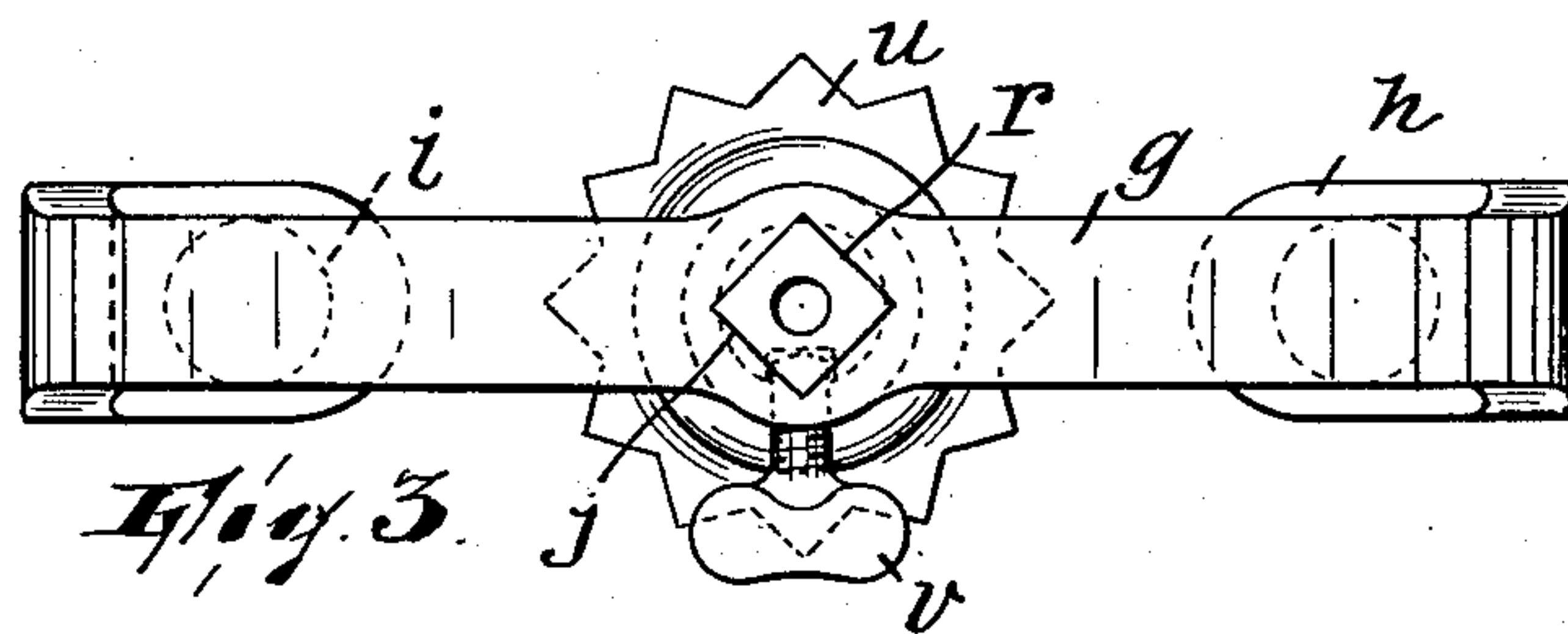
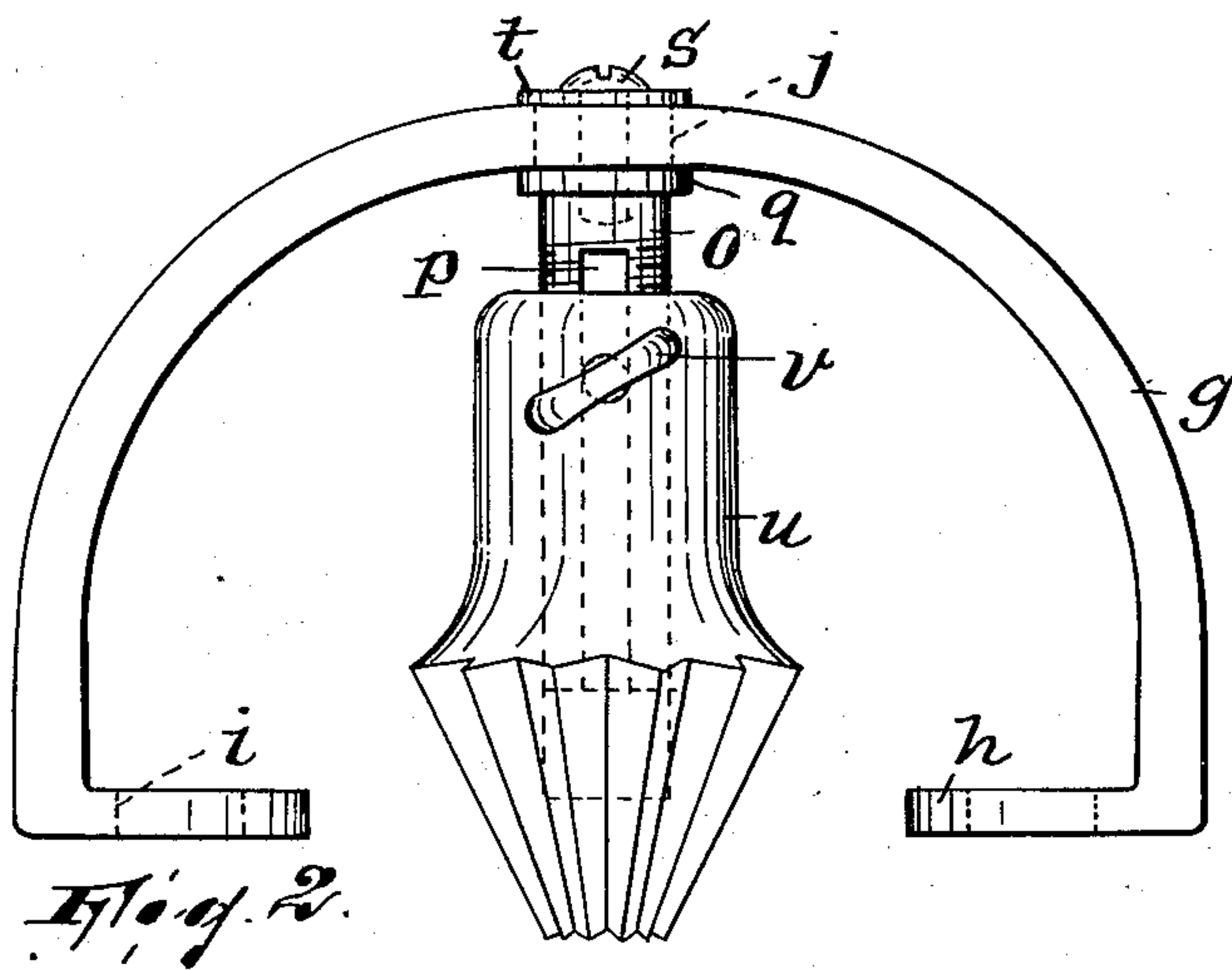
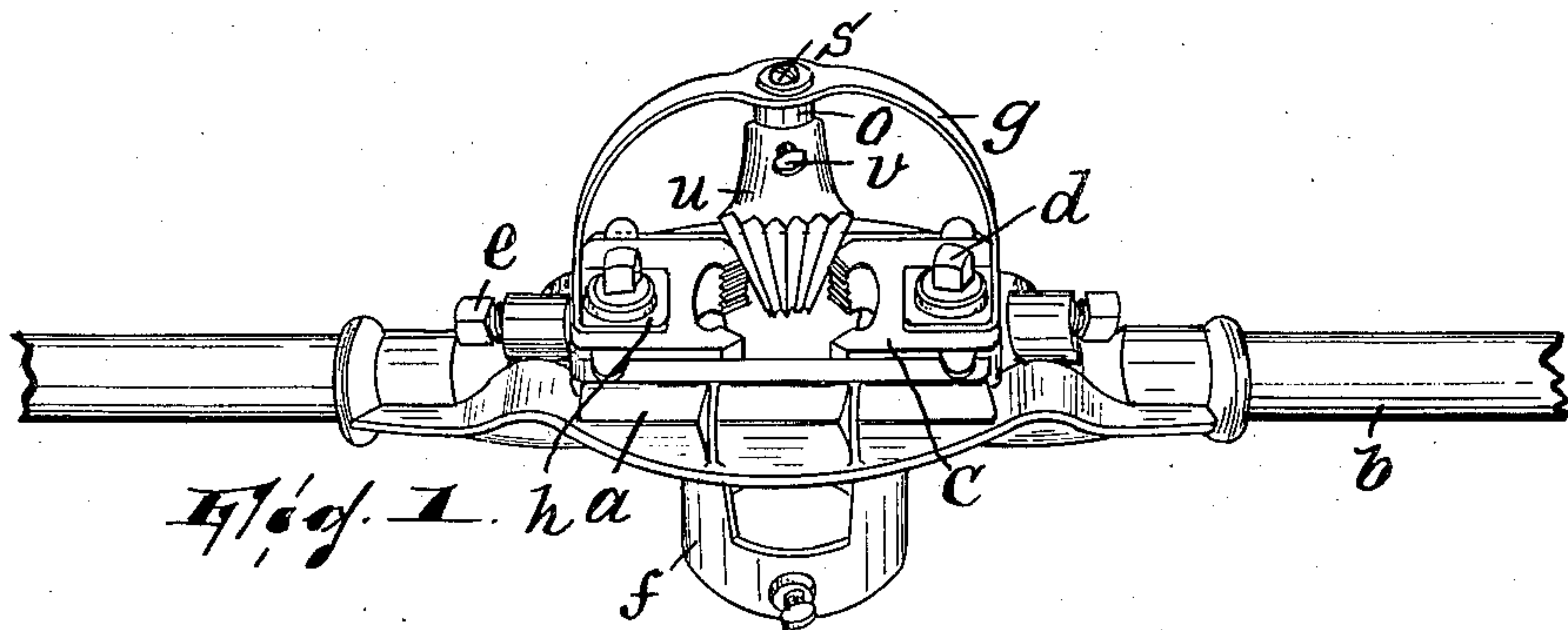


No. 849,880.

PATENTED APR. 9, 1907.

F. S. BARNES.  
REAMER ATTACHMENT FOR DIE STOCKS.  
APPLICATION FILED APR. 20, 1906.

2 SHEETS—SHEET 1.



WITNESSES:

*Wm. D. Bell.*  
*A. Glatt.*

INVENTOR,

*Frank S. Barnes,*

BY

*Garthman & Lewis,*  
ATTORNEYS,

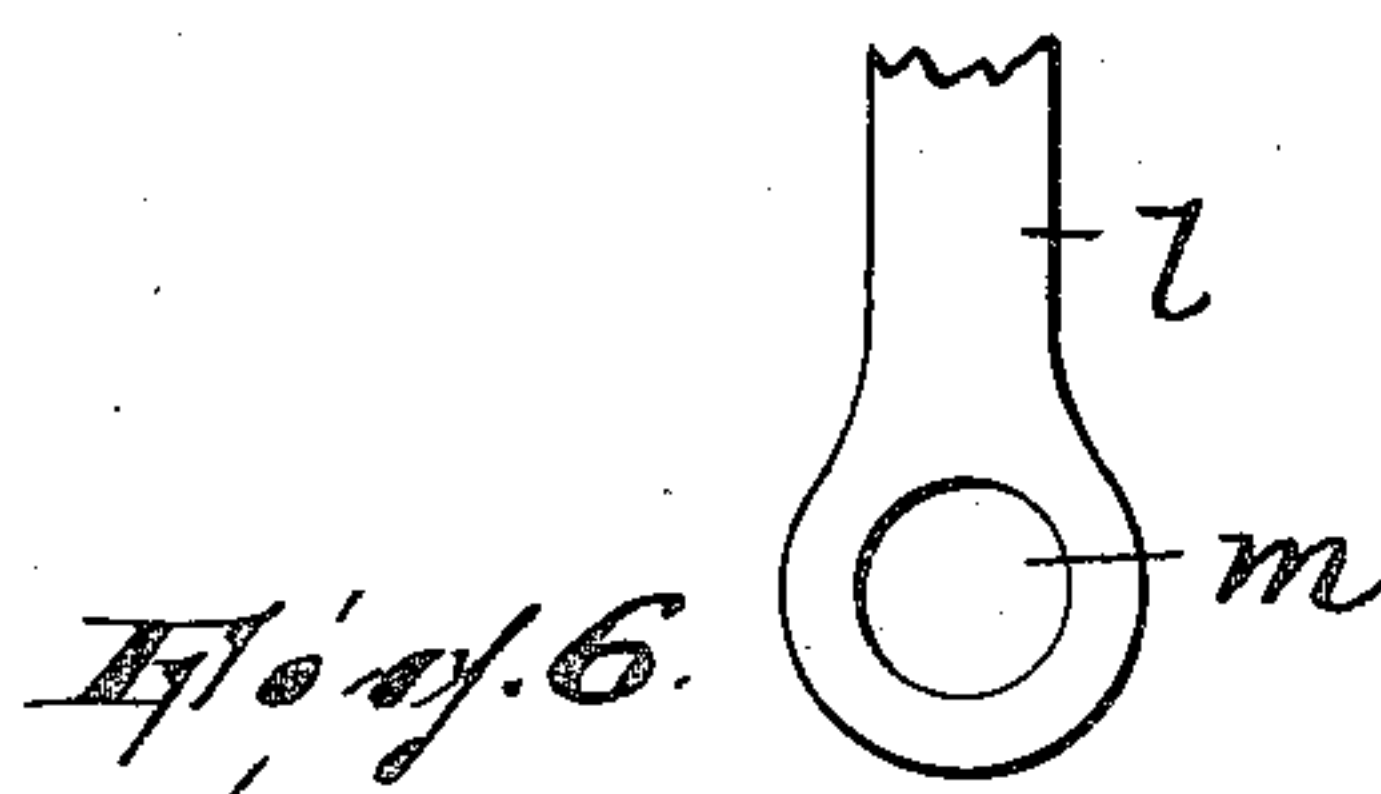
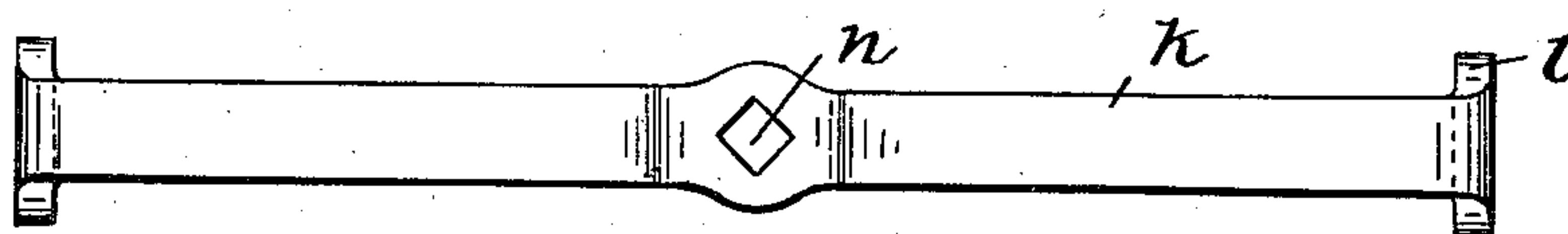
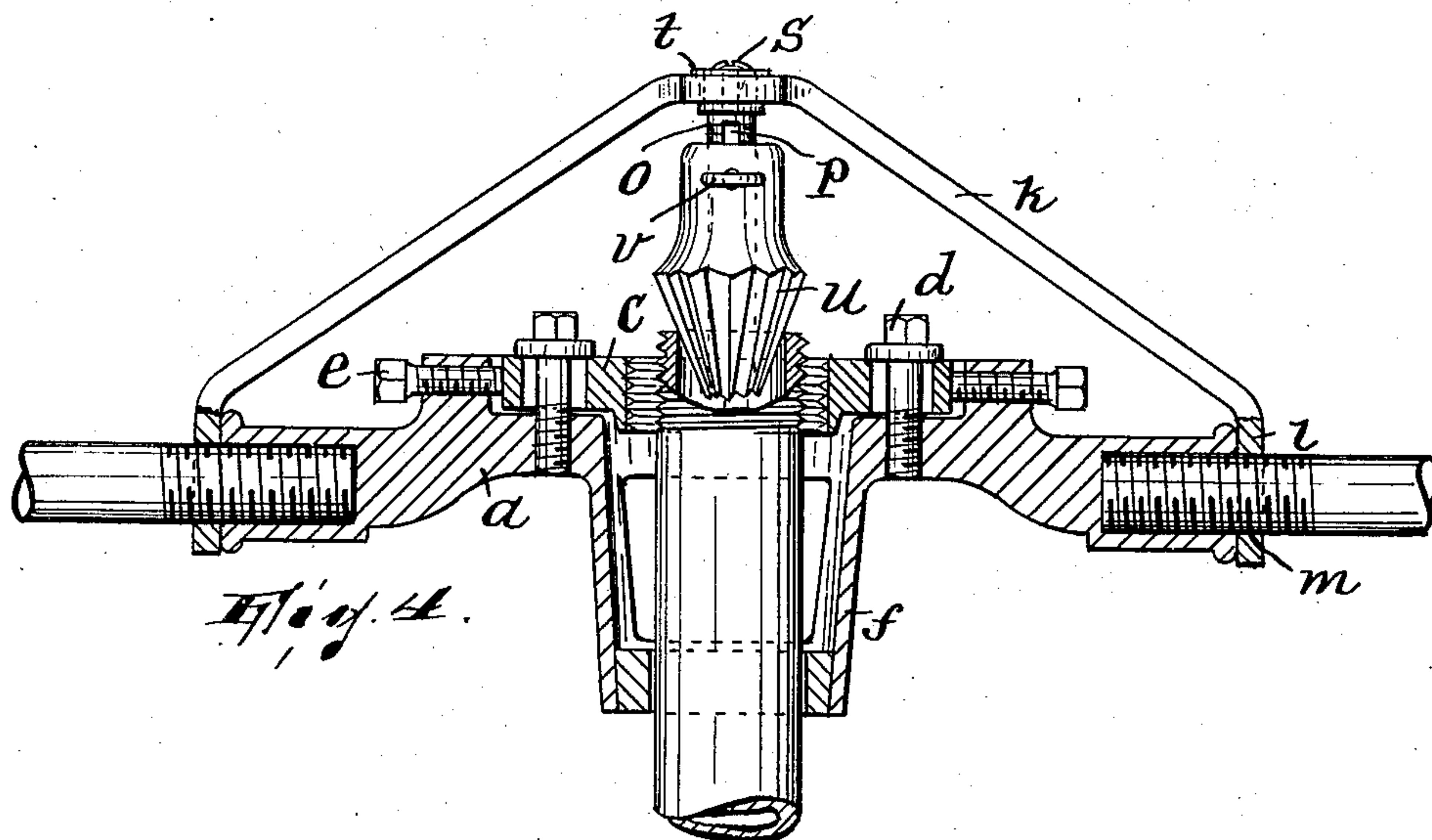
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*Garthurd Lewis,*  
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# UNITED STATES PATENT OFFICE.

FRANK S. BARNES, OF SUFFERN, NEW YORK.

## REAMER ATTACHMENT FOR DIE-STOCKS.

No. 849,880.

Specification of Letters Patent.

Patented April 9, 1907.

Application filed April 20, 1906. Serial No. 312,865.

*To all whom it may concern:*

Be it known that I, FRANK S. BARNES, a citizen of the United States, residing at Suffern, county of Rockland, State of New York, have invented certain new and useful Improvements in Reamer Attachments for Die-Stocks; and I do hereby 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 letters of reference marked thereon, which form a part of this specification.

My invention relates to reamer attachments for pipe-cutting die-stocks; and it consists in certain improvements having for their object to provide a device of this nature which while being comparatively inexpensive in construction and effective in operation is quickly and readily adjustable to different sizes of pipes to be reamed and is, furthermore, in one specific form thereof adapted for use with either of two well-known or standard forms of die-stocks.

My invention will be found fully illustrated in the accompanying drawings, wherein—

Figure 1 shows one form of my invention applied to a die-stock of the "Armstrong" type. Fig. 2 is a somewhat enlarged front view of the parts of the invention shown in Fig. 1 detached from the die-stock. Fig. 3 is a top plan view of what is shown in Fig. 2 with a certain screw and washer detached. Fig. 4 shows another form of my invention attached to a die-stock, the stock being shown in section and a portion of a pipe being also illustrated. Fig. 5 is a top plan view of the frame of my attachment shown in Fig. 4, and Fig. 6 illustrates a detail of said frame.

In the drawings, *a* is the body of an Armstrong die-stock; *b*, its handles, screwed into the same in the usual manner; *c*, its dies, adapted to be adjusted or set by means of adjusting-screws *d* and *e*, and *f* is the throat of the die-stock.

*g*, in Figs. 1, 2, and 3, is a curved frame having inturned extremities *h*, provided with openings *i*. Centrally of this frame is another opening *j*, which is preferably square. This frame is adapted to be secured to the die-stock, as shown in Fig. 1, by means of the screws *d*, which are made to penetrate the openings *i*, and thereby bind the extremities *h* to the stock.

In Figs. 4, 5, and 6 a frame *k* is illustrated whose extremities *l*, which are tapped at *m*, are parallel with each other, *n* being a central hole in the frame corresponding to the hole *j* of frame *g*. This type of frame may be adapted to either the Armstrong type or any other type of die-stock, such as the Saunders, which may not have screws corresponding to the screws *d*. The frame is attached in such instances by screwing the handles *b* into the extremities *l* of the frame, as well as into the die-stock. (See Fig. 4.)

*o* is a threaded stem having a groove *p* cut therein longitudinally thereof and also having a shoulder *q* near one end. Said end is squared, as at *r*, so that it is adapted to fit the hole *j* (or *n*) of the frame *g*, (or *k*.) In order to secure the stem to the frame, the squared end of the stem is tapped to receive a screw *s*, acting to bind a washer *t* against the top face of the frame.

*u* is the reamer, the same being preferably of rose form and having an internal threaded bore which receives the threaded stem *o*. *v* is a thumb-screw carried by the reamer and adapted to engage in the groove *p*.

The attachment having been secured to the pipe-stock and the frame, stem, and reamer being assembled, the stock is manipulated until nearly all of the desired number of turns of threading are formed on the pipe. The reamer is then adjusted by rotating it down on the threaded stem until it engages in the pipe end, whereupon the thumb-screw is set in the groove *p*. The work is then proceeded with until the final turns of the threading on the pipe are completed, during which last operation the reamer is of course working on the inside of the end of the pipe. It will be understood, of course, that further adjustment of the reamer will not be necessary if pipes subsequently to be threaded have the same diameter as the first one.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination, with a pipe-cutting die-stock, of a bowed frame attached thereto and having a non-circular opening formed axially of the die-stock, a threaded stem extending axially of the die-stock and having a non-circular end fitted into said opening and a shoulder bearing against one face of the frame, means, cooperating with said shoulder

and bearing against the other side of the  
frame, for securing the stem in the frame, a  
reamer arranged on, and having threading  
engaging that of, the stem, and a screw car-  
ried by the reamer and adapted to bear  
against the stem, substantially as described.

In testimony that I claim the foregoing I

have hereunto set my hand this 14th day of  
April, 1906

FRANK S. BARNES.

Witnesses:

JOHN W. STEWARD,  
WM. D. BELL.