

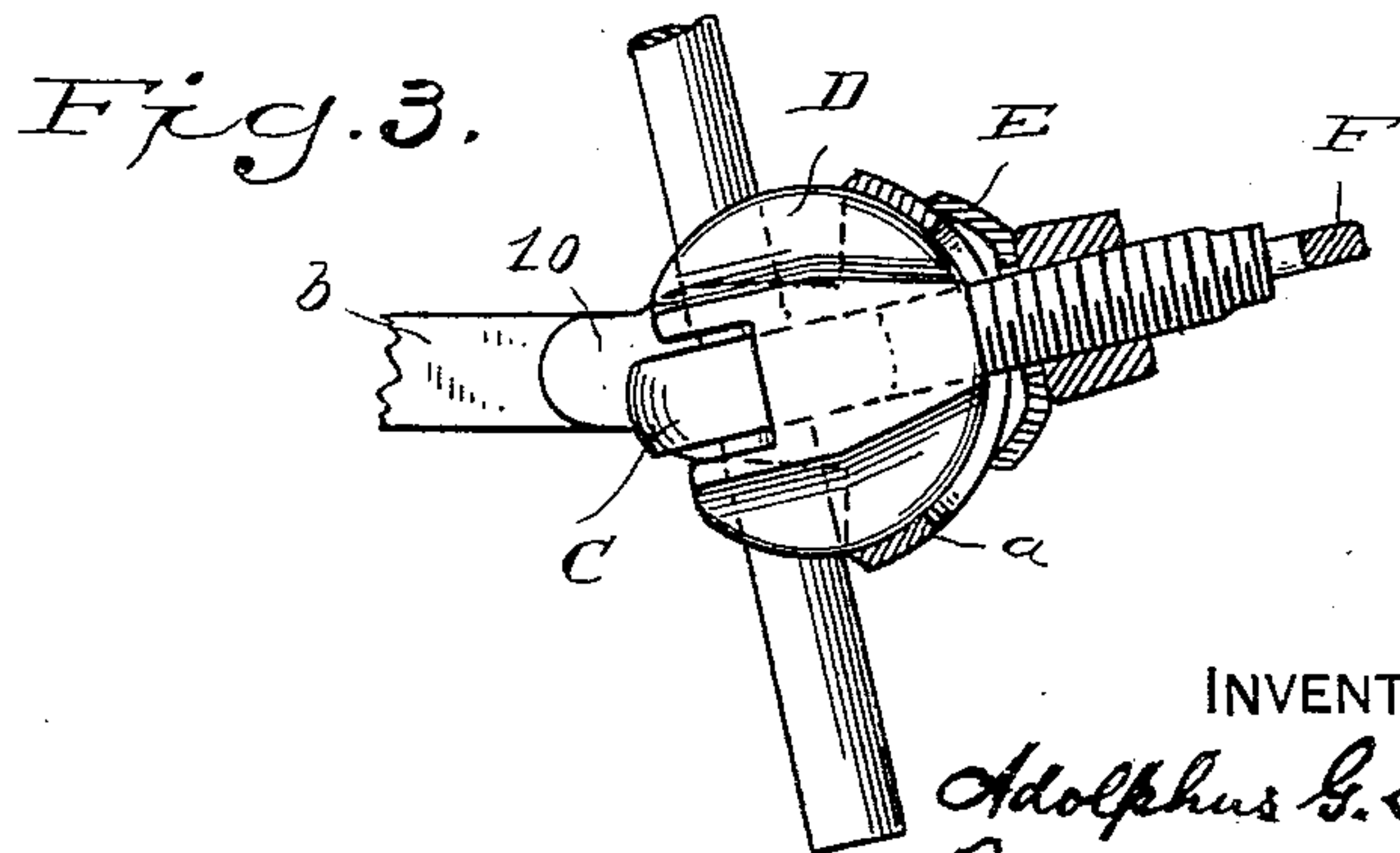
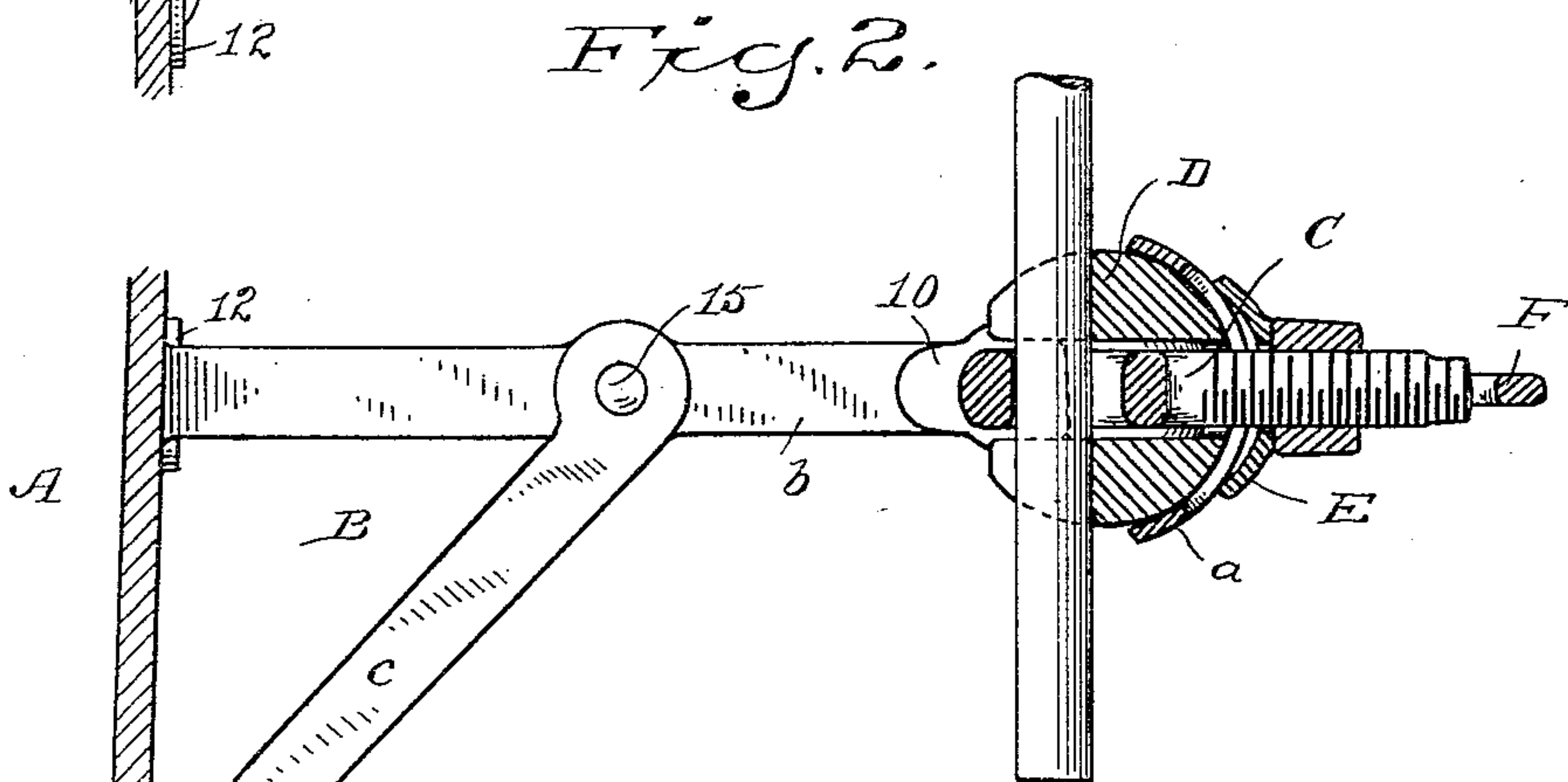
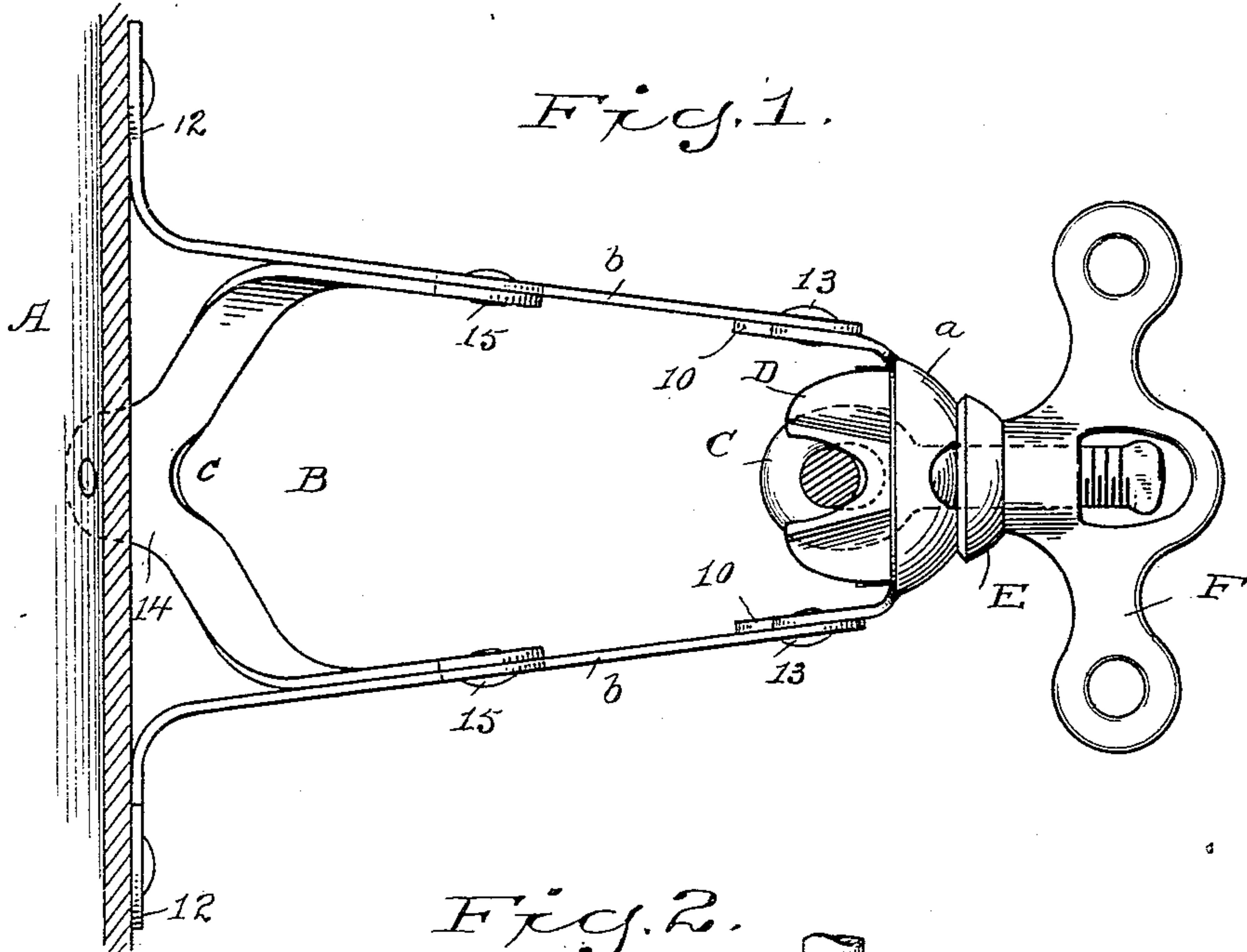
No. 664,784.

Patented Dec. 25, 1900.

A. G. SNELL.  
UMBRELLA ROD CLAMP.

(Application filed May 18, 1900.)

(No Model.)



WITNESSES

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# UNITED STATES PATENT OFFICE.

ADOLPHUS G. SNELL, OF NEW HAVEN, CONNECTICUT.

## UMBRELLA-ROD CLAMP.

SPECIFICATION forming part of Letters Patent No. 664,784, dated December 25, 1900.

Application filed May 16, 1900. Serial No. 16,880. (No model.)

*To all whom it may concern:*

Be it known that I, ADOLPHUS G. SNELL, a citizen of the United States, residing at New Haven, county of New Haven, State of Connecticut, have invented a new and useful Carriage-Rod Clamp, of which the following is a specification.

My invention relates to the manufacture of clamps for umbrella-rods on baby-carriages, and which I term, for convenience, "carriage-rod" clamps, and has for its object to provide a construction of clamp-frame that will enable me to blank out the complete frame from four pieces of sheet metal, said pieces being secured together by four rivets.

Heretofore, so far as I am aware, clamp-frames for carriage-rods have been cast. The production of these frames has been an important item in the cost of carriage-rod clamps for the reason that the frames are difficult and expensive to cast and, furthermore, that cast frames are apt to warp, which necessitates a straightening operation and also requires expensive finishing operations. By making the clamp-frames in accordance with my present invention I am enabled to produce a frame that is neat and attractive in appearance and stronger than any possible requirement of use, while at the same time the frame is much lighter and costs but a mere fraction of the cost of cast frames. This difference in cost in favor of frames made in accordance with my present invention over cast frames is a very important one and is twofold.

My novel clamp-frames weigh less than cast frames, and cast frames cost five or six times as much per pound as frames blanked out from sheet metal.

In the accompanying drawings, forming part of this specification, Figure 1 is a plan view of one of my novel carriage-rod clamps in use, the back of the body and the rod being in horizontal section. Fig. 2 is a vertical section corresponding therewith, and Fig. 3 is a similar view showing a different adjustment of the rod.

A denotes the back of a carriage-body; B, the clamp-frame as a whole; C, the eyebolt; D, the block; E, the washer, and F the nut. The eyebolt, block, washer, and nut may be of any ordinary or preferred construction.

The frame comprises a rounded socket *a*,

having ears 10 and a vertical slot 11, two side pieces *b*, which are riveted to ears 10, as at 13, and are provided with feet 12 for attachment to the back of the carriage-body, and a V-shaped piece *c*, which is provided at the angle with a foot 14 and whose arms are riveted to the side pieces, as at 15, it being understood, of course, that the special design or configuration of parts *a*, *b*, and *c* is not of the essence of my invention, but that said parts may have any preferred more or less ornamental design and may have any required shape imparted to them by dies to adapt them for attachment to each other and for attachment to any special style or make of carriage to which it may be desired to clamp an umbrella-rod.

The operation in use is precisely the same as that of ordinary carriage-clamps. The rod is passed through the eye of bolt C and lies in recesses in the block. The washer is placed over the bolt, its concave face engaging the convex face of the socket, and the nut when tightened down on the washer acts to draw the eyebolt inward, whereby the umbrella-rod is clamped firmly by the eyebolt and block and held against movement independently of the block, and the block itself is drawn tightly into the socket and locked there by friction, so that the rod is securely locked against movement in any direction. When the nut is loosened, the rod may be moved vertically in the eyebolt, or the eyebolt, rod, and block may be oscillated toward the right or the left to tilt the rod and umbrella toward either side or may be oscillated longitudinally in the vertical plane to tilt the umbrella toward the front or back.

Having thus described my invention, I claim—

A sheet-metal frame for carriage-rod clamps comprising a socket having a vertical slot, side pieces riveted to said socket and having attaching-feet and a V-shaped piece having an attaching-foot at the angle, the arms of said V-shaped piece being riveted to the side pieces, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

ADOLPHUS G. SNELL.

Witnesses:

ELIPHALET KILLAM,  
EDGAR H. MARTIN.