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(54) Title: BOX COVER FOR BUTTON TYPE SEALING BOX, AND BUTTON TYPE SEALING BOX

(54) 发明名称: 一种按钮式密封盒的盒盖和按钮式密封盒

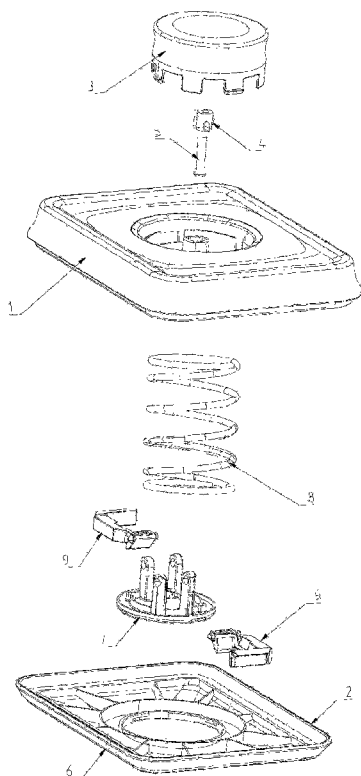


图 1 / FIG.1

(57) Abstract: Disclosed is a box cover (100) for a button type sealing box, comprising an upper cover (1), a lower cover, a dish-shaped sealing ring (2), a button (3), a rotary toothed part (4), a vertical shaft (5) and a lever and spring mechanism. The rotary toothed part (4) comprises a sleeve (401) and N spline teeth (402). The bottom and the top of each spline tooth (402) respectively comprise a helical surface, the upper helical surface (404) and the lower helical surface (403) having opposite rotating directions. The vertical shaft (5) is fixed to the button (3), and the rotary toothed part (4) is rotatably installed at the lower part of the vertical shaft (5). A bottom plate (102) of the upper cover comprises a splined hole (107) with N gullets, a bottom surface of the bottom plate comprises an end-surface gear (104), the end-surface gear (104) comprises 2N end surface teeth, and gullets of the splined hole (107) with N gullets are located at gullet parts of the end surface teeth. The lower cover comprises an end-surface ratchet wheel (705) with 2N ratchets, the ratchets of the end-surface ratchet wheel (705) with 2N ratchets are adapted to the lower helical surfaces (403) of the spline teeth (402), where N is greater than or equal to 3. The box cover of this button type sealing box is convenient to assemble, and has high reliability and stable operation performance. Further disclosed is a button type sealing box comprising such a box cover.

(57) 摘要:

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本国际公布:

— 包括国际检索报告(条约第 21 条(3))。

一种按钮式密封盒的盒盖(100)包括上盖(1)、下盖、碟形密封圈(2)、按钮(3)、转动齿件(4)、立轴(5)和杠杆弹簧机构。转动齿件(4)包括套筒(401)和N个花键齿(402)。花键齿(402)的底部和顶部各包括一个螺旋面,上螺旋面(404)与下螺旋面(403)的旋向相反。立轴(5)固定在按钮(3)上,转动齿件(4)可转动地安装在立轴(5)的下部。上盖底板(102)包括N槽的花键孔(107),底板的底面包括端面齿轮(104),端面齿轮(104)包括2N个端面齿,N槽花键孔(107)的齿槽位于端面齿的齿槽部位。下盖包括一个2N齿的端面棘轮(705),2N齿端面棘轮(705)的棘齿与花键齿(402)下螺旋面(403)相适配,所述的N大于等于3。本按钮式密封盒的盒盖便于组装、可靠性好、操作性能稳定。还公开了一种包括此盒盖的按钮式密封盒。