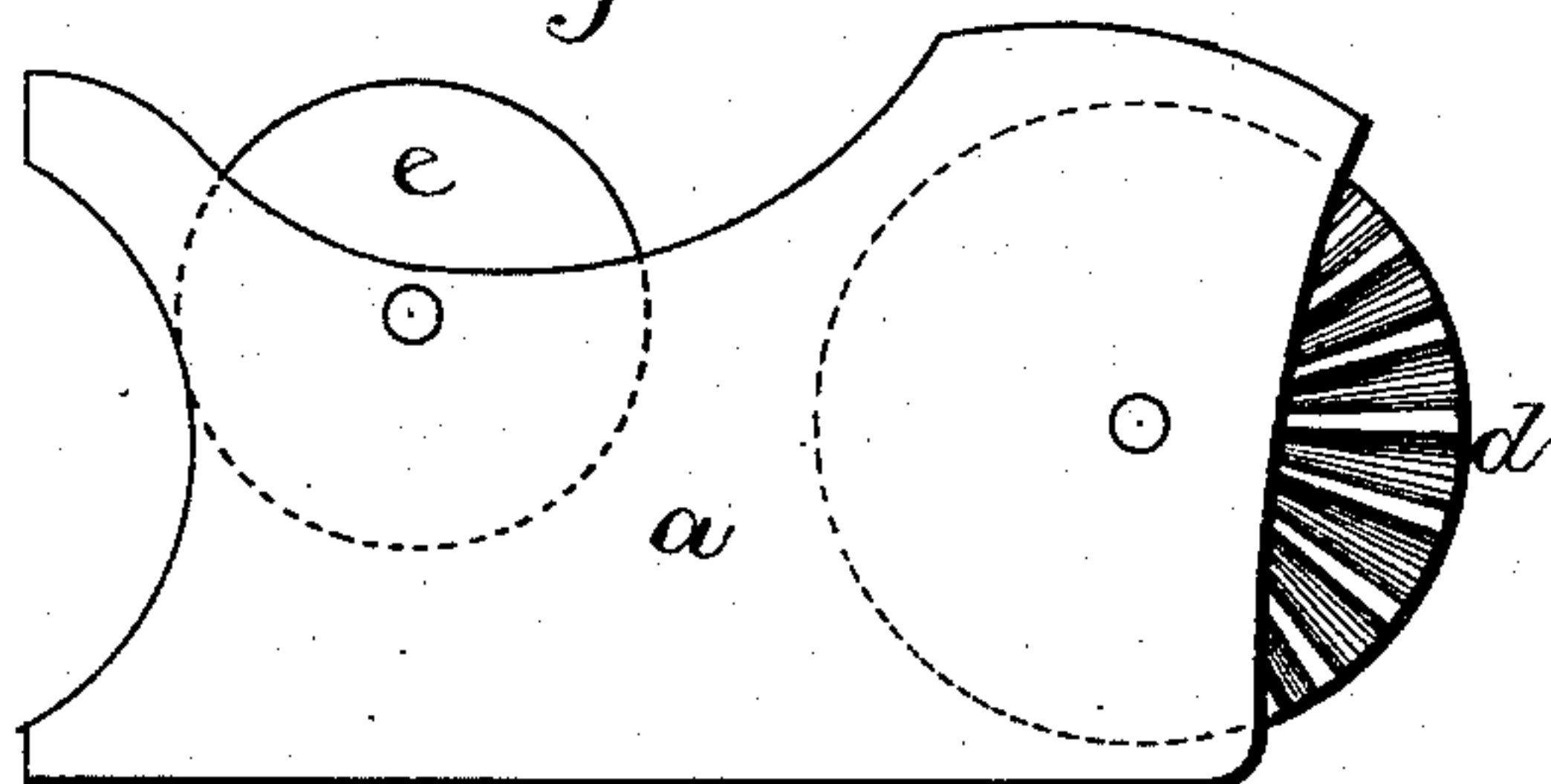


S. HOLTON.  
Saw-Set.

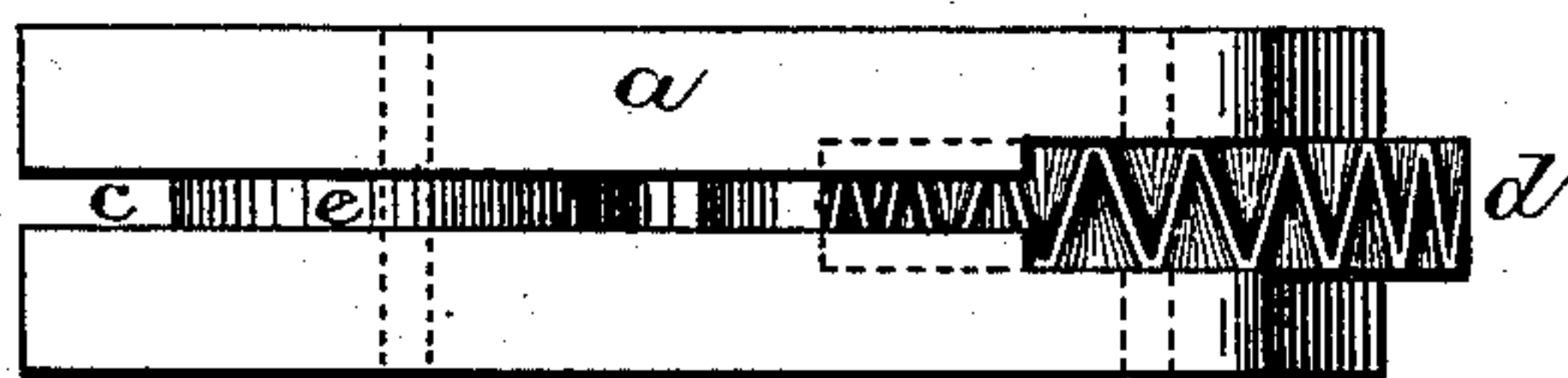
No. 221,820.

Patented Nov. 18, 1879.

*Fig. 1.*



*Fig. 2.*



Witnesses:

*J. W. Garner*  
*Wm. H. Mortimer*

Inventor:

*Saml. Holton,*  
*per*  
*F. A. Lehmann,*  
*Atty.*

# UNITED STATES PATENT OFFICE.

SAMUEL HOLTON, OF HENDERSON, TEXAS.

## IMPROVEMENT IN SAW-SETS.

Specification forming part of Letters Patent No. **221,820**, dated November 18, 1879; application filed September 26, 1879.

*To all whom it may concern:*

Be it known that I, SAMUEL HOLTON, of Henderson, in the county of Rusk and State of Texas, have invented certain new and useful Improvements in Saw-Sets; 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in saw-sets; and it consists in a suitable holding-frame, a wheel having a fluted edge, and a smooth wheel, which runs along upon the tops of the teeth, whereby the teeth are set by running the fluted wheel back and forth over the teeth, as will be fully described hereinafter.

Figure 1 is a side elevation of my invention, and Fig. 2 is an inverted view of the same.

*a* represents a suitable frame, of any desired form or size, and which is cast in a single piece. Through the lower edge of this frame is made a straight narrow slot, *c*, so that the frame can fit down over the edge of the saw. Journaled in this frame at its front end is the steel wheel *d*, which has its edge fluted, as shown, so that, as it is pressed down upon the teeth and rolled along on top of them, the flutes alternately press the teeth first to one side and then the other. This wheel is made removable from the frame by simply taking its journal out, so that wheels having different-sized flutes may be used, according to the size of the teeth of the saw.

Journaled in the frame *a* at its rear end, and considerably higher than the wheel *d*, is the smooth wheel *e*, which simply runs along upon the top of the teeth, so as to prevent any part of the frame from bearing down upon them. By means of this wheel the frame can be run rapidly back and forth along over the teeth without any binding or wear upon the frame or teeth.

To set a saw it is only necessary to place a wheel, *d*, in the frame, having the proper-sized flutes, and then, while bearing down upon the teeth, move the frame one or more times back and forth along the teeth. The flutes in the wheel almost instantly set the teeth at a uniform angle.

I am aware that a saw-set composed of two intermeshing wheels, which bear against the sides of the teeth, so as to alternately set a tooth, is not new, and this I disclaim.

My invention consists of a single wheel having a fluted edge, and which rolls along on top of the teeth.

Having thus described my invention, I claim—

The combination of the frame *a*, having the slot *c*, with the fluted wheel *d* and smooth wheel *e*, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand this 18th day of September, 1879.

SAMUEL HOLTON.

Witnesses:

H. R. RAY,  
W. J. CROW.