3) to turn over and reset; the top of the tool releasing claw (4) is hollow to form a cavity (01); the cavity (01) is arranged in a sealed mode and is located at one side of the opening (4a); a communication groove (03) and a top connection groove (04) are formed between the cavity (01) and the opening (4a); the communication groove (03) communicates the cavity (01) with the sidewall of the top connection groove (04), and a feeding end (03a) and a discharging end (03b) are respectively formed at the two ends of the communication groove; lubricating grease (02) enters the communication groove (03) through the feeding end (03a); a piston (05) is provided in the top connection groove (04) and blocks the discharging end (04); in the process that the tool releasing cylinder (2) drives the tool releasing claw (4) to move downwards to press each roller (3a), the piston moves towards the top connection groove (04) to unblock the discharging end (03b); the lubricating grease (02) can enter the position of the opening through the discharging end (03b) and is coated between the roller (3a) and the tool releasing claw (4). Therefore, the self-lubricating effect of the tool sleeve is achieved in the tool releasing process, and the coating effect is guaranteed.

[见续页]

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))

本国际公布:
— 包括国际检索报告(条约第21条(3))。

(57) 摘要: 一种自润滑刀库倒刀装置及圆盘刀库, 包括: 倒刀气缸(2)和倒刀爪(4), 倒刀爪形成开口(4a), 开口(4a)与刀套(3)端部滚轮(3a)相适应, 倒刀气缸(2)驱动倒刀爪(4)往复运动, 带动刀套(3)翻转和复位; 倒刀爪(4)顶部中空设置, 形成腔体(01), 腔体(01)密封设置, 位于开口(4a)的一侧, 腔体(01)与开口(4a)之间设置有导通槽(03)和顶接槽(04), 导通槽(03)连通腔体(01)与顶接槽(04)的侧壁, 两端分别形成进料端(03a)和出料端(03b), 润滑脂(02)由进料端(03a)进入导通槽(03)中, 顶接槽(04)内设置有活塞(05), 对出料端(04)进行封堵; 在倒刀气缸(2)驱动倒刀爪(4)向下运动而对滚轮(3a)进行挤压的过程中向顶接槽(04)内移动, 解除对出料端(03b)的封堵; 润滑脂(02)能够由出料端(03b)进入开口位置, 涂布于滚轮(3a)与倒刀爪(4)之间, 实现了倒刀过程中刀套的自润滑作用, 保证了涂布效果。