

No. 865,623.

PATENTED SEPT. 10, 1907.

W. E. WOOD.
CLAMPING DEVICE.
APPLICATION FILED JUNE 2, 1906.

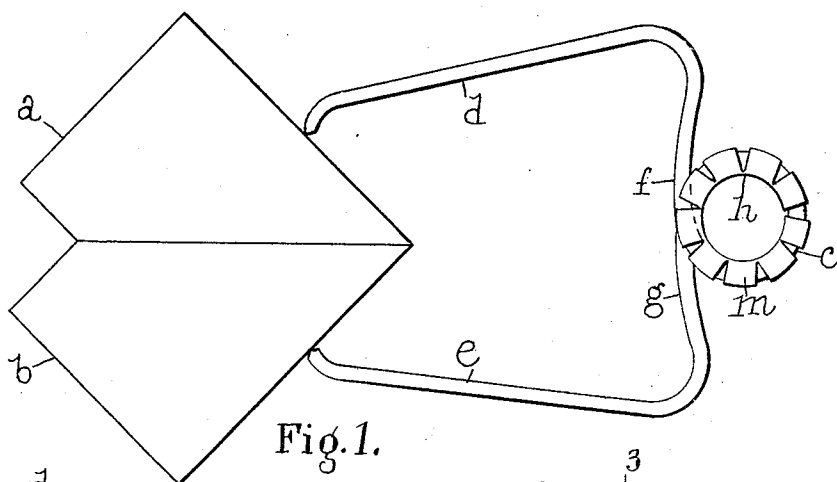


Fig. 1.

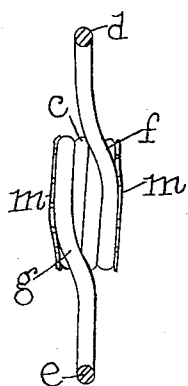


Fig. 3.

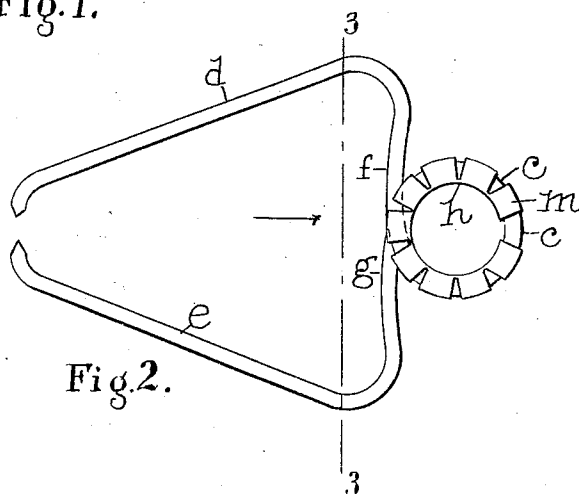


Fig. 2.

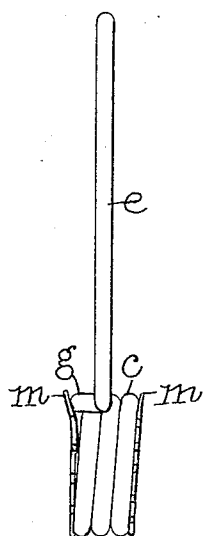


Fig. 4.

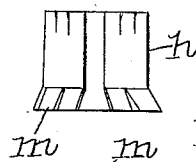


Fig. 5.

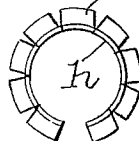


Fig. 6.

Witnesses.
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UNITED STATES PATENT OFFICE.

WINTHROP E. WOOD, OF WINTHROP, MASSACHUSETTS, ASSIGNOR OF ONE-THIRD TO GEORGE J. LOTHROP, OF MEDFORD, MASSACHUSETTS.

CLAMPING DEVICE.

No. 865,623.

Specification of Letters Patent.

Patented Sept. 10, 1907.

Application filed June 2, 1906. Serial No. 319,880.

To all whom it may concern:

Be it known that I, WINTHROP E. WOOD, a citizen of the United States, residing in Winthrop, in the county of Suffolk and State of Massachusetts, have
5 invented an Improvement in Clamping Devices, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention relates to a clamping device, especially adapted among other uses to be employed by cabinet makers for clamping pieces of wood together while the glue sets.

The invention has for its object to provide a simple, efficient and inexpensive clamping device of the character specified. For this purpose I employ a single
15 piece of wire which is bent to form jaws or arms to engage the object, and a coil of a plurality of turns or convolutions to form a spring with which the jaws or arms are connected. The jaws or arms are connected
20 to the opposite ends of the convolutions and are off-set so as to bring the said jaws or arms substantially in line with each other. The coil or spring has coöperating with it a split sleeve or eyelet extended through the coil and flanged at its ends to confine the coils and
25 prevent their being distorted or spread apart, as will be described. These and other features of this invention will be pointed out in the claims at the end of this specification.

Figure 1 represents a clamping device embodying
30 this invention in operative position. Fig. 2 is an elevation of the clamping device in its inoperative position. Fig. 3, a section on the line 3—3. Fig. 4, an end elevation of the device to show the off-set in the jaws or arms, and Figs. 5 and 6, details of the eyelet or
35 sleeve to be referred to.

Referring to the drawings, *a, b* represent two pieces of wood, which are held together by a clamping device embodying this invention.

The clamping device referred to is made from a single
40 piece of wire, which may be of any gage suitable to the work required, and which is bent to form a

spring coil composed of a plurality of convolutions *c*, and two clamping jaws or arms *d, e*, which are arranged radially with relation to the spring coil at or near the longitudinal center of the same, and are connected with
45 the opposite end convolutions of the coil by offset portions *f, g*, shown best in Fig. 3 and which are substantially tangential to said coil, the arms *d, e*, connected with said tangential portions converging toward each other as represented in Fig. 2.

In order to keep the convolutions *c* of the spring coil from spreading apart and thereby keep the clamping jaws or arms *d, e*, in alinement, the spring coil has inserted into it a split sleeve or eyelet *h*, whose ends are normally separated as represented in Figs. 2, 5 and
55 6, to permit contraction of the coil when the jaws or arms *d, e*, are opened, as represented in Fig. 1.

The eyelet or sleeve is provided at its ends with flanges *m*, which engage the end convolutions of the spring coil and prevent the latter being twisted so as
60 to cause the jaws or arms to be moved out of alinement. The flanges *m* may be notched after the manner shown in the drawings.

Claims.

1. A clamping device comprising a single piece of wire bent to form a spring coil composed of a plurality of convolutions, offset portions extended from the end convolutions of the coil substantially tangential with relation thereto, and jaws or arms connected to said offset portions and converging toward each other, substantially as
65 described.

2. A clamping device comprising a single piece of wire bent to form a spring coil composed of a plurality of convolutions, jaws or arms radially arranged with relation to said coil, offset portions connecting said arms with the
75 opposite end convolutions of said coil, and a split sleeve inserted in said coil and having end flanges which engage the endmost convolutions of said coil, substantially as described.

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

WINTHROP E. WOOD.

Witnesses:

JAS. H. CHURCHILL,
J. MURPHY.