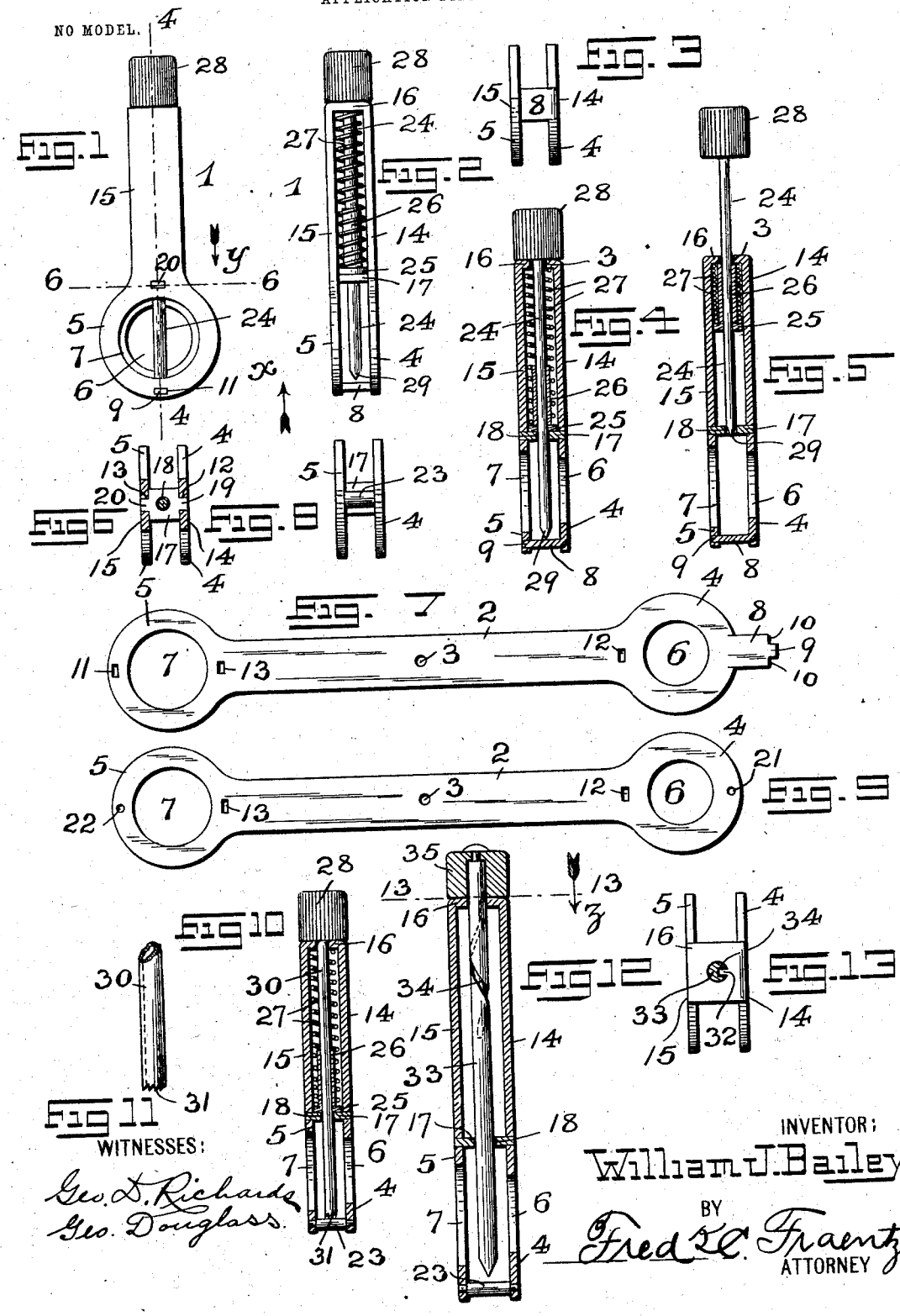
No. 729,715. PATENTED JUNE 2, 1903.

W. J. BAILEY.

CIGAR PIERCER.

APPLICATION FILED NOV. 6, 1902.

NO MODEL.



WITNESSES:

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No. 729,715. Patented June 2, 1903.

UNITED STATES PATENT OFFICE.

WILLIAM J. BAILEY, OF NEWARK, NEW JERSEY.

CIGAR-PIERCER.

SPECIFICATION forming part of Letters Patent No. 729,715, dated June 2, 1903.

Application filed November 6, 1902. Serial No. 130,224. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM J. BAILEY, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Cigar-Piercers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to figures of reference marked thereon, which form a part of this specification.

The present invention relates generally to improvements in that class of devices used for the piercing of the closed or pointed ends of cigars; and the invention has for its primary objects to provide a cheap, simple, and neatly-constructed device which can be readily manipulated for the purpose of producing a perforation extending laterally through the body of the cigar near the closed and pointed end portion without the necessity of cutting away a portion of the drawing end of the cigar and still permitting a free draft through the cigar to keep it perfectly lighted while smoking.

The invention consists in the novel construction of cigar-piercing device hereinafter set forth; and, furthermore, the invention consists in the various novel arrangements and combinations of parts, as well as in the details of the construction thereof, all of which will be more fully described in the following specification and then finally embodied in the clauses of the claim.

The invention is clearly illustrated in the accompanying drawings, in which—

Figure 1 is a face view, and Fig. 2 a side view, of a cigar-piercing device embodying the principles of this invention. Fig. 3 is an end view of the device looking in the direction of the arrow *x*, and Fig. 4 is a longitudinal vertical section taken on line 4 4 in said Fig. 1. Fig. 5 is a similar view of the cigar-piercing device, illustrating the piercing shank or needle in its withdrawn position prior to being forced into and through the end portion of a cigar. Fig. 6 is a transverse section taken on line 6 6 in Fig. 1 looking in the direction of the arrow *y* in said figure. Fig. 7 is a representation of a blank of sheet metal from which the main frame of the cigar-piercing device represented in said Figs. 1 to 6, inclusive, is produced. Fig. 8 is an end view similar to that represented in said Fig. 3, but representing the side pieces of the device connected by means of a rivet or cylindrical post instead of the plate-like member in said Fig. 3; and Fig. 9 is a representation of a blank of sheet metal from which the main frame or body of the device illustrated in said Fig. 8 when provided with such rivet or cylindrical post is formed. Fig. 10 is a longitudinal vertical section of a cigar-piercing device made according to the principles of my present invention, but in which I employ a tubular piercing-pin having saw-teeth instead of the pointed and flat-sided end portion of the piercing-pin represented in said Figs. 2, 4, and 5. Fig. 11 is a detail view of the lower portion of the said piercing-pin represented in said Fig. 10, the said view being made on an enlarged scale. Fig. 12 is a longitudinal vertical section of still another modified form of cigar-piercing device; and Fig. 13 is a transverse section of the same, taken on line 13 13 in said Fig. 12, and looking in the direction of the arrow *z* in said figure.

Similar characters of reference are employed in all of the said hereinabove-described views to indicate corresponding parts.

Referring now to the several figures of the drawings, the reference character 1 indicates the complete cigar-piercing device, the same being made from a blank 2 of sheet metal. (Indicated in Fig. 7.) As will be noticed from said Fig. 7, this blank 2 is of comparatively narrow width, being provided with a centrally-disposed hole 3 and the ring-shaped enlargements 4 and 5 at its respective ends. The enlargement 4 is provided with a circular receiving-opening 6, and the enlargement 5 is likewise made with an opening 7, but the last-mentioned opening being preferably of a greater diameter than the opening 6. The said enlargement 4 is also provided with a longitudinally-extending arm or other suitable member, as 8, having a teat or projection 9 and the shoulders or offsets 10. The enlargement 5 is provided with a suitably-disposed opening 11, into which the said teat or projection 9 is fitted and clenched or riv-

eted over against the outer face of the said enlargement 5 in the manner and for the purposes to be presently more particularly specified. The said blank 2 is also provided with other holes or openings 12 and 13. By means of a suitable tool the said blank 2 of sheet metal is bent into the shape represented in the various figures of the drawings, so as to provide a main body or frame consisting of a pair of parallel or approximately parallel side pieces 14 and 15 and the connecting bearing member 16. At the same time the arm 8 has been bent at a right angle, or approximately so, to the said side piece 14 and its teat or projection 9 has been passed through the oppositely-placed opening 11 in the enlargement 5 of the side piece 15 and clenched or riveted down, so that the inner surface of said enlargement 5 bears firmly upon the said shoulders or offsets 10 of the arm 8. In this manner the said blank 2 has been formed into a complete frame, with the openings 7 and 6 in the respective enlargements 5 and 4 being located directly opposite each other, as clearly illustrated. Prior to the insertion of the said teat or projection 9 into the hole 11 a plate 17, provided with a bearing 18 and the oppositely-located lugs or ears 19 and 20, is secured between the said side pieces 14 and 15 by having the respective ears 19 and 20 placed in the respective and now oppositely-located holes 12 and 13 in the blank 2 and then clenched or riveted, as will be clearly understood from an inspection of Fig. 6.

If desired, I may dispense with the use of the arm 8, connected with the enlargement 4, as indicated in Fig. 9, the said enlargement 4 in that case being provided with a perforation or hole 21, and the enlargement 5 having a perforation or hole 22. When this form of blank has been bent into shape to provide the main frame or body of the device, a rivet or other cylindrical body, as 23, (see Fig. 8,) is placed between the said oppositely-arranged enlargements, the said rivet or body 23 having its ends inserted in the said perforations or holes 21 and 22 and then clenched or riveted over, as will be clearly evident. The main frame or body of the cigar-piercing device having thus been made, a piercing-pin 24 is passed through the bearing 3 in the bearing member 16 and the bearing 18 in the plate 17, the said pin having secured thereon a small washer or ring 25 and a tubular collar 26, the said parts being securely fixed in their proper positions upon the shank of the pin 24 during the assembling of all the parts. A coiled spring 27 is arranged on that portion of the shank of the piercing-pin 26 between the washer or ring 25 and the inner surface of the bearing member 16, as clearly illustrated. The tendency of the spring 27 is to normally force the said piercing-pin 24 in its relatively closed position in the main body or frame of the device, with its piercing end portion located directly between the two enlargements 4 and 5 and across their openings 6 and 7. The said piercing-pin 24 is provided upon its outer end with a suitably-constructed knob or finger-piece 28 and has a drill-shaped piercing-point 29.

In lieu of a solid shank for the pin 24 I may use a tubular shank 30, which is provided at its one end with suitably-disposed cutter or saw teeth 31. The general arrangement of this form of piercing-pin with the remaining parts of the device is clearly represented in Fig. 10 of the drawings, and in general is the same as that described in connection with Figs. 1 to 9, inclusive.

The use of the device for piercing the pointed or drawing end of a cigar is briefly as follows: The piercing-pin 24 is first drawn out by means of its finger-piece 28 from its normally closed and inoperative position to the position represented in Fig. 5, whereby the coils of the spring 27 are compressed, the collar 26 limiting the outward movement of the pin 24 to prevent its displacement from the bearing 18 in the plate 17 and also to prevent undue compression of the coils of the spring, which might render the device inoperative. The pointed or drawing end of a cigar is then passed through the larger opening 7 in the enlargement 5 until its closed and pointed end extends through the opening 6 in the enlargement 4. Then by slightly twirling the finger-piece 28 of the piercing-pin 24 between the finger and thumb the drill-shaped or cutting end of the said piercing-pin is forced laterally through the cigar and when withdrawn a perfect hole or duct will be the result in the body of the cigar. This duct or hole extends from side to side of the cigar and permits of the proper draft through the cigar without the necessity of cutting away the pointed and closed end of the cigar.

Instead of using the piercing-pins 24 and 30, hereinabove described, and instead of the spring 27 the piercing-pin and parts may be arranged as indicated in Figs. 12 and 13. In this construction the member 16 of the main frame or body of the device is made with a slight projection or teat 32, which extends into the bearing 3, as shown in Fig. 13, the piercing-pin 33 in this case being made with a helical groove 34, into which said teat or projection 32 extends when the grooved portion of said pin is arranged in the said bearing 3. The finger-piece or knob 35 upon the free end of the said piercing-pin 33 is in this instance rotatively connected with the said pin, as shown, whereby when the said pin is pushed in and out a free rotary cutting or piercing operation of the pin 33 is permitted while the knob or finger-piece is held between the fingers.

From the above description of my novel cigar-piercing device it will be seen that I have devised a simple, cheap, as well as a useful device, which can be easily manipu-

lated and when not in use can be carried in the pocket without danger of cutting or piercing the material of which the pocket is made.

I am fully aware that various changes may be made in the several arrangements and combinations of the parts without departing from the scope of this invention. Hence I do not limit my invention to the exact arrangements and combinations of the parts as described in the previous specification and as illustrated in the accompanying drawings, nor do I confine myself to the exact details of the construction of the said parts.

Having thus described my invention, what I claim is—

1. A cigar-piercer consisting, essentially, of a pair of flat and parallel side pieces and a connected bearing member between said side pieces, said side pieces being provided with oppositely-located cigar-end-receiving openings into either of which the end of a cigar can be inserted so as to arrange a cigar at right angles to either of the said side pieces, and a piercing-pin rotatively arranged in said bearing member and extending directly between the parallel side pieces, said pin being adapted to pierce the cigar from the side and at right angles to the longitudinal axis of the cigar, substantially as and for the purposes set forth.

2. A cigar-piercer consisting, essentially, of a pair of flat and parallel side pieces and a connected bearing member between said side pieces, said side pieces being provided with oppositely-located cigar-end-receiving openings into either of which the end of a cigar can be inserted so as to arrange a cigar at right angles to either of the said side pieces, and a spring-actuated piercing-pin rotatively arranged in said bearing member and extending directly between the parallel side pieces, said pin being adapted to pierce the cigar from the side and at right angles to the longitudinal axis of the cigar, substantially as and for the purposes set forth.

3. In a cigar-piercer for piercing a perforation in the side of a cigar, a main frame comprising a pair of side pieces, a connecting bearing member, and a second bearing-plate between said side pieces, all combined with a piercing-pin rotatively arranged in the said bearings, substantially as and for the purposes set forth.

4. In a cigar-piercer for piercing a perforation in the side of a cigar, a main frame, comprising a pair of side pieces, a connecting bearing member, and a second bearing-plate between said side pieces, all combined with a spring-actuated piercing-pin rotatively arranged in the said bearings, substantially as and for the purposes set forth.

5. In a cigar-piercer for piercing a perforation in the side of a cigar, a main frame, comprising a pair of side pieces, a connecting-plate between said side pieces, all combined with a piercing-pin rotatively and slidably arranged in the said bearings, and means on said pin to limit the sliding movement thereof, substantially as and for the purposes set forth.

6. In a cigar-piercer for piercing a perforation in the side of a cigar, a main frame, comprising a pair of side pieces, a connecting bearing member, and a second bearing-plate between said side pieces, all combined with a spring-actuated piercing-pin rotatively arranged in said bearings, and a collar and sleeve on said pin, and a spring on said pin between the collar and the inner surface of the connecting bearing member, substantially as and for the purposes set forth.

7. In a cigar-piercer for piercing a perforation in the side of a cigar, a main frame made from a blank of sheet metal having enlarged ends provided with openings, said blank being bent to provide a pair of side pieces and a connecting bearing member, and a second bearing-plate between the said side pieces, all combined with a piercing-pin rotatively arranged in said bearings, substantially as and for the purposes set forth.

8. In a cigar-piercer for piercing a perforation in the side of a cigar, a main frame made from a blank of sheet metal having enlarged ends provided with openings, said blank being bent to provide a pair of side pieces and a connecting bearing member, and a second bearing-plate between the said side pieces, all combined with a spring-actuated piercing-pin rotatively arranged in the said bearings, substantially as and for the purposes set forth.

9. In a cigar-piercer for piercing a perforation in the side of a cigar, a main frame made from a blank of sheet metal, having enlarged ends provided with openings, said blank being bent to provide a pair of side pieces and a connecting bearing member, and a second bearing-plate between the said side pieces, all combined with a piercing-pin rotatively and slidably arranged in the said bearings, and means on said pin to limit the sliding movement thereof, substantially as and for the purposes set forth.

10. In a cigar-piercer for piercing a perforation in the side of a cigar, a main frame made from a blank of sheet metal, having enlarged ends provided with openings, said blank being bent to provide a pair of side pieces and a connecting bearing member, and a second bearing-plate between the said side pieces, all combined with a piercing-pin rotatively and slidably arranged in the said bearings, a collar and sleeve on said pin, and a spring on said pin between the collar and the inner surface of the connecting bearing member, substantially as and for the purposes set forth.

11. The herein-described cigar-piercer for piercing a perforation in the side of a cigar, consisting, essentially, of a main frame made from a blank of sheet metal, having enlarged ends provided with openings, said blank be-

ing bent to provide a pair of side pieces, and a connecting bearing member, an arm connected with one end of said enlarged ends, and a teat on said arm adapted to be secured in an opening formed in the other enlarged end of said blank, a second bearing-plate between the said side pieces, and a piercing-pin rotatively arranged in the said bearings, substantially as and for the purposes set forth.

12. The herein-described cigar-piercer for piercing a perforation in the side of a cigar, consisting, essentially, of a main frame made from a blank of sheet metal, having enlarged ends provided with openings, said blank being bent to provide a pair of side pieces and a connecting bearing member, an arm connected with one of said enlarged ends, and a teat on said arm adapted to be secured in an opening formed in the other enlarged end of the said blank, a second bearing-plate between the said side pieces, and a piercing-pin rotatively and slidably arranged in the said bearings, a collar and sleeve on said pin, and a spring on said pin between the collar and the inner surface of the connecting bearing member, substantially as and for the purposes set forth.

In testimony that I claim the invention set forth above I have hereunto set my hand this 5th day of November, 1902.

WILLIAM J. BAILEY.

Witnesses:
FREDK. C. FRAENTZEL,
GEO. D. RICHARDS.