

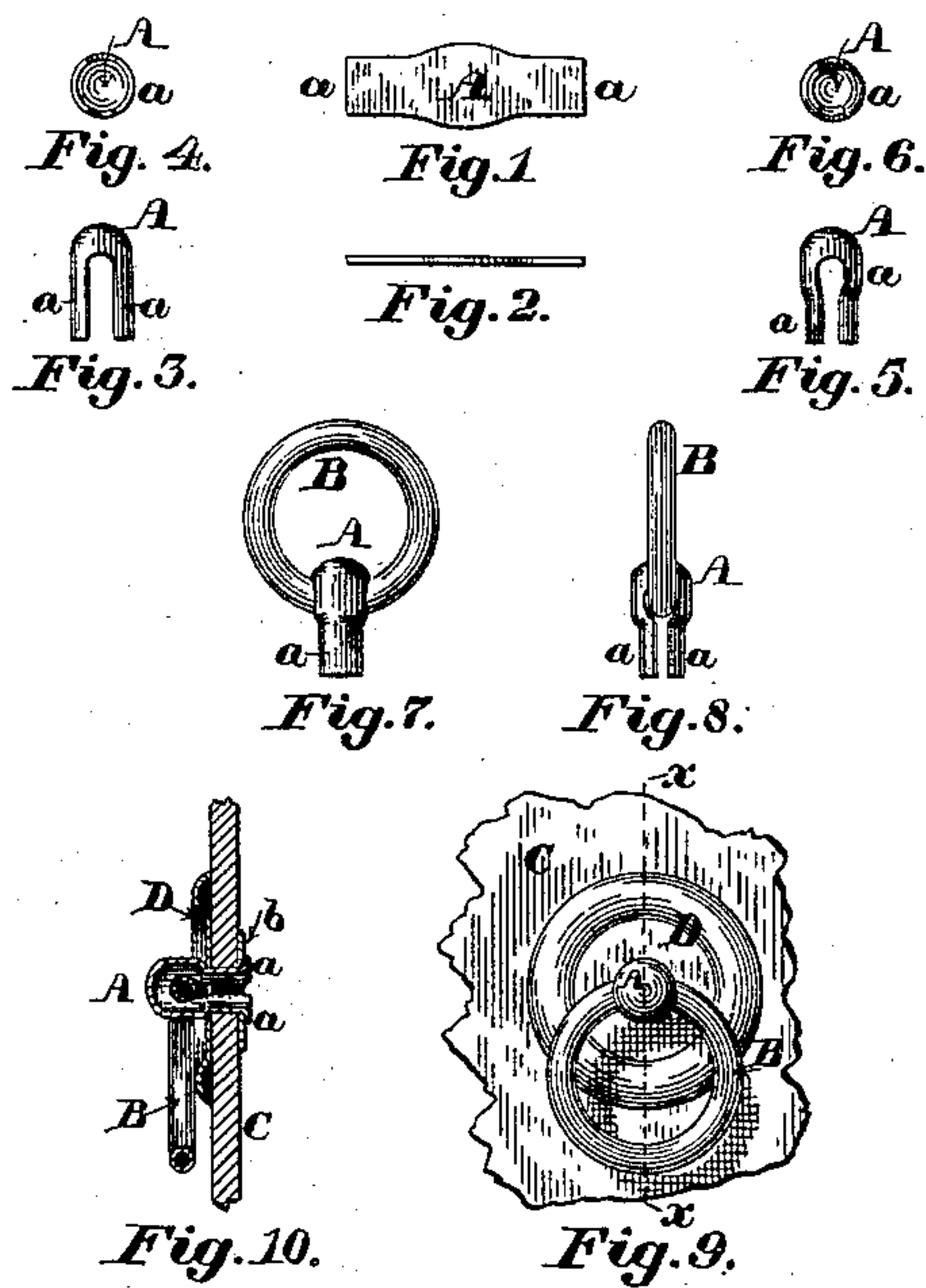
(No Model.)

M. BRAY.

MANUFACTURE OF RING SOCKETS.

No. 280,786.

Patented July 10, 1883.



**Witnesses:**

Walter E. Lombard  
E. A. Kemmenway.

**Inventor:**

Mellen Bray,

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Attorney.

# UNITED STATES PATENT OFFICE.

MELLEN BRAY, OF NEWTON, MASSACHUSETTS.

## MANUFACTURE OF RING-SOCKETS.

SPECIFICATION forming part of Letters Patent No. 280,786, dated July 10 1883.

Application filed November 13, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, MELLEN BRAY, of Newton, in the county of Middlesex and State of Massachusetts, have invented certain new and  
5 useful Improvements in Ring-Sockets and in the Process of Making the Same, of which the following, taken in connection with the accompanying drawings, is a specification.

My invention relates to the manufacture of  
10 the sockets or shanks in which are mounted rings to be used as pulls for furniture-drawers and paper-file boxes; and it consists, first, of a socket adapted to receive and encompass the ring, and provided with a split tubular shank  
15 made from a single piece of sheet metal.

It further consists of a socket or stud having a hollow spheroidal head and a bifurcated tubular shank, and provided with a transverse opening through its head to receive the ring,  
20 all made from a single piece of sheet metal.

Figure 1 of the drawings is a plan of the blank from which the socket is to be made. Fig. 2 is an edge view of the same. Figs. 3 and 4 are respectively an elevation and an inverted plan of the same blank after the first  
25 swaging operation is performed. Figs. 5 and 6 are respectively an elevation and plan of the same after the second swaging operation. Figs. 7 and 8 are respectively a side elevation and  
30 edge view of a ring with improved socket applied thereto and completed by the third swaging operation. Fig. 9 is a front elevation of my improved socket and its ring applied to a  
35 piece of material, which may represent a portion of the front of a light drawer or of a paste-board file-box; and Fig. 10 is a section on line *x x* of Fig. 9.

I first cut a blank from sheet metal of the shape shown in Fig. 1, and then subject said  
40 blank to the action of swaging-dies to form it to the shape shown in Figs. 3 and 4, and then to the action of another pair of dies to reduce the shank portion in diameter and close up or  
45 partially close up the space between the segments *aa*, and form the under side of the head,

as shown in Figs. 7 and 8, when the ring may be applied to the socket by springing the two parts of the shank apart, when the ring and socket are ready for application to the article upon which they are to be used.

The manner of applying my invention to practical use is clearly illustrated in Figs. 9 and 10, in which *A* is the spheroidal head of the socket, and *aa* the two segmental divisions of the bifurcated tubular shank.

*B* is the ring-pull, which passes transversely through the head *A*, and is free to be moved therein.

The shank *aa* of the socket is passed through the material *C*, and clinched by turning the  
60 ends of the segments *aa* outward and pressing them upon the material, as shown in Fig. 10.

In some cases, as when the material to which is to be secured is of such a nature that it will not hold the socket when clinched directly  
65 upon the material, I use an embossed ornamental collar, *D*, between the head *A* and the material, and a plain flat metal washer, *b*, upon the opposite side of the material, and clinch the shank down upon said washer, as shown  
70 in Fig. 10.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

1. A ring socket or support having a transverse opening to receive the ring and a bifurcated tubular shank made from a single piece  
75 of sheet metal, substantially as described.

2. A socket or stud having a hollow spheroidal head and a bifurcated tubular shank, and provided with a transverse opening through  
80 its head, all made from a single piece of sheet metal, substantially as described.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 7th day of November, A. D. 1882.

MELLEN BRAY.

Witnesses:

E. A. HEMMENWAY,  
WALTER E. LOMBARD.