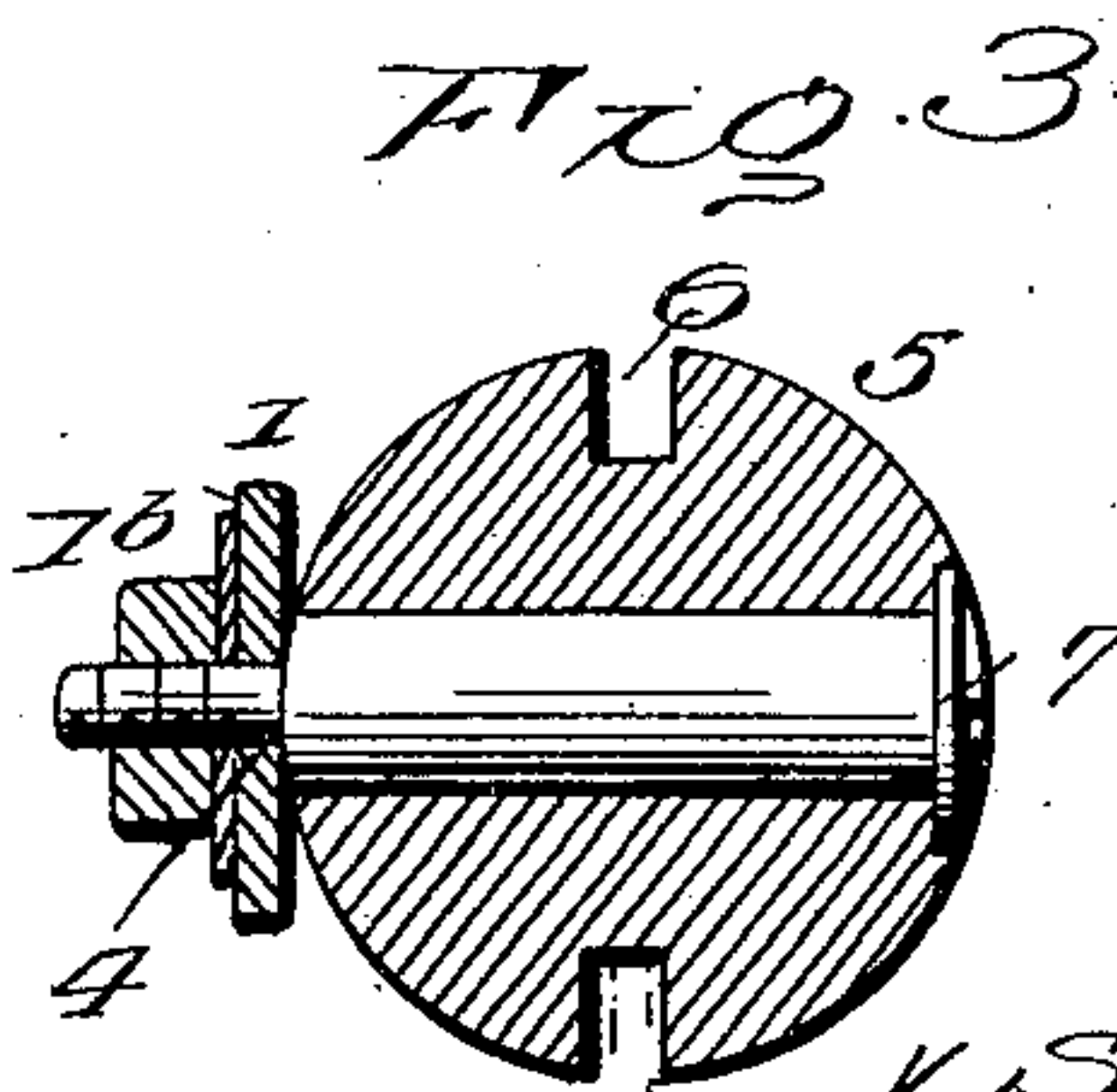
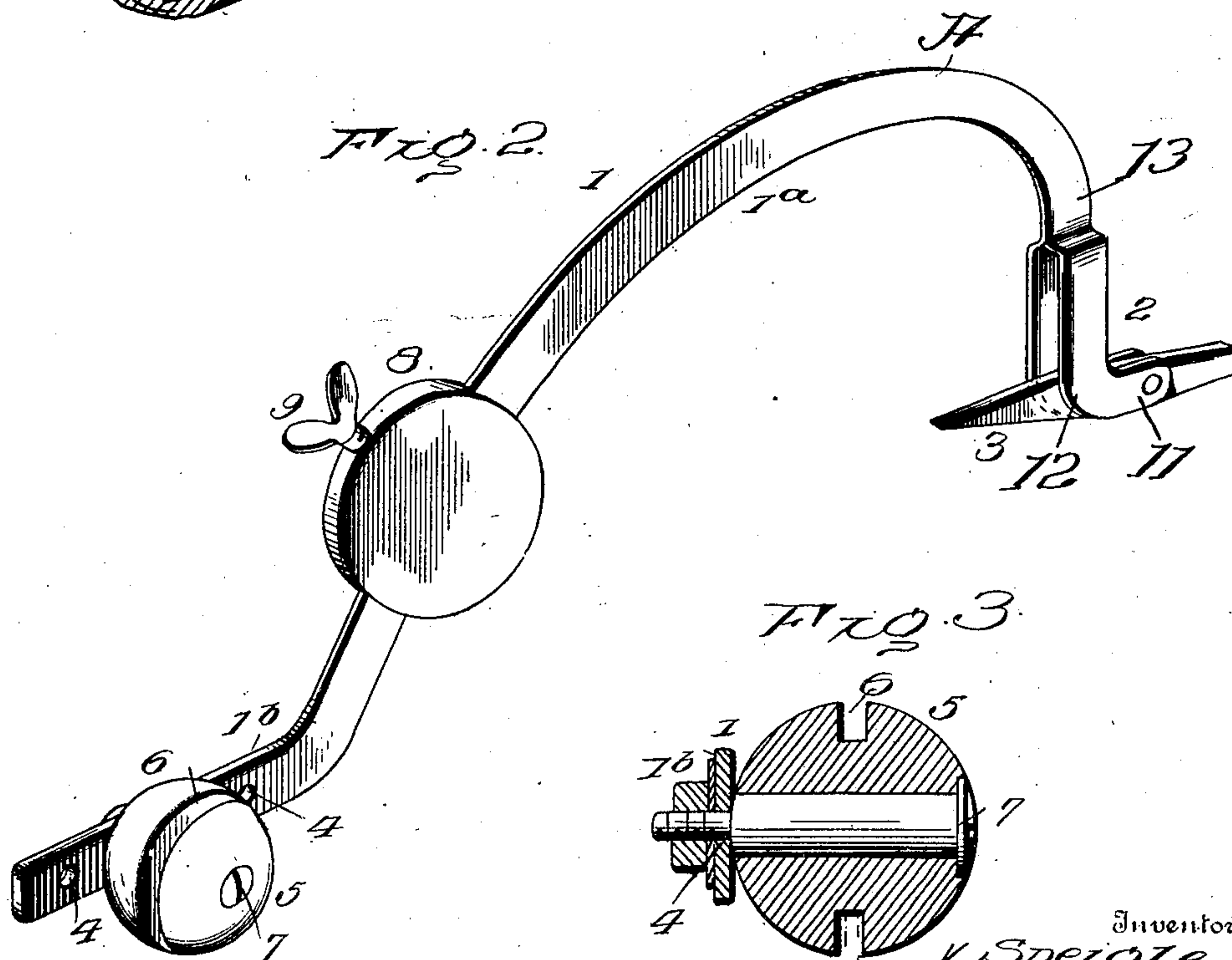
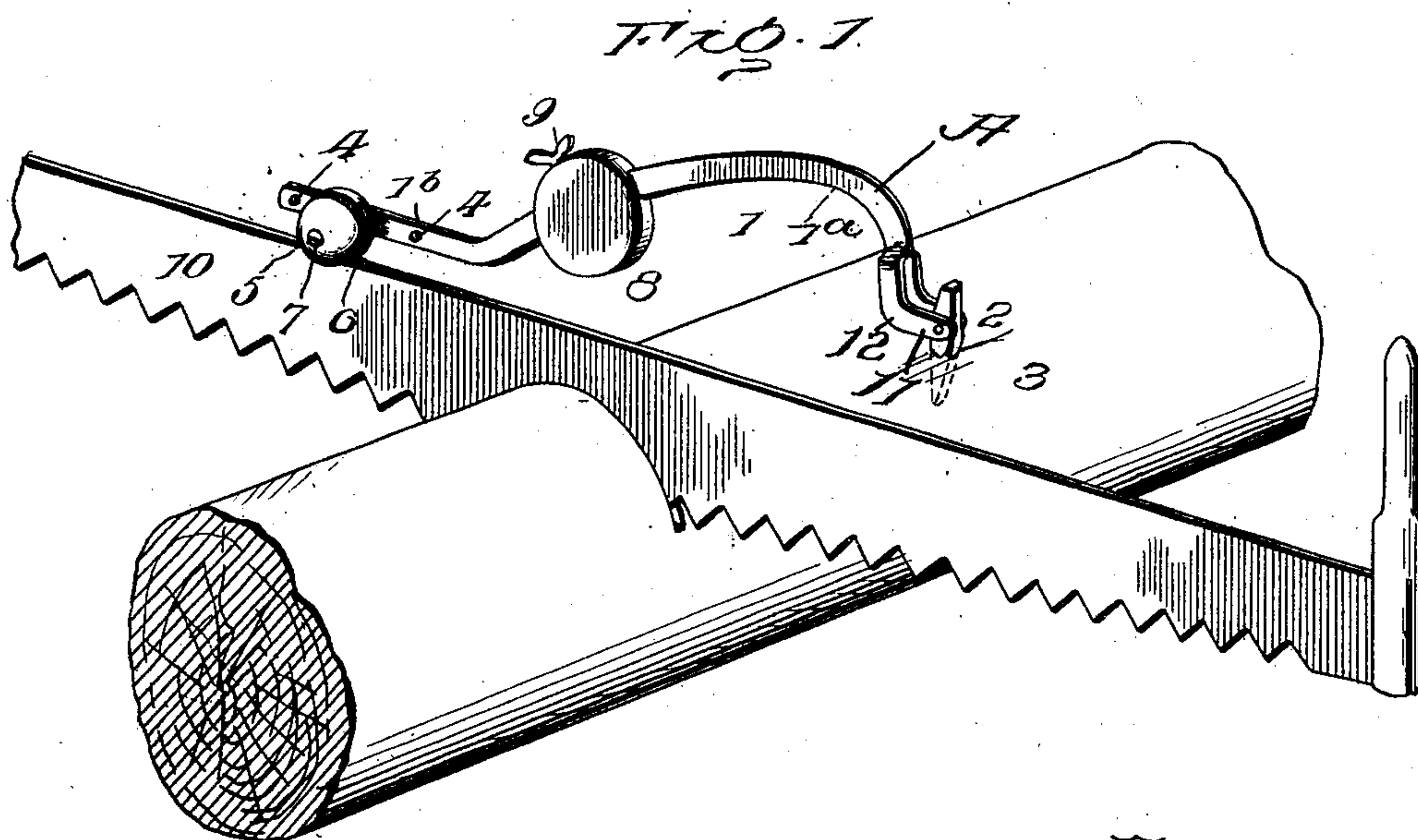


No. 754,356.

PATENTED MAR. 8, 1904.

V. SPEIGLE.
SAWING APPLIANCE.
APPLICATION FILED SEPT. 1, 1903.

NO. MODEL.



Witnesses

Witnesses
 Jm. Munn
 Bro. P. S. S.

By

R. M. Racy, Attorney

UNITED STATES PATENT OFFICE.

VERN SPEIGLE, OF BROKENSWORD, OHIO.

SAWING APPLIANCE.

SPECIFICATION forming part of Letters Patent No. 754,356, dated March 8, 1904.

Application filed September 1, 1903. Serial No. 171,553. (No model.)

To all whom it may concern:

Be it known that I, VERN SPEIGLE, a citizen of the United States, residing at Broken-sword, in the county of Crawford and State of Ohio, have invented certain new and useful Improvements in Sawing Appliances, of which the following is a specification.

This invention provides an appliance for use in connection with drag or crosscut saws; and it consists, essentially, of guide means for directing the movement of the saw, at the same time comprising an attachment which in its co-operation with the saw obviates the necessity of the employment of two men in the operation of the saw in cutting large work, such as logs or the like.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and drawings hereto attached.

While the essential and characteristic features of the invention are susceptible of modification, still the preferred embodiment of the invention is illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of the appliance, showing the application thereof in sawing a fallen log. Fig. 2 is a perspective view of the appliance alone. Fig. 3 is a sectional view through the appliance.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The appliance comprises a guide-bar 1, which consists of a curved body portion 1^a and a straight end 1^b. The end of the bar 1 opposite the portion 1^b is bifurcated to provide spaced arms 2, which receive therebetween a dog 3, pivotally mounted and constituting anchoring means for positioning the bar 1 in the operation of sawing. The forward straight end 1^b of the bar 1 is provided with a plurality of openings 4, and mounted upon this portion of the bar is a roller-guide 5, provided with an annular groove 6 to receive the back of the saw-blade to guide the same in its reciprocal movement. The roller-guide 5 is

preferably of ball form and is held in position by means of a bolt or like part 7, which passes through a selected one of the openings 4, thereby securing the guide-roller to the bar 1. The roller 5 is thus adapted for adjustment in its relative position upon the bar 1, the adjustment depending upon the size of the log or other part which is to be sawed. A weight 8 is also mounted upon the guide-bar 1, being provided with an opening therethrough which receives the bar aforesaid. The weight is adapted for fixed adjustment by means of a set-screw 9, carried thereby, in a manner readily seen. The weight 8 upon the bar 1 serves as a pressure means upon the free end of the saw 10 and compensates for the pressure which would be ordinarily exerted by manual effort at this point, but which because of the provision of such weight is obviated. The adjustment of the weight 8 may also to a certain extent fix the adjustment upon the straight end portion 1^b of the bar 1, at which the roller-guide should be disposed. The nearer the end of the bar 1 the guide is disposed in its coöperating relation with the weight 8 necessarily exerts a greater amount of pressure upon the saw, and vice versa.

The appliance is simply constructed, the parts being preferably made of metal and as substantial as necessary for the purpose of the invention.

The bar 1 is of elbow form at its attaching end, as indicated at A, to admit of the long arm clearing the saw when the parts are properly positioned preliminary to beginning the work. The end portion of the bar carrying the dog 3 is rearwardly bent, as shown at 11, to bring the dog 3 wholly in the rear of the arm 13 to receive the blows delivered thereon when driving the dog home into the work and to provide a fulcrum and stop 12. The parts may be adjusted so that when the saw has nearly cut through the log the fulcrum 12 will come in contact with the log and limit the downward movement of the guide at its outer or front end, thereby permitting the weight of the saw to carry it through the work in the finishing strokes. In limiting the downward movement of the bar at its free end the part 12 acts as a stop. When it is required

to withdraw the dog 3 from the log or work after finishing a cut, the bar is moved until the fulcrum 12 is brought in contact with the log, and by pressing down upon the outer end of the bar the dog is loosened and readily detached without necessitating the employment of a pry or other tool.

Having thus described the invention, what is claimed as new is—

10 1. In a saw-guide, a bar provided at one end with saw-engaging means and having the opposite end portion bent about at a right angle, thence rearwardly to form a fulcrum and stop, and a dog pivotally connected to the said rear
15 extension, substantially as set forth.

2. In a saw-guide, a bar provided at one end with saw-engaging means and having its opposite end portion of elbow form and terminating in a rear forked extension forming a

fulcrum and stop, and a dog pivoted between the fork members, substantially as specified. 20

3. The saw-guide substantially as herein specified, the same consisting of a bar having one end straight, the opposite end of elbow form and the intermediate portion curved, the terminal portion of the elbow being forked and rearwardly extended to form a fulcrum and stop, a dog pivoted between the extremities of the rear extension, a weight adjustable on the curved portion of the bar and a roller-guide adjustably fitted to the straight end of the bar, substantially as set forth. 25 30

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

VERN SPEIGLE. [L. s.]

Witnesses:

LOUIS F. SMITH,
JOHN H. SMITH.