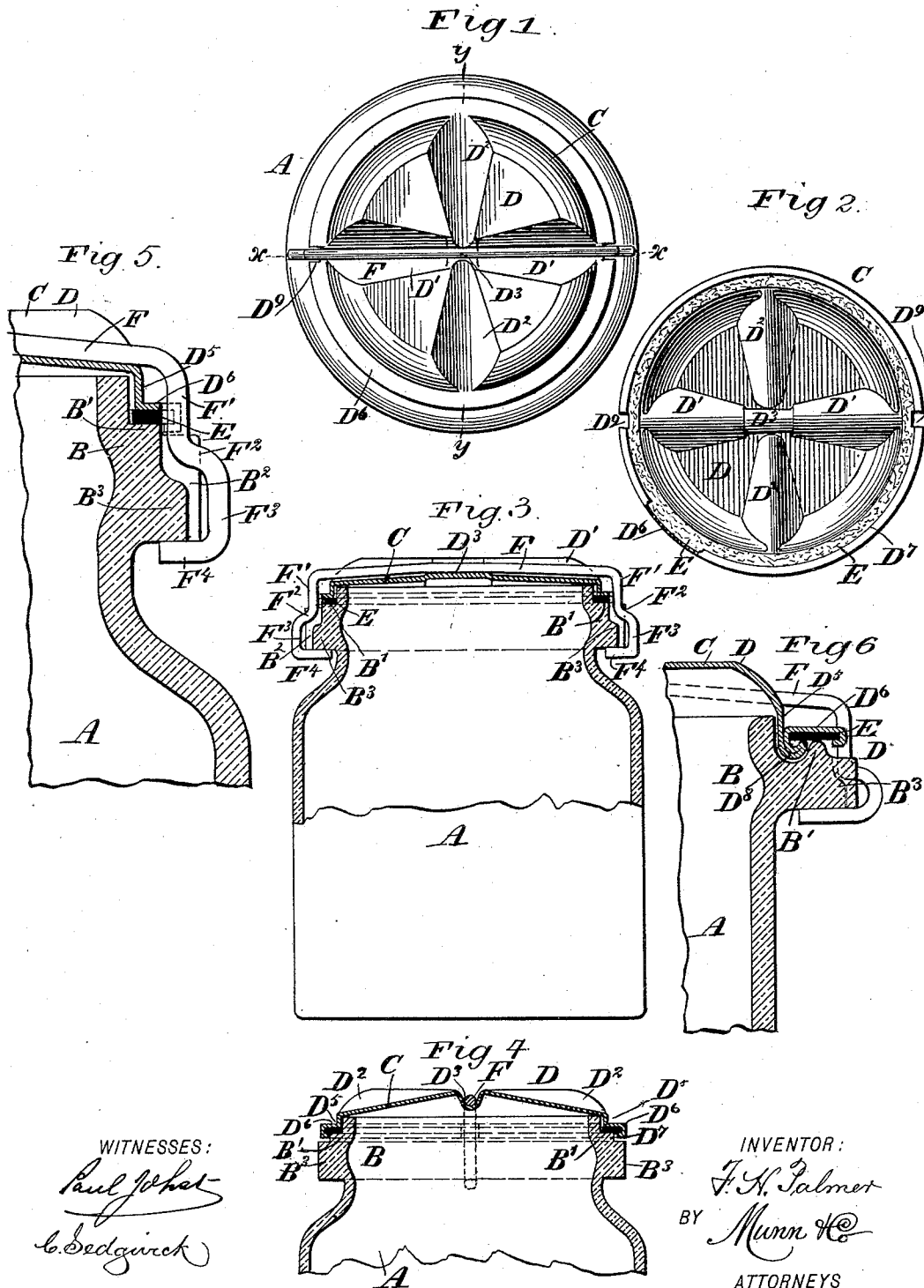


(No Model.)

F. H. PALMER.
JAR COVER AND CLAMP.

No. 462,154.

Patented Oct. 27, 1891.



WITNESSES:

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FRANK H. PALMER, OF BROOKLYN, NEW YORK.

JAR COVER AND CLAMP.

SPECIFICATION forming part of Letters Patent No. 462,154, dated October 27, 1891.

Application filed March 14, 1891. Serial No. 385,000. (No model.)

To all whom it may concern:

Be it known that I, FRANK H. PALMER, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Fastener, of which the following is a full, clear, and exact description.

The invention relates to fasteners for holding covers of jars, cans, &c., in place.

The object of the invention is to provide a new and improved fastener which is simple and durable in construction, securely holds the cover in place on the mouth of the jar or can, prevents displacement of the packing, and can be readily opened when desired without spoiling the fastener, thus permitting of reusing the device.

The invention consists of certain parts and details and combinations of the same, as will be hereinafter fully described, and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view of the improvement. Fig. 2 is an inverted plan view of the cover with the packing in place and part in section. Fig. 3 is a sectional side elevation of the improvement on the line *xx* of Fig. 1. Fig. 4 is a transverse section of the same on the line *yy* of Fig. 1. Fig. 5 is an enlarged sectional side elevation of part of the improvement, and Fig. 6 is a like view of a modified form of the same.

The jar or can A is provided with the neck or mouth B, adapted to be closed by a cover C, provided in its center with a raised portion D, formed with diametrically-extending grooves D' and D², pressed into the said raised portion and having their bottoms inclined downwardly and outwardly, as is plainly illustrated in Figs. 3 and 4. At the junction of the grooves D' and D² is formed in the groove D' a straight part D³, the lower or outer ends of the said grooves terminating at a downwardly-extending annular flange D⁵, passing loosely around the outer sides of the neck or mouth B, as is plainly illustrated in Figs. 3, 4, 5, and 6. From this vertical flange D⁵ extends outward a horizontal and annular flange D⁶, on the under side of which is held the packing-ring E, made of paper or other suit-

able material and resting with its under side on an annular projection B', formed on the outside of the neck or mouth B.

The packing-ring E is secured to the cover C by bending the outer part of the horizontal flange D⁶ downward and inward under the underside of the packing-ring E, near its outer edge, as is plainly shown in Figs. 4 and 6. This doubled-up part D⁷ of the flange D⁶ is outside of the annular projection B', so as not to touch the latter. If desired, the inner edge of the packing-ring E may be fastened onto the cover by doubling up the lower part of the vertical flange D⁵, as is plainly shown in Fig. 6. This doubled-up part D⁸ engages the under side of the ring E near its inner edge, and passes into a recess formed in the annular projection B', so that only the middle part of the packing-ring E is in contact with the raised portion of the annular flange B', as is plainly illustrated in the said Fig. 6. Through the diametrical groove D' passes a bail F, which rests with its middle part on the straight part D³ of the cover D, as is plainly shown in the drawings.

The outer ends of the bail F are bent downward to form the parts F', which extend through notches D⁹ formed in the annular horizontal flange D⁶ of the cover D. The lower ends of the parts F' are bent outward, as at F², and extend into vertical slots B², formed diametrically opposite each other in a second annular projection B³, formed on the outside of the mouth or neck B directly below the annular projection B'. The bent parts F² of the bail F are bent downward to form a straight part F³, the inner sides of which extend beyond the outer surface of the annular projection B³, so as to permit of inserting a knife or other instrument between the said part F³ and the outer surface of the projection B³ to unfasten the cover, as hereinafter more fully described.

From the lower ends of the parts F³ extend inwardly the lugs F⁴, adapted to engage the under side of the annular projection B³, so as to lock the cover C onto the neck or mouth B of the can or jar A. The upper part of each vertical slot B² is somewhat deeper than the lower part to conform to the bend F² and prevent the downwardly-extending parts F⁷, F², and F³ from coming in contact

with the inner walls of the said vertical slots or grooves.

When the cover C is disengaged from the jar A the packing-ring E is held firmly in place on the inside of the said cover, so that when the latter is placed over the mouth or neck of the jar or can A the said packing-ring readily seats itself on the top of the annular projection B'. The bail F in its normal position extends about horizontally, so that the lugs F⁴ rest in the slots B², and when the operator now desires to fasten the cover to the mouth or neck of the jar B he presses onto the outer ends of the said bail, so that the lug F⁴ moves downward in the slots B² to finally snap under the bottom of the annular projection B³, thus securely locking the cover C onto the mouth or neck of the jar or can A. In placing the cover C onto the neck of the jar it is necessary that the diametrical groove D', containing the bail F, as well as the notches D⁹, are in line or register with the vertical grooves B² of the annular projection B³, so that the downwardly-extending parts of the bail with the lug F⁴ engage the said grooves or slots B².

When the cover C is locked onto the jar, as is described above, then a displacement or turning of the cover on the neck of the jar is impossible, as the downwardly-extending parts F' engage the notches D⁹ of the cover C, and the bent parts F² engage the side walls of the grooves or slots B² of the annular projection B³. By the pressure on the ends of the bail F a pressure is exerted onto the cover C, so that the annular flange D⁶ of the said cover firmly presses onto the packing-ring E, so that the latter is well seated on the top of the annular projection B', thereby preventing any leakage or spilling of the contents of the jar. The jar is thus rendered perfectly air-tight.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. A jar-cover having an annular depending flange D⁵ and an annular horizontal flange D⁶, projecting outward from the flange D⁵, bent downward and inward at its periphery

to form a packing-groove, substantially as set forth.

2. A jar-cover having an annular depending flange D⁵, an annular horizontal flange D⁶, projecting outward from the flange D⁵ and bent downward and inward at its periphery to form a groove to support a packing-ring near its outer edge, and the doubled-up portion D⁸ at the juncture of the two said flanges D⁵ D⁶, to support the packing near its inner edge, substantially as set forth.

3. A jar-cover grooved transversely across its top and formed with the vertical and horizontal flanges D⁵ D⁶, the periphery of the flange D⁶ being bent downward and inward to form a groove to receive the outer edge of a packing-ring, and notches D⁹ in the outer edge of flange D⁵, substantially as set forth.

4. A jar-cover grooved transversely across its top and formed with the vertical and horizontal flanges D⁵ D⁶, the latter being turned under at its periphery to form a groove, a flat packing-ring under the flange D⁶ and supported at its outer edge in said groove, the notches D⁹, and the fastening F, extending through said groove and having depending ends extending through said notches and turned inward, as at F⁴, at their lower ends, substantially as set forth.

5. The combination, with a jar or can provided with two external annular projections located one above the other, of a cover adapted to close the mouth of the jar and formed with an annular flange, a packing-ring held on the under side of the cover-flange by a doubled-up edge of the latter, the said ring being arranged to seat itself on the uppermost of said projections of the jar or can, and a bail held on the said cover and formed with downward parts or arms and lugs, the said parts extending through grooves in the lowermost projection of the jar or can, and the said lugs being adapted to engage the bottom of the said lowermost projection, substantially as shown and described.

FRANK H. PALMER.

Witnesses:

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