

(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 2025/130696 A1

(43) 国际公布日
2025 年 6 月 26 日 (26.06.2025)

(51) 国际专利分类号:
B28D 5/00 (2006.01) **B25B 11/00** (2006.01)
B28D 7/04 (2006.01) **B25B 11/02** (2006.01)

(21) 国际申请号: PCT/CN2024/138057

(22) 国际申请日: 2024 年 12 月 10 日 (10.12.2024)

(25) 申请语言: 中文

(26) 公布语言: 中文

(30) 优先权:
202311751749.5 2023 年 12 月 18 日 (18.12.2023) CN

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IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ,

(54) Title: POSITIONING MECHANISM, AND PROCESSING DEVICE AND POSITIONING METHOD THEREFOR

(54) 发明名称: 定位机构、加工装置以及定位方法

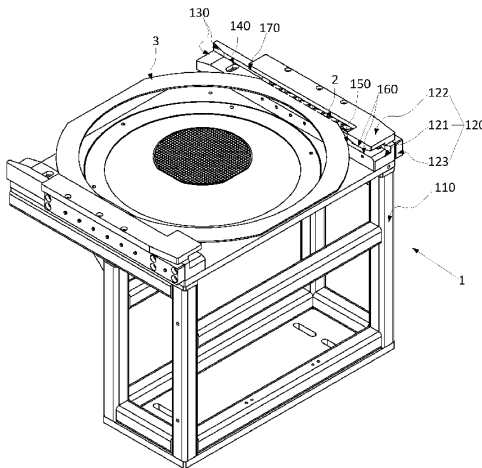


图 1

(57) Abstract: A positioning mechanism, comprising a positioning main body (1) and a plurality of elastic positioning units (2). The positioning main body (1) is provided with an accommodating space for accommodating a member (3) to be positioned, and the accommodating space is provided with an inlet/outlet, which is formed in a side of the positioning main body (1) and is used for the positioned member (3) to enter in or exit therefrom; the plurality of elastic positioning units (2) are arranged in the accommodating space in such a way that same are symmetrically arranged on two sides in the direction of entering/exiting of the inlet/outlet; and each elastic positioning unit (2) comprises a sliding portion and an elastic portion, wherein the sliding portion can be arranged in the accommodating space in a reciprocating and slidable manner, the elastic portion is arranged between the sliding portion and the positioning main body (1), and when the elastic portions apply acting force to the sliding portions, the sliding portions of the symmetrically-arranged elastic

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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,
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positioning units (2) move opposite each other, so as to clamp the positioned member (3) and adjust the position of the positioned member (3). In the positioning mechanism, the positioned member (3) is centrally positioned by means of using symmetrical elastic forces of the elastic positioning units (2) on the two sides, without the need of using electric apparatuses, such as an electric motor, such that the positioning mechanism has a simple structure, a low cost, a small occupied space and a good positioning precision. The present invention further relates to a processing device and a positioning method therefor.

(57) 摘要: 一种定位机构, 包括定位主体(1)及多个弹性定位单元(2), 定位主体(1)具有容置被定位件(3)的容置空间, 容置空间在定位主体(1)的一侧形成有供被定位件(3)进出的出入口, 多个弹性定位单元(2)在出入口出入方向的两侧对称设置于容置空间内, 每个弹性定位单元(2)包括滑动部以及弹性部, 滑动部可往复滑动地设置于容置空间内, 弹性部设置于滑动部与定位主体(1)之间, 在弹性部对滑动部施加作用力的情况下, 对称设置的弹性定位单元(2)的滑动部相向移动, 以夹紧被定位件(3)并调整被定位件(3)的位置, 该定位机构无需借助电机等用电设备, 利用两侧的弹性定位单元(2)对称的弹力实现被定位件(3)的居中定位, 结构简单, 成本低, 占用空间小, 具有良好的定位精度。还涉及一种加工装置以及定位方法。