

O. R. MAYER.
 LOOSE LEAF BINDER.
 APPLICATION FILED NOV. 27, 1908.

917,093.

Patented Apr. 6, 1909.

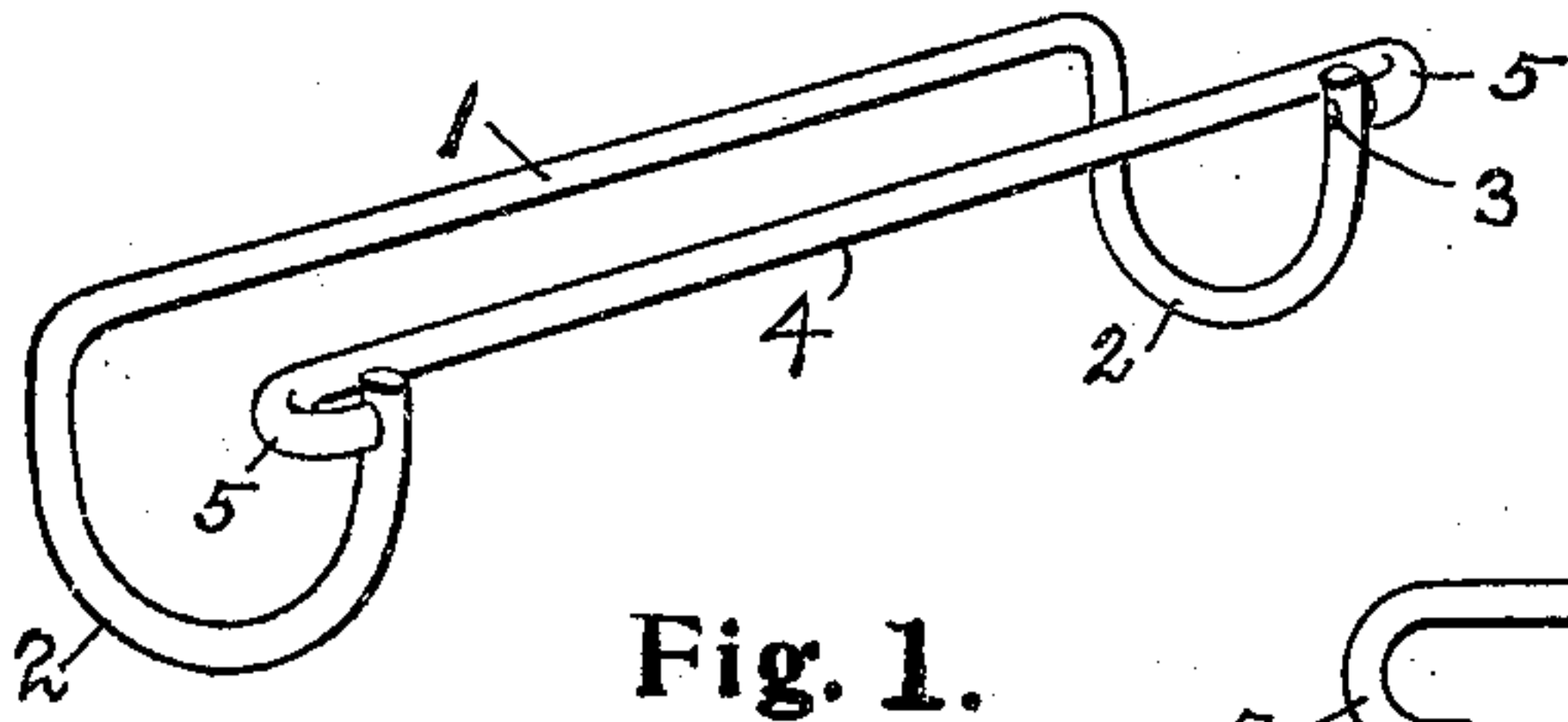


Fig. 1.

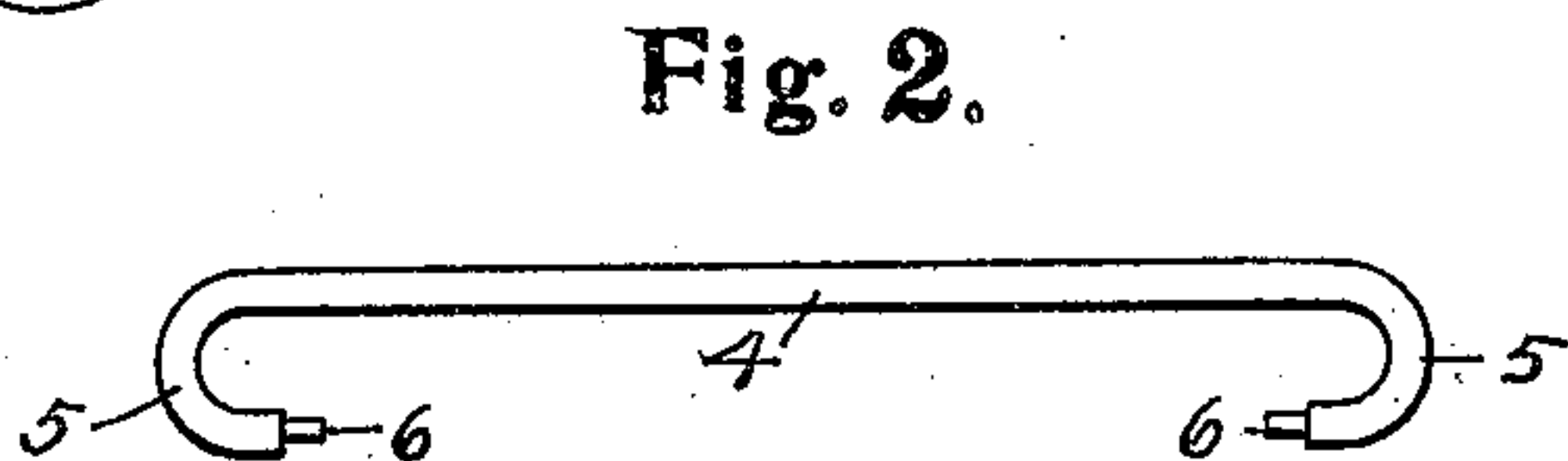


Fig. 2.

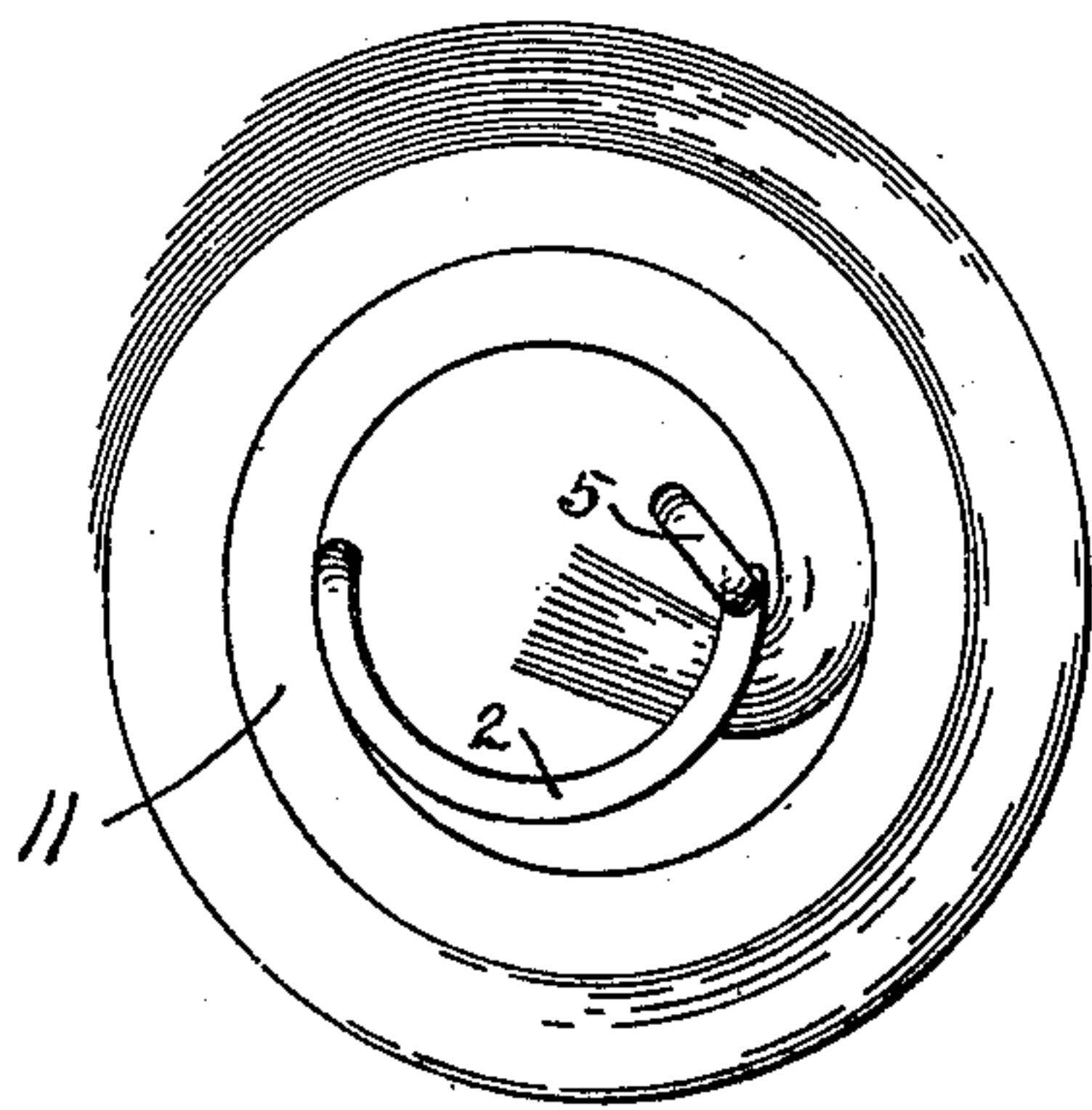


Fig. 3.

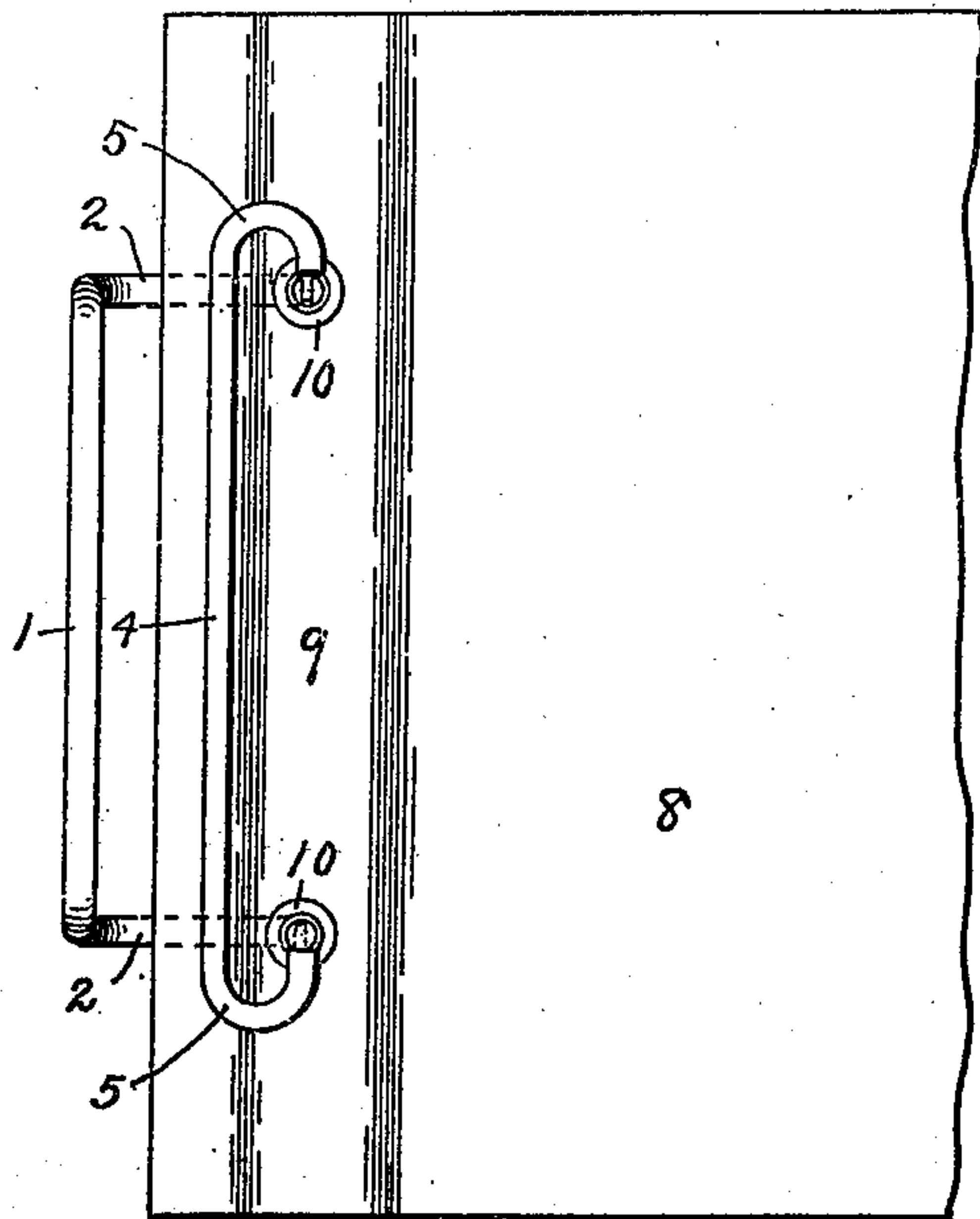


Fig. 4.

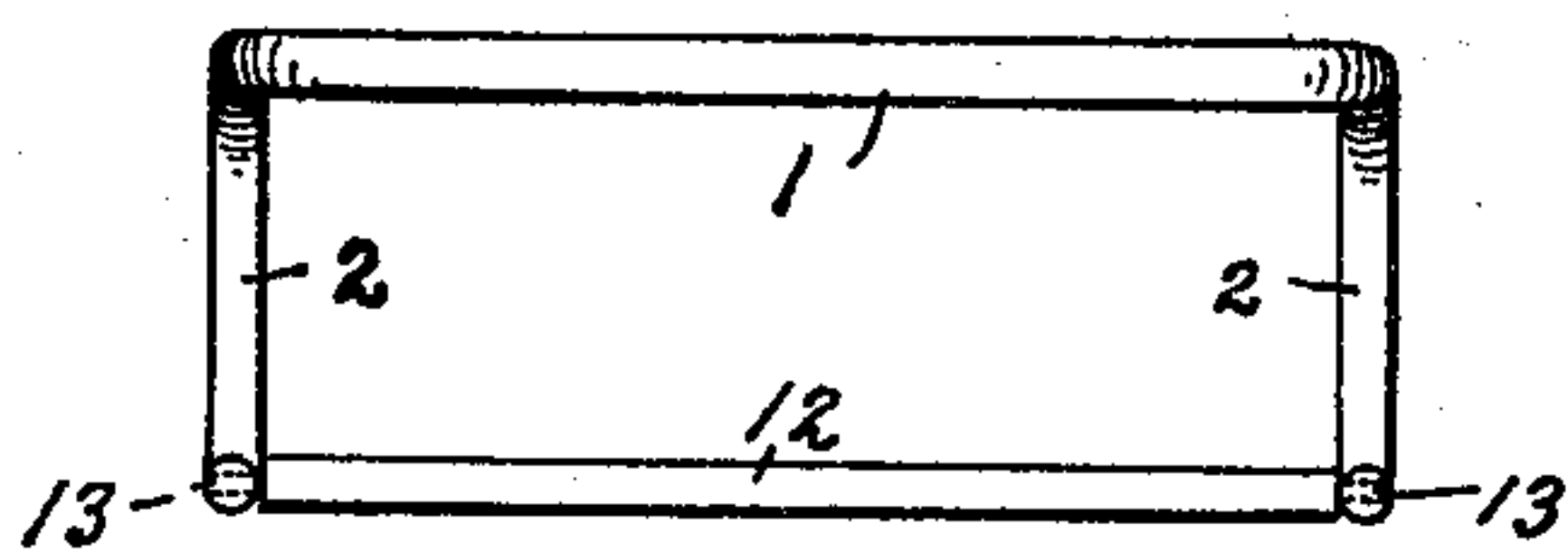


Fig. 6.

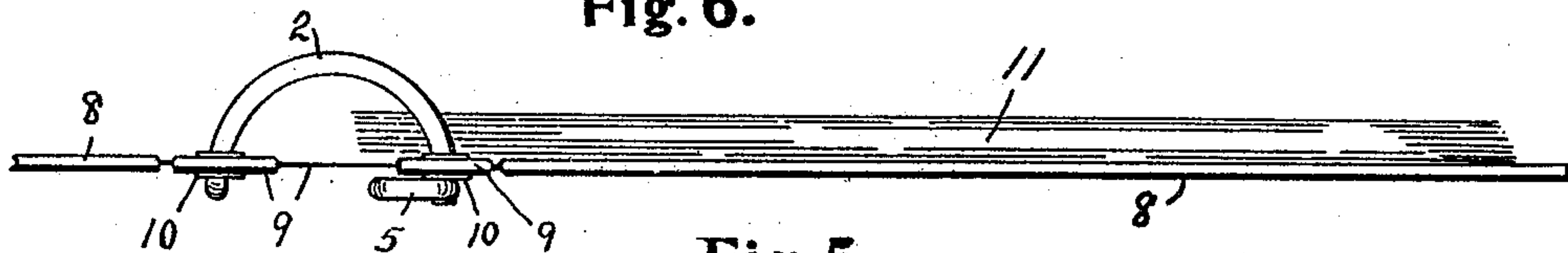


Fig. 5.

Witnesses

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LOOSE-LEAF BINDER.

No. 917,093.

Specification of Letters Patent.

Patented April 6, 1909.

Application filed November 27, 1908. Serial No. 464,612.

To all whom it may concern:

Be it known that I, OSWALD R. MAYER, a citizen of the United States, and a resident of Detroit, in the county of Wayne and State of Michigan, have invented a new and Improved Loose-Leaf Binder, of which the following is a specification.

This improvement relates to means for securing together loose leaves of paper, sheets of cloth or other materials, with or without a cover, and the object of this invention is to provide a binder that shall be simple, efficient and durable, and that can be produced at a low cost.

My invention consists in a two part binder, the main part formed by a bar with semicircular portions at each end, in planes at right angles to the bar; the locking part also being a bar with its ends formed to engage the ends of the semicircular portions.

In the accompanying drawings, Figure 1 is a perspective view of my improved binder. Fig. 2 is a view of the locking part. Fig. 3 is an end view of a number of loose leaves held together with this binder and rolled up. Fig. 4 is a plan of the binder together with a cover. Fig. 5 is an end view of the same with leaves indicated by broken lines. Fig. 6 is a view of a modified form of the invention.

Similar reference characters refer to like parts throughout the several views.

This binder can be made of resilient metal rods of any desirable cross section, and for binders four inches long, round steel rods one eighth inch in diameter are quite efficient. The main portion is formed by the bar 1 and parallel curved parts 2 having holes 3 at the ends. The curved parts are preferably in planes at right angles to the bar. The locking bar 4 has curved portions 5 and reduced ends 6 which enter the holes 3.

To connect the parts, the pin 6 is entered into one hole 3 and the parts 2 are sprung together so that the second pin 6 can enter the other hole 3 when the resilience of the metal will hold the parts locked. To disconnect them, the operation is reversed. Loose leaves, properly perforated, may be placed

over the parallel parts 2, as shown in Fig. 3, and the whole rolled up into a compact body.

In Figs. 4 and 5, a cover is shown having boards 8, and a hinged portion 9 provided with metal eyelets 10. After disconnecting the lock bar the curved portions 2 can be so moved out of the eyelets of one board that sheets 11 can be taken out or more of them put in.

Instead of forming the lock bar with hooks 5 so that the pins 6 may enter the holes 3 from the outside, the lock bar may be made straight as shown in Fig. 6. In this case the bar 12 also has pins 13 at its ends which may be placed in the holes 3 when the parts 2 are sprung apart. The bar 1 forms a good handle whereby the book of Figs. 4 and 5 may be carried or hung up.

Having now explained my improvements, what I claim as my invention and desire to secure by Letters Patent is:—

1. A loose leaf binder consisting of two parts, one of the parts being a bar having parallel curved portions at its ends, the ends of the curved portions being perforated, the other part extending between the curved portions and having reduced ends to enter said holes.

2. A loose leaf binder consisting of a main portion of resilient metal having its ends curved and perforated and a separate locking portion extending between the ends of the main portion and engaging in the perforations in the same.

3. A loose leaf binder consisting of two parts, one consisting of a straight bar having its ends curved parallel to each other in planes at right angles to the bar and perforated, and a second straight bar having its ends curved back in the same plane and reduced to enter the holes in the ends of the first part.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

OSWALD R. MAYER.

Witnesses:

H. D. MACDONALD,
F. ULRICH.