

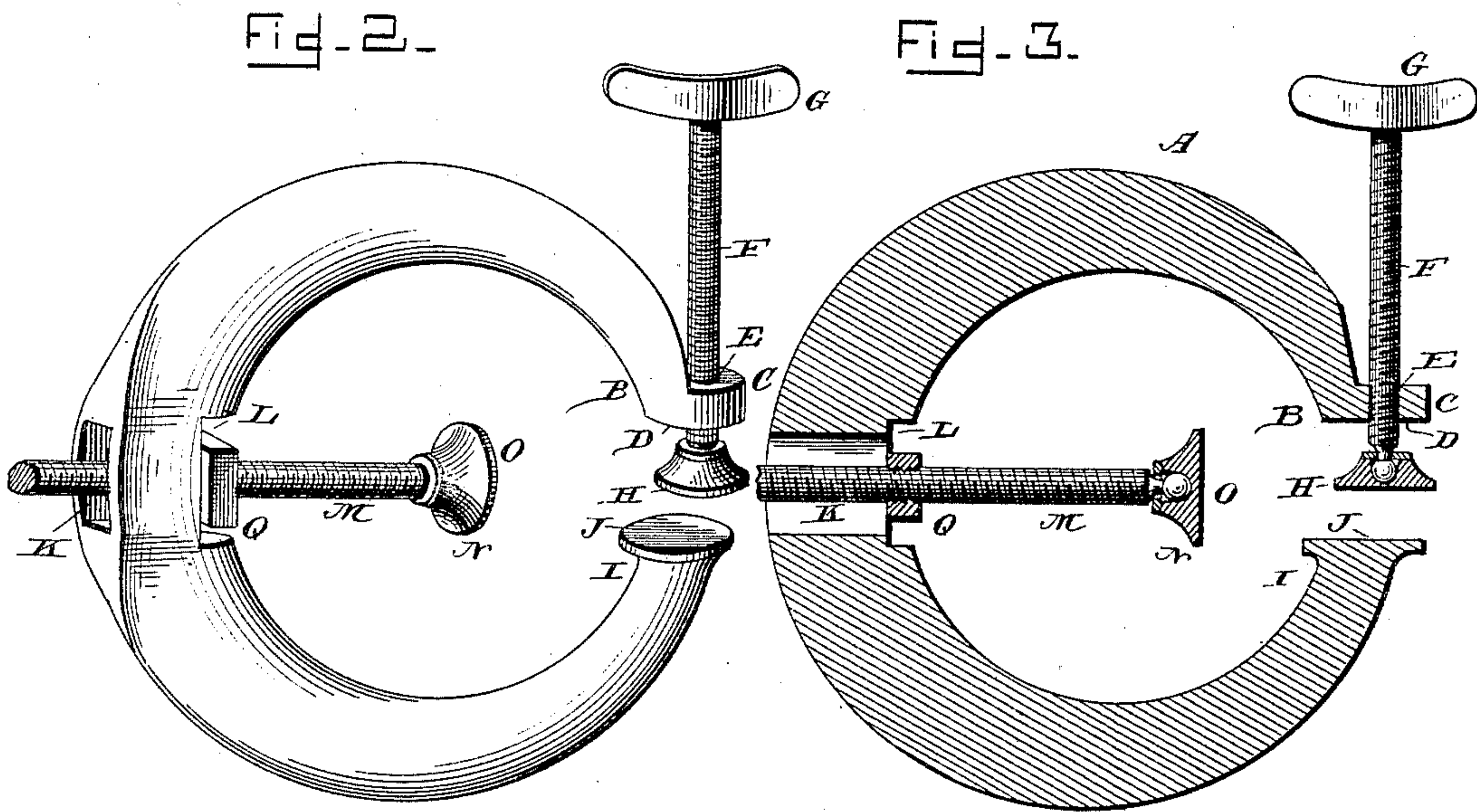
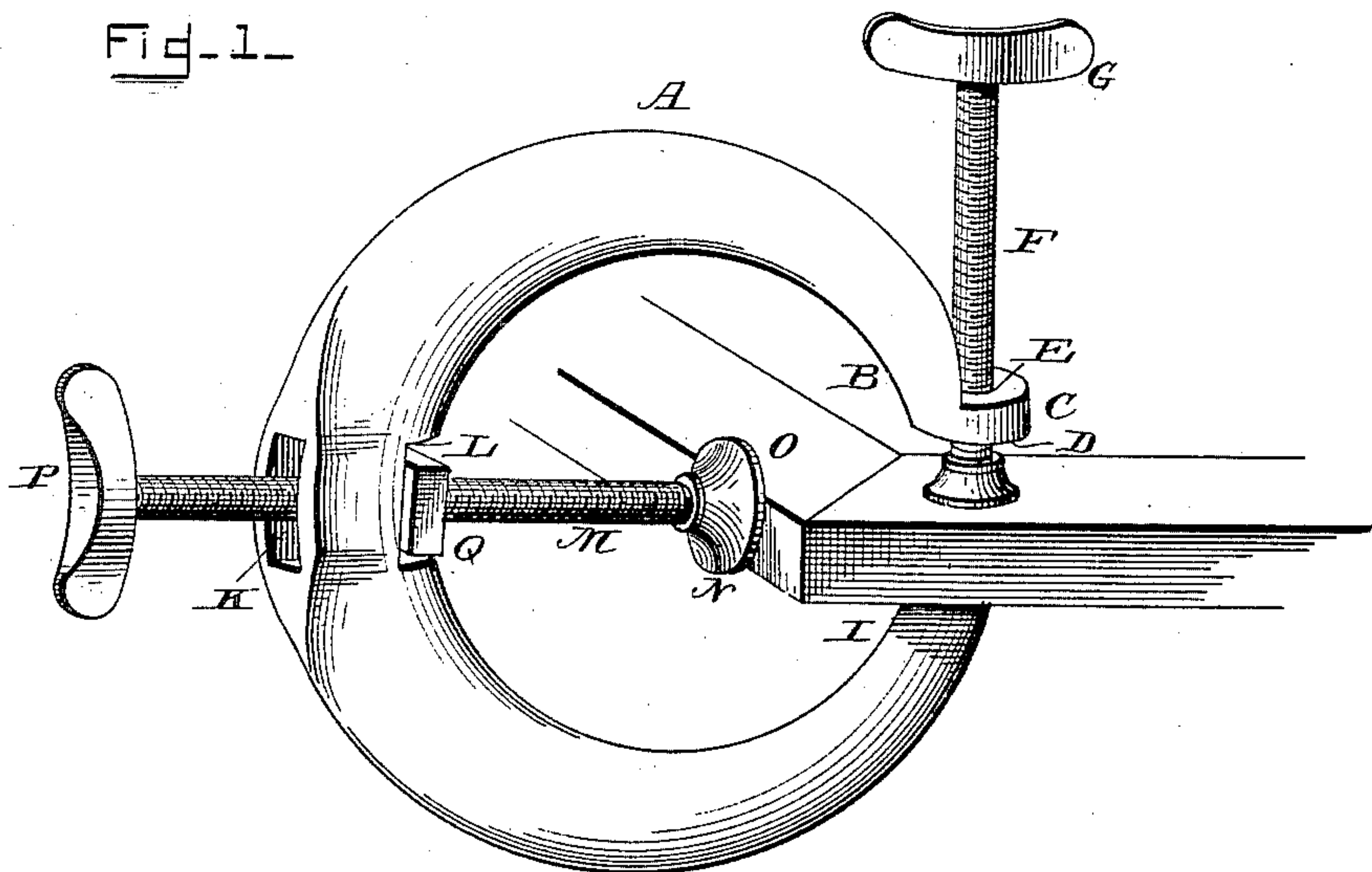
(No Model.)

S. E. NIES.

CLAMP.

No. 339,072.

Patented Mar. 30, 1886.



WITNESSES

G. H. Curand  
Edward Stanton

INVENTOR

Samuel E. Nies,  
By Louis Bagger & Co.  
Attorneys



# UNITED STATES PATENT OFFICE.

SAMUEL E. NIES, OF READING, PENNSYLVANIA.

## CLAMP.

SPECIFICATION forming part of Letters Patent No. 339,072, dated March 30, 1886.

Application filed February 20, 1886. Serial No. 192,718. (No model.)

*To all whom it may concern:*

Be it known that I, SAMUEL E. NIES, a citizen of the United States, and a resident of Reading, in the county of Berks and State of Pennsylvania, have invented certain new and useful Improvements in Miter-Clamps; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to  
10 which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved miter-clamp, showing it applied to the corner of a frame. Fig. 2 is a similar view of the clamp separate, and Fig. 3 is a sectional view of the same.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to clamps for the use of carpenters, cabinet-makers, and similar mechanics, for the purpose of holding portions of carpenter or cabinet work together  
25 after it has been glued together; and it consists in the improved construction and combination of parts of the same, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter  
30 A indicates the clamp-frame, which frame is preferably circular, or nearly so, and cut out at one place to form a space into which the work may be introduced. One end, B, of the facing ends is formed with a head, C, which  
35 is provided with a flat face, D, and a screw-threaded perforation, E, opening in the face and at the outer side of the curved portion of the end, and a screw, F, fits in this perforation, and is provided with a flat handle, G, at  
40 its outer end, and with a swiveled head, H, at its inner end, the said head having a flat face. The other end, I, of the frame is formed with a flat face, J, against which the flat face of the swiveled head faces, and the object to  
45 be glued may be clamped between the flat faces of the end of the frame and of the head. Diametrically opposite to the opening in the frame is a slot, K, and the inner side of the frame is cut away at the slot to form a recess,  
50 L, and a screw, M, having a swiveled head,

N, at its inner end, provided with a flat face, O, and a handle, P, at its outer end, slides in this slot, and has a nut, Q, upon its inner portion, which nut may rest in the recess in the frame. When the corner of a frame is to  
55 be glued together, the one side of the frame is clamped by the clamping-screw against the flat head of the frame, and the central screw is forced with its flat head against the edge of the other side piece of the frame, forcing it  
60 against the other piece and holding it in position until the glue has hardened, and it will be seen that, on account of the central screw sliding in the slot, the said screw may be brought to bear directly against the edge of  
65 the frame, regardless of the thickness of the frame, and the heads of the screws being swiveled, they may be brought to bear squarely against the portions to be glued together, as well when the surfaces upon which the heads  
70 are bearing are plane as if they are beveled or form a portion of a molding, the heads being swiveled by ball-and-socket joints. The clamp may also be used where two pieces are glued together with their faces toward each other,  
75 and a third piece is glued to the ends of these two pieces at a right angle to the same, as well as where the end of one piece is glued to the side of another piece at a right angle to the same, or nearly so.  
80

The clamp may be made in several sizes, and may have more or less space between its ends, as the work to which it is intended may require; but the screws will allow considerable variety in the size and shape of the work to be held clamped, as they are of a sufficient length to clamp small articles as well as articles of considerable thickness.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

In a clamp for holding articles to be joined together, the combination of a round frame having one end formed with a head provided with a screw-threaded perforation, and having a head at the other end formed with a flat head and formed with a longitudinal slot at a point diametrically opposite to the aperture in the frame formed with a recess upon the inner side of the frame, a screw fitting in the

5 threaded perforation and having a handle at its outer end and a head swiveled by a ball-and-socket joint to its inner end, a screw passing through the slot and having a head at its inner end swiveled to it by a ball-and-socket joint and having a handle at its outer end, and a nut fitting upon the inner portion of the screw bearing in the recess in the frame, as and for the purpose shown and set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

SAMUEL E. NIES.

Witnesses:

CHARLES E. SCHRADER,  
WILLIAM R. HENNINGER.