

**No. 608,202.**

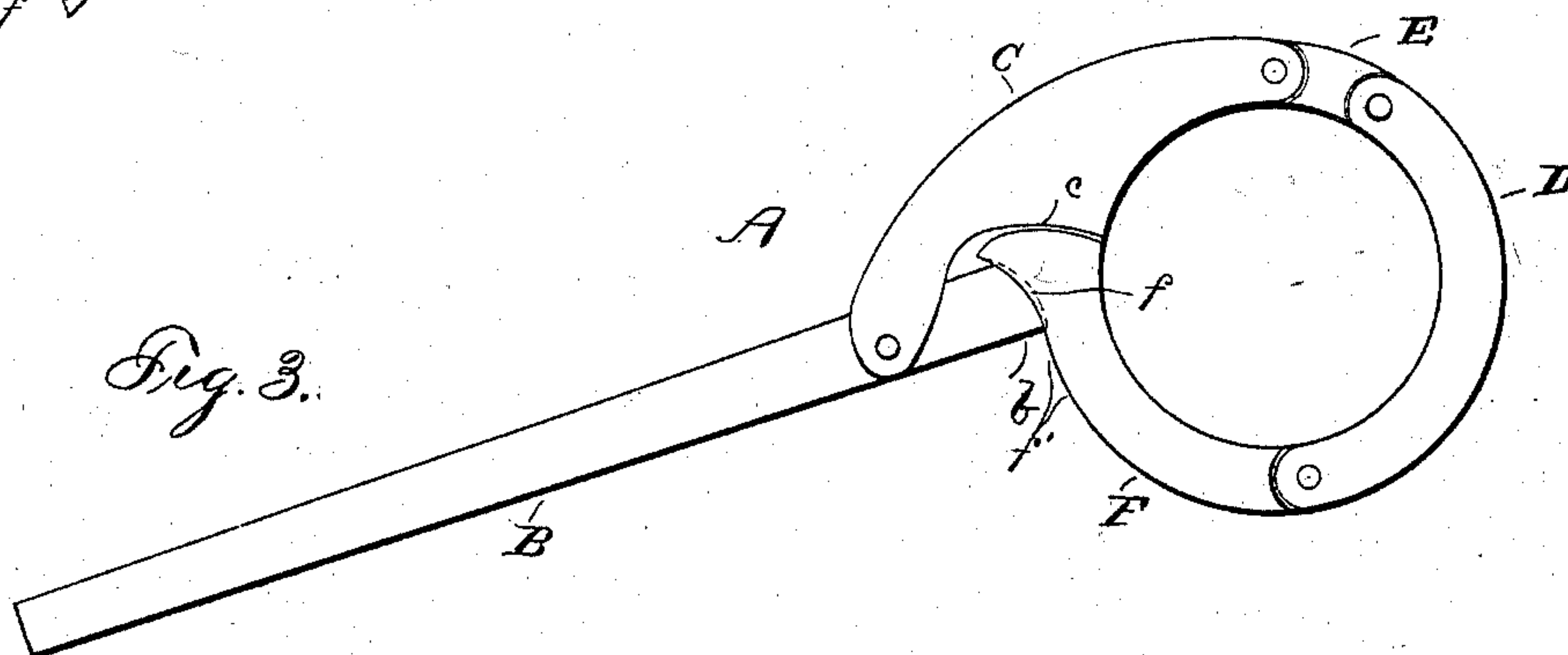
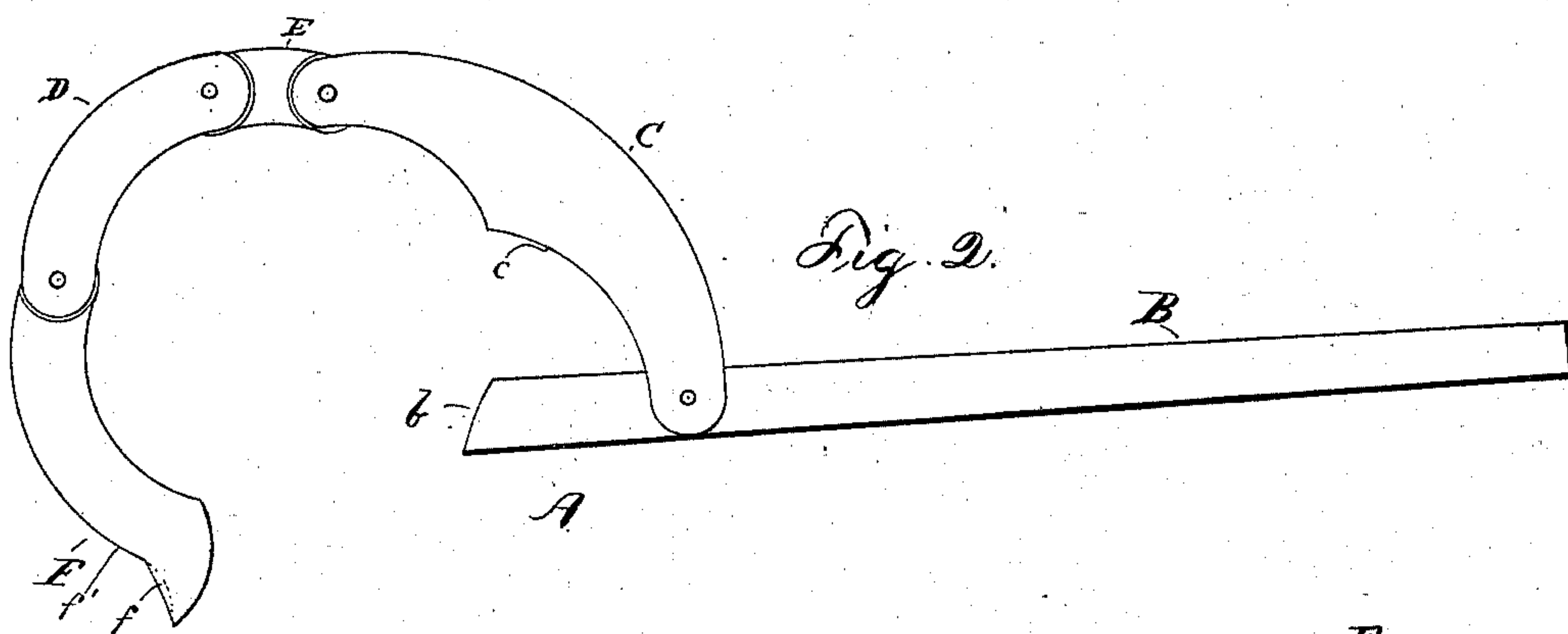
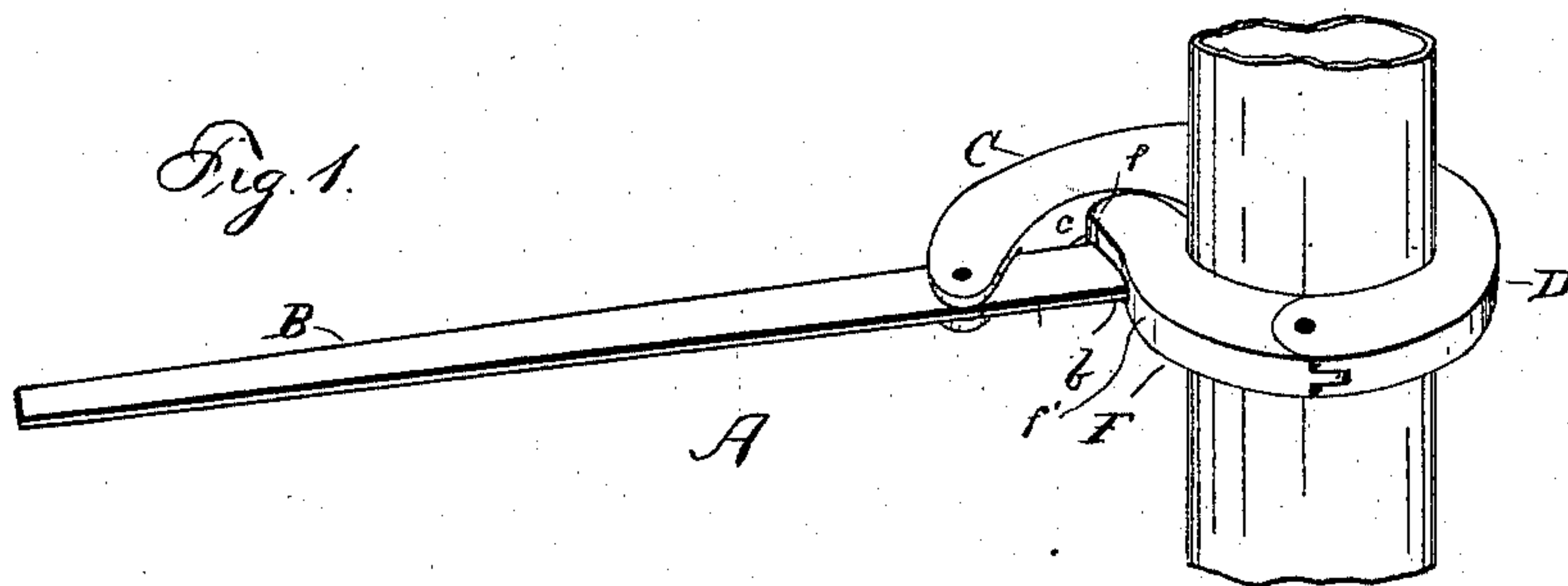
**A. M. KLECKNER.**

**Patented Aug. 2, 1898.**

## PIPE WRENCH.

(Application filed Sept. 30, 1896.)

(No Model.)



**WITNESSES:**

Otis D. Swett.  
Geo M. Copenhagen.

**INVENTOR**

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 BY Thomas P. Simpson  
 ATTORNEY.

# UNITED STATES PATENT OFFICE.

ASAPH M. KLECKNER, OF FINDLAY, OHIO.

## PIPE-WRENCH.

SPECIFICATION forming part of Letters Patent No. 608,202, dated August 2, 1898.

Application filed September 30, 1896. Serial No. 607,384. (No model.)

*To all whom it may concern:*

Be it known that I, ASAPH M. KLECKNER, a citizen of the United States, residing at Findlay, in the county of Hancock and State of Ohio, have invented certain new and useful Improvements in Pipe-Wrenches; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The invention relates to link wrenches, and has for its special object to improve them so that the wrench may be passed from one workman to another without losing its grip upon the tube, this being a great desideratum at oil-wells.

Figure 1 of the drawings is a perspective view; Fig. 2, a detail view to show the wrench open, and Fig. 3 a similar view showing the wrench closed.

In the drawings, A represents a wrench formed of four pivoted links CDEF and a lever B, having the end cam *b*. The outer link F has a cavity on the back of its free end, in which works the cam *b*, while the lever B is so fulcrumed near the outer end of link C that it may be turned slightly beyond a right angle to the pipe, thus forming a lock which will enable it to be transferred from one work-

man to another without losing its grip upon the pipe. The link C has a cavity *c* to receive the head of the other terminal link F, as shown in the drawings.

I am aware that United States Patent No. 547,653, granted to Wiegand and Burr October 8, 1895, shows and describes a link wrench which pulls upon the hook end by the end of the handle as it slides about its fulcrum in a tangential direction on the links; but mine has not only this action, but an additional positive, radial, and clamping action due to the cam-shaped end of the lever, the cam-surface being so arranged as to permit the lever-handle to be turned beyond a right angle to the pipe, thus making a lock which enables it to be transferred from one workman to another without loosening the grip upon the pipe.

What I claim as new is—

A link wrench having the lever B fulcrumed near the end of one terminal link and provided with an end cam which works in a cavity of another end link, the lever being thus allowed to be turned beyond a right angle to the pipe as and for the purpose set forth.

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

ASAPH M. KLECKNER.

Witnesses:

CHARLEY P. KLECKNER,  
JAMES A. BRENNAN.