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(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, 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,

(54) **Title:** SUPERCRITICAL-FLUID DRYING DEVICE

(54) 发明名称: 超临界流体干燥装置

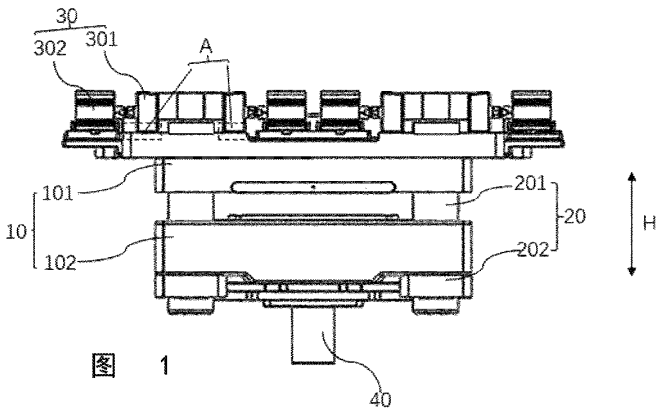


图 1

(57) **Abstract:** Provided in the present invention is a supercritical-fluid drying device, comprising: a cavity, which comprises an upper cavity and a lower cavity, wherein the lower cavity is arranged below the upper cavity and is configured to be suitable for moving relative to the upper cavity in a vertical direction, such that the upper cavity and the lower cavity are closed to form a closed chamber; a connecting assembly and a locking mechanism, wherein the connecting assembly is configured to connect the upper cavity and the lower cavity, and the locking mechanism is configured to lock or release the connecting assembly; and an isolation assembly, which is configured to prevent pollutants generated by the connecting assembly and the locking mechanism from entering the closed chamber when the upper cavity and the lower cavity are closed, and/or prevent the pollutants from entering an open space between the upper cavity and the lower cavity that corresponds to the closed chamber when the upper cavity and the lower cavity are not closed. By means of the provision of the isolation assembly between the connecting assembly and the cavity, the closed chamber being polluted is effectively reduced or even avoided, thereby improving the cleanliness of the closed chamber, improving a process result, and improving the process yield.

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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: 本发明提出了一种超临界流体干燥装置，包括：腔体，腔体包括上腔体和下腔体，下腔体设置于上腔体的下方，且被配置为适于与上腔体沿竖直方向相对运动，使得上腔体和下腔体闭合形成密闭腔室；连接组件和锁紧机构，连接组件用于连接上腔体和下腔体，锁紧机构用于锁紧或松开连接组件；隔离组件，用于在上腔体和下腔体闭合时阻止连接组件和锁紧机构产生的污染物进入密闭腔室，和/或在上腔体和下腔体未闭合时阻止污染物进入上腔体和下腔体之间对应于密闭腔室的开放空间。通过在连接组件与腔体之间设置隔离组件，有效减少甚至避免了密闭腔室被污染，进而提高密闭腔室洁净度，改善工艺结果，提升工艺良率。