

(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

(43) 国际公布日
2026 年 7 月 9 日 (09.07.2026)



(10) 国际公布号
WO 2026/143435 A1

(51) 国际专利分类号:
A62B 35/00 (2006.01)

(21) 国际申请号: PCT/CN2024/144253

(22) 国际申请日: 2024 年 12 月 31 日 (31.12.2024)

(25) 申请语言: 中文

(26) 公布语言: 中文

(71) 申请人: 雷目科技(香港)有限公司(REMOC (HONG KONG) LIMITED) [CN/CN]; 中国香港湾仔湾仔道228号228 Plaza 7楼701-2室 999077 (CN)。

(72) 发明人: 重光信雄(SHIGEMITSU, Nobuo); 中国广东省深圳市前海深港合作区南山街道听海大道5059号前海鸿荣源中心A座604C 518000 (CN)。张炎怀(ZHANG, Yanhuai); 中国广东省深圳市前海深港合作区南山街道听海大道5059号前海鸿荣源中心A座604C 518000 (CN)。重光悠希(SHIGEMITSU,

Yuki); 中国广东省深圳市前海深港合作区南山街道听海大道5059号前海鸿荣源中心A座604C 518000 (CN)。朴恩兰(PIAO, Enlan); 中国广东省深圳市前海深港合作区南山街道听海大道5059号前海鸿荣源中心A座604C 518000 (CN)。

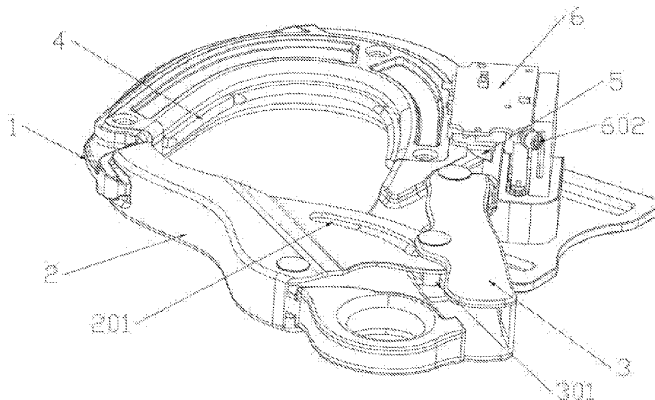
(74) 代理人: 深圳市中云创知识产权代理事务所(普通合伙)(SHENZHEN ZHONGYUNCHUANG INTELLECTUAL PROPERTY AGENCY (GENERAL PARTNERSHIP)); 中国广东省深圳市宝安区新安街道布心社区73区布心K路腾骏科技园A栋215 518000 (CN)。

(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,

(54) Title: INTELLIGENT SAFETY HARNESS HOOK

(54) 发明名称: 一种智能安全带挂钩

[图1]



(57) Abstract: An intelligent safety harness hook, comprising a main body (1), a first movable member (2), a second movable member (3), a first detection device (4), a second detection device (5), and a monitoring device (6). The monitoring device is arranged on one side of the main body; the first movable member is separately movably connected to the main body and the second movable member; a movable end of the first movable member abuts against or moves away from the tail end of the main body and drives the second movable member to move; the first detection device is arranged inside the main body; the second detection device is arranged on the monitoring device; the first movable member is provided with a slide slot (201), the second movable member is provided with a circular pin (301), and the circular pin is movably arranged in the slide slot; and the first movable member drives the second movable member to move along the slide slot and abut against or move away from the second detection device. The first detection device and the second detection device can detect whether the hook is securely attached, the direction of the hook, and whether the hook is closed. The present application has a high level of intelligence, and can monitor the situation of a hook worn by an operator, so as to alert the operator,

WO 2026/143435 A1

[见续页]

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
(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)。

本国际公布:

— 包括国际检索报告(条约第21条(3))。

thereby avoiding the occurrence of safety incidents.

(57) 摘要: 一种智能安全带挂钩, 包括主体(1)、第一活动件(2)、第二活动件(3)、第一检测装置(4)、第二检测装置(5)和监测装置(6); 监测装置设于主体一侧; 第一活动件分别与主体、第二活动件活动连接; 第一活动件的活动端与主体末端抵接或远离, 并带动第二活动件活动; 第一检测装置设于主体内; 第二检测装置设于监测装置上; 第一活动件设有滑槽(201), 第二活动件设有圆柱(301), 圆柱活动设置于滑槽内; 第一活动件带动第二活动件沿滑槽运动, 并与第二检测装置抵接或远离。第一检测装置和第二检测装置能够检测挂钩是否挂住、挂钩方向以及挂钩是否闭合, 智能化程度较高, 能够对作业员的挂钩情况进行监测, 以提醒作业员, 避免安全事故的发生。