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J. A. CHAPLIN.

CUFF PIN.

APPLICATION FILED MAR. 4, 1908.

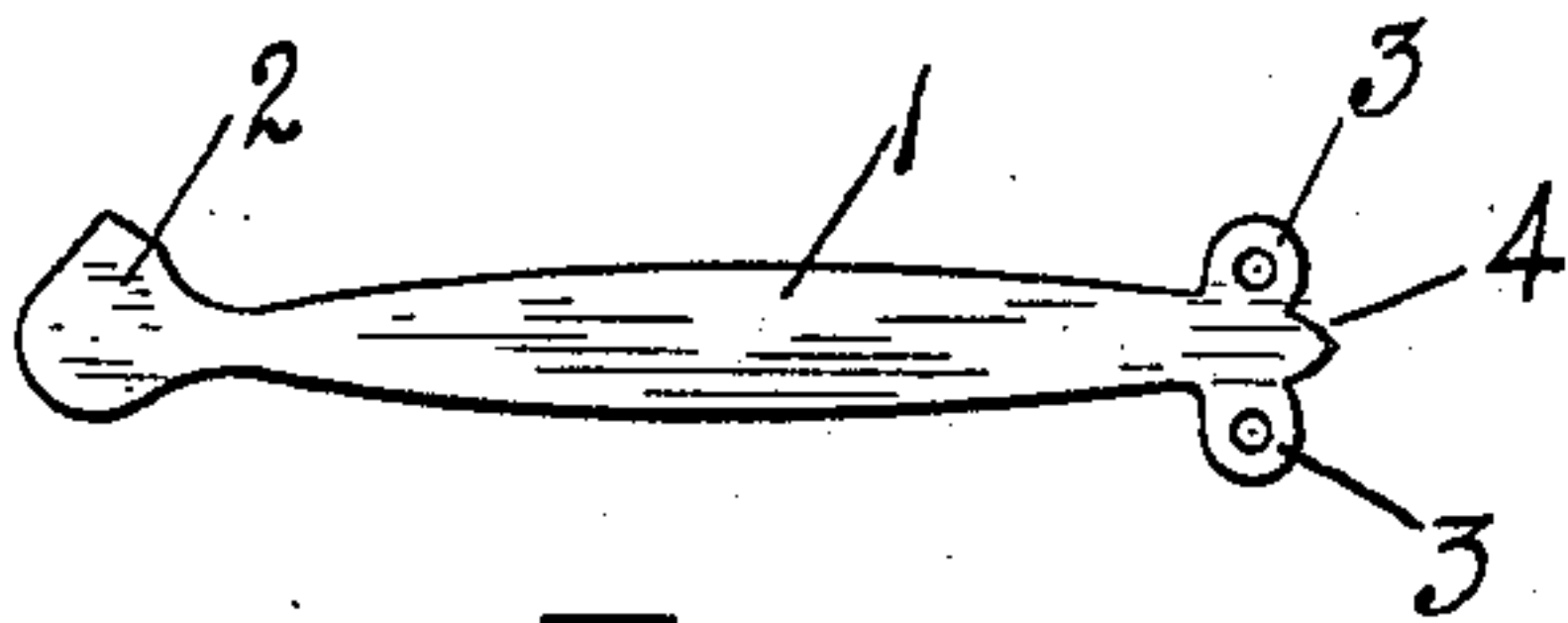


FIG. 1.

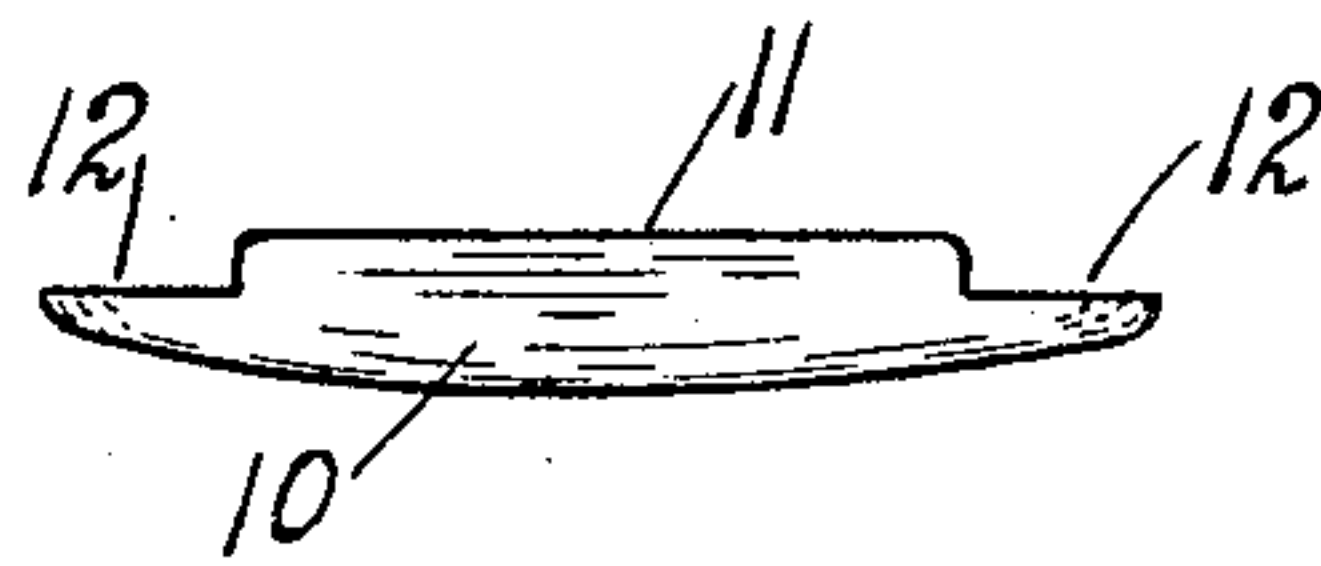


FIG. 2.

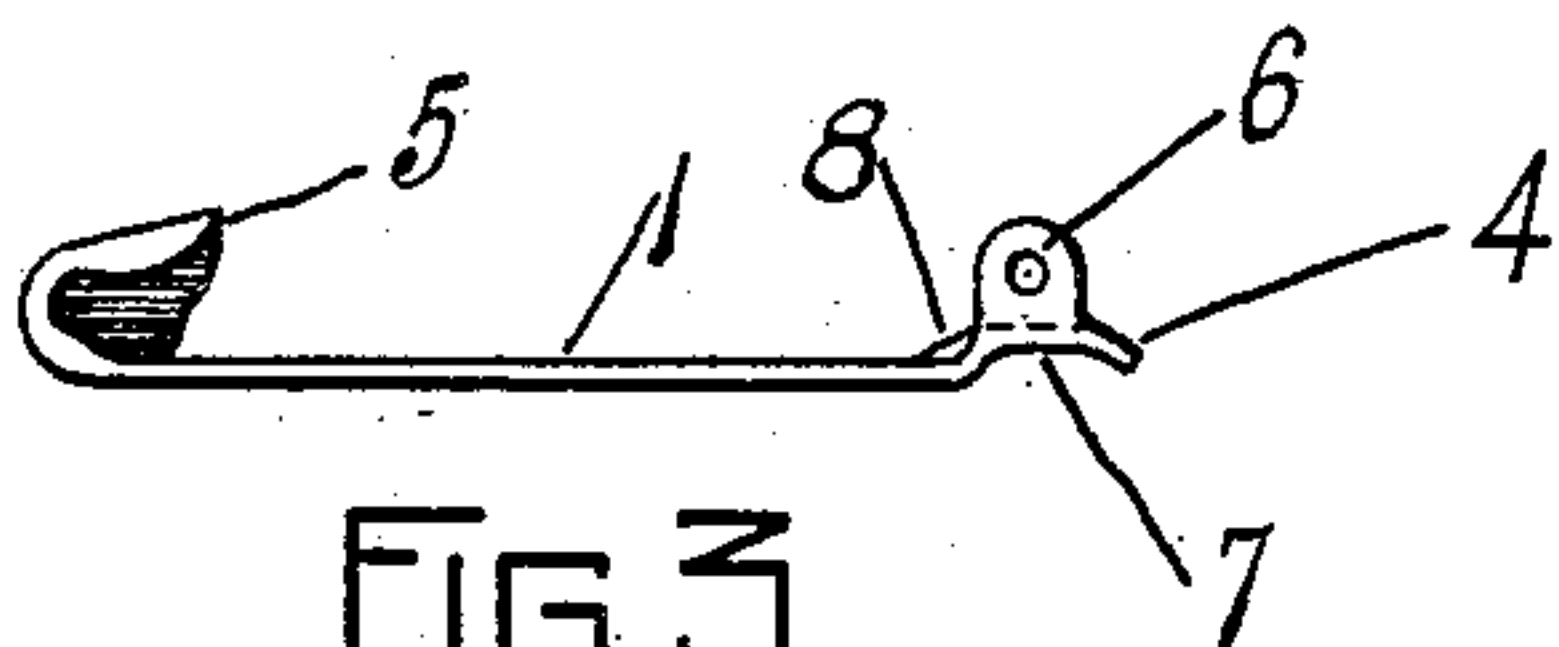


FIG. 3.

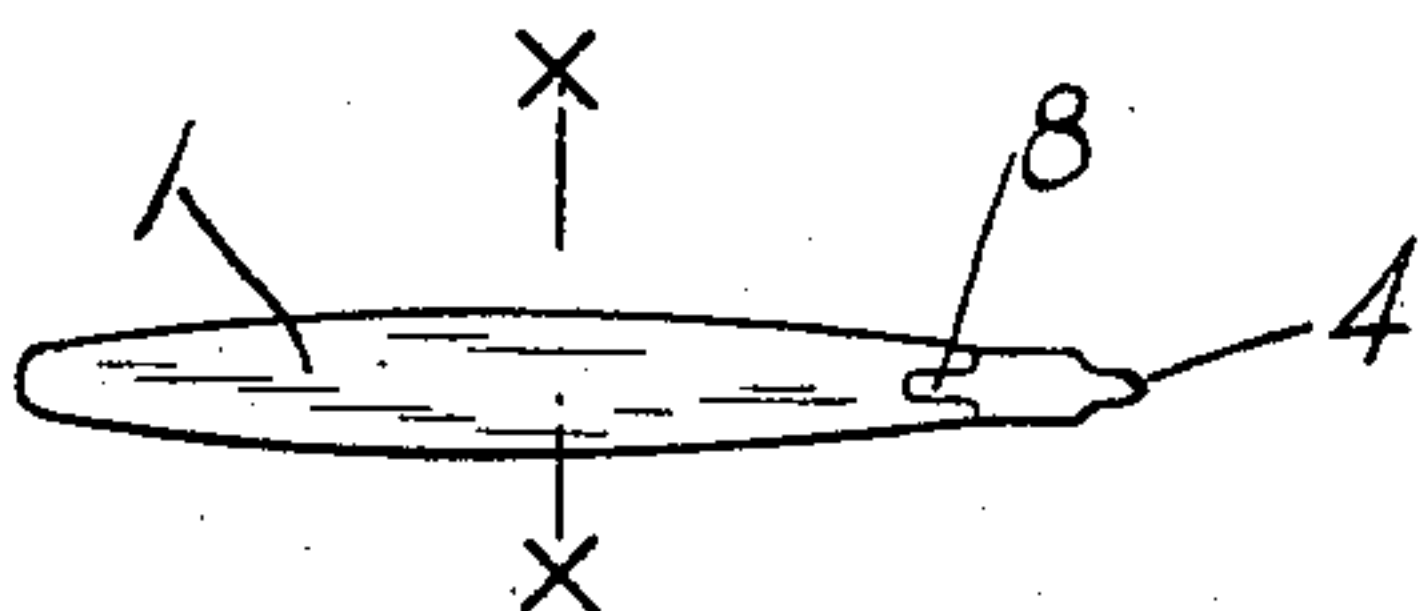


FIG. 4.

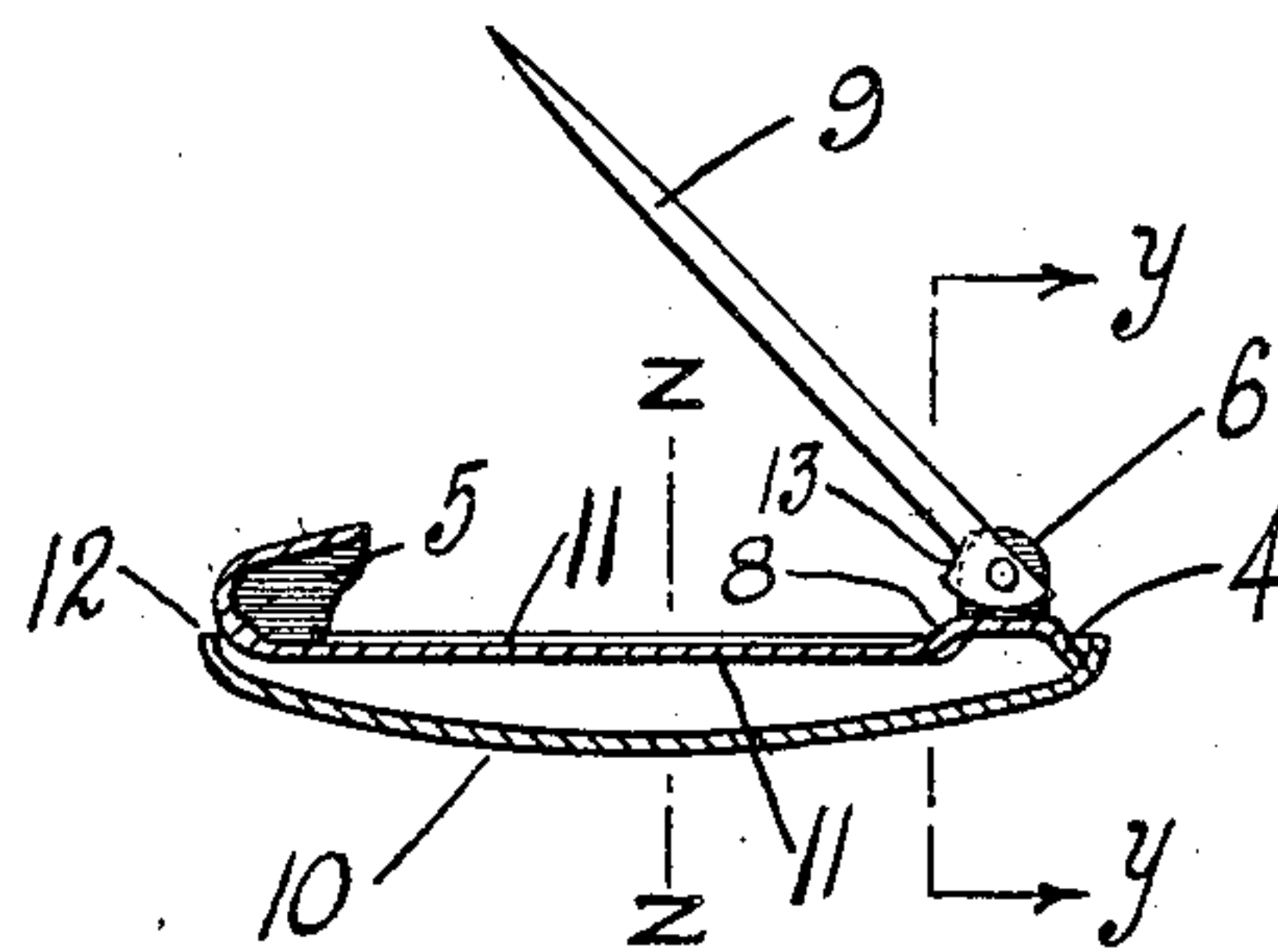


FIG. 5.



FIG. 6.

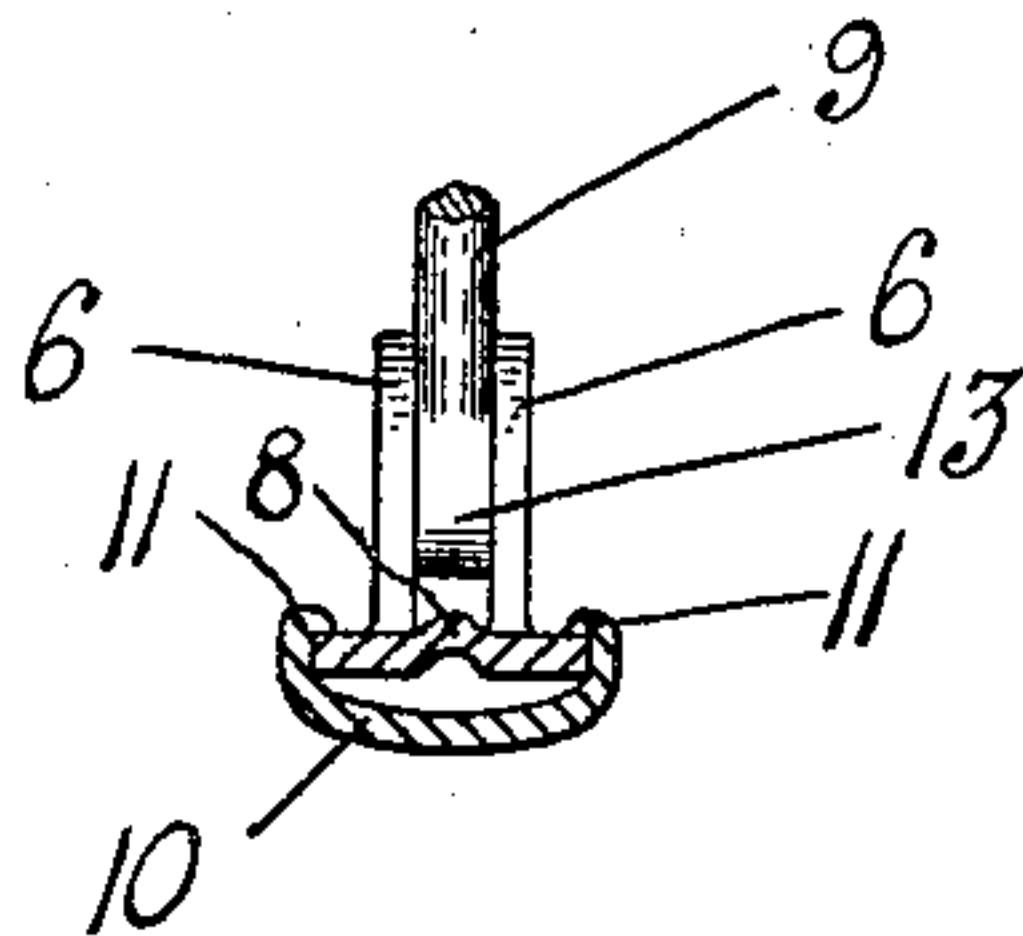


FIG. 7.

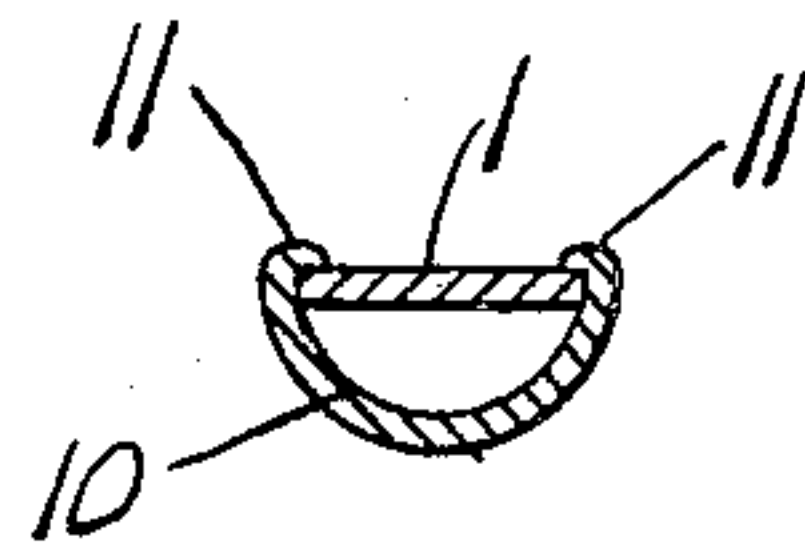


FIG. 8.

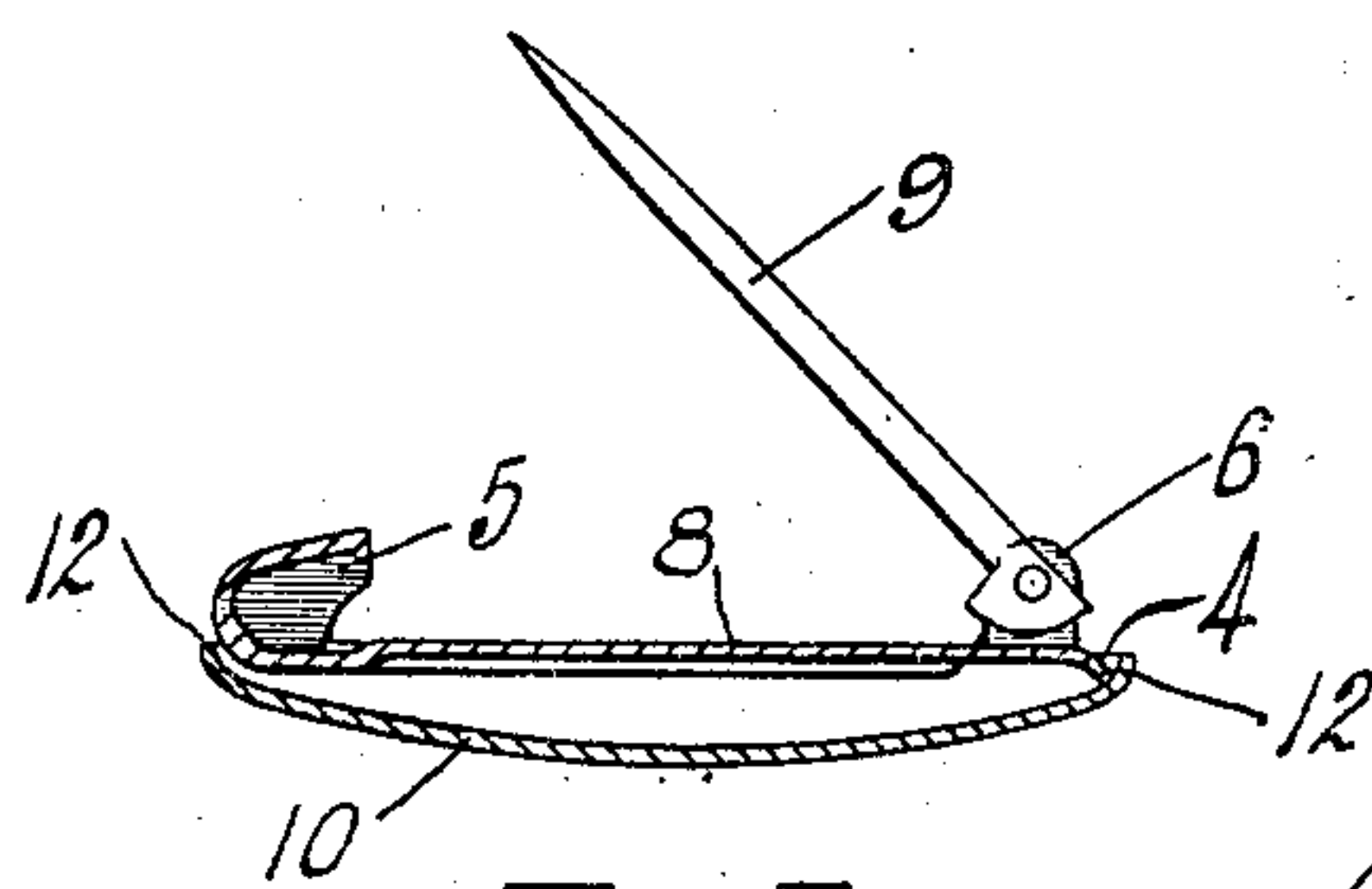


FIG. 9.

WITNESSES.

C. G. Bradley.  
J. H. Thurston.

INVENTOR.

John A. Chaplin,  
By Wilmarth L. Thurston,  
ATTORNEY.

# UNITED STATES PATENT OFFICE.

JOHN A. CHAPLIN, OF WARWICK, RHODE ISLAND, ASSIGNOR TO WAITE THRESHER COMPANY,  
OF PROVIDENCE, RHODE ISLAND, A CORPORATION OF RHODE ISLAND.

## CUFF-PIN.

No. 897,348.

Specification of Letters Patent.

Patented Sept. 1, 1908.

Application filed March 4, 1908. Serial No. 419,133.

*To all whom it may concern:*

Be it known that I, JOHN A. CHAPLIN, of Warwick, county of Kent, and State of Rhode Island, have invented certain new and useful Improvements in Cuff-Pins; and I do hereby declare the following specification, taken in connection with the accompanying drawings, forming a part of the same, to be a full, clear, and exact description thereof.

The invention relates to those articles of jewelry which are known as cuff-pins and has for its object to provide a pin of this character with means for strengthening the body portion of the back of the pin at the point where the greatest strain comes in the operation of the pin-tongue.

To that end the invention consists in the novel construction and combination of elements hereinafter described and claimed, reference being made to the accompanying drawings in which

Figure 1 is a plan view of a blank stamped out of a sheet of metal from which the back portion of my improved cuff-pin is formed. Fig. 2 is a side elevation of the front or ornamental portion. Fig. 3 is a side elevation of the back portion in its completed form. Fig. 4 is a plan view of the underside of said back portion. Fig. 5 is a central longitudinal section of the completed pin. Fig. 6 is a section on line  $x-x$ , Fig. 4, on an enlarged scale. Fig. 7 is a section on line  $y-y$ , Fig. 5, on an enlarged scale. Fig. 8 is a section on line  $z-z$ , Fig. 5, on an enlarged scale. Fig. 9 is a central longitudinal section of a modified construction.

Referring to the drawings, 1 represents the blank from which the back portion of the cuff-pin is formed, said blank being stamped out from a strip of sheet metal by means of a suitable die and plunger. The blank 1 is provided at one end with an enlargement 2 and at the other end with two oppositely disposed lateral ears or extensions 3 and the short tail-piece 4, all as shown in Fig. 1. The blank 1, after it has been stamped from the sheet stock, is operated upon by a suitable die and plunger, which operation rolls over the enlargement 2 to form the pin-catch

5. In the same operation the lateral ears 3 are bent up to form the hinge members 6, and the end portion of blank 1, which lies beneath said hinge-members 6 is bent upward above the level of the body portion of said blank and the tail-piece is bent downward,

thereby forming the bearing portion 7, all as shown in Fig. 3. Adjacent the hinge-members 6 and in line with the longitudinal axis of the blank 1 is a short inclined rib or corrugation 8 for a purpose to be hereinafter described. Mounted in the hinge-members 6 is a suitable pin-tongue 9.

The front or ornamental portion of the pin consists of an elliptical cup-shaped member 10, the sides of which are higher throughout their central portions 11 than at their end portions 12, as shown in Fig. 2. In assembling the two parts of the pin the back portion in its completed form, shown in Fig. 3, is placed within the cup-shaped front portion 10, and the central portions 11 of the sides of said front portion are rolled over and their edges clamped tight against the outer surface of the body portion of the blank 1, as shown in Figs. 5 and 7.

Referring to Fig. 5, it will be seen that the right angle fulcrum-point 13 of the pin-tongue 9 will, in turning said pin-tongue to closed position, bear upon the top of the bearing portion 7 and tend to force said bearing portion downward into the cup-shaped member 10, but any such pressure will spring the free end or tail piece 4 lengthwise, so that it will impinge all the harder against the end of said cup-shaped member. As the bearing portion 7 cannot move laterally under pressure, the tendency is for it to bend or buckle and this is prevented by the strengthening rib 8.

With the above construction the cuff-pin produced is extremely strong and efficient and the necessity of bending over the ends of the front portion upon projections formed on the back portion is obviated. If desired the strengthening rib or corrugation may be extended along the body portion of the blank 1 any distance, as shown at 8' in Fig. 9.

Other changes in the construction may be made without departing from the spirit and scope of my invention, and I do not wish to limit myself except as required by the scope of the appended claims to the exact construction shown.

What I claim as my invention and desire to secure by Letters Patent is:

1. In an article of the class described, the combination, with a cup-shaped front portion, of a back portion secured therein, said back portion being provided at one end with a pin-catch and at the other end with a pair



of hinge-members, a pin-tongue pivoted therein, and a bearing portion in said back portion beneath said hinge-members, the free end of said bearing portion engaging the inner end wall of the front portion.

2. In an article of the class described, the combination, with a cup-shaped front portion, of a back portion secured therein, said back portion being provided at one end with a pin-catch and at the other end with a pair of hinge-members, a pin-tongue pivoted therein, and a longitudinally extending rib having its rear end located adjacent said hinge-members.

3. In an article of the class described, the combination, with a cup-shaped front portion, of a back portion secured therein, said back portion being provided at one end with a pin-catch and at the other end with a pair of hinge-members, a pin-tongue pivoted therein, a bearing portion in said back portion beneath said hinge-members, and a longitudinal rib at the forward end of said bearing portion, the free end of said bearing portion engaging the inner end of the front portion.

4. In an article of the class described, the combination, with a cup-shaped front portion, of a back portion secured therein, said back portion being provided at one end with a pin-catch and at the other end with a pair of hinge-members, a pin-tongue pivoted therein, and an inclined longitudinally extending rib having its rear end extending between said hinge-members.

5. A back plate for cuff-pins and similar articles comprising a body portion, a pin-catch and a pair of hinge-members integral with said body portion, and a longitudinal rib upon the front of said body portion adjacent the forward ends of said hinge-members.

6. A back plate for cuff-pins and similar articles comprising a body portion provided with a pin-catch, a pair of hinge-members, a bearing portion in said body portion beneath said hinge-members, and an inclined rib at the forward end of said bearing portion.

JOHN A. CHAPLIN.

Witnesses

W. H. THURSTON,  
J. H. THURSTON.