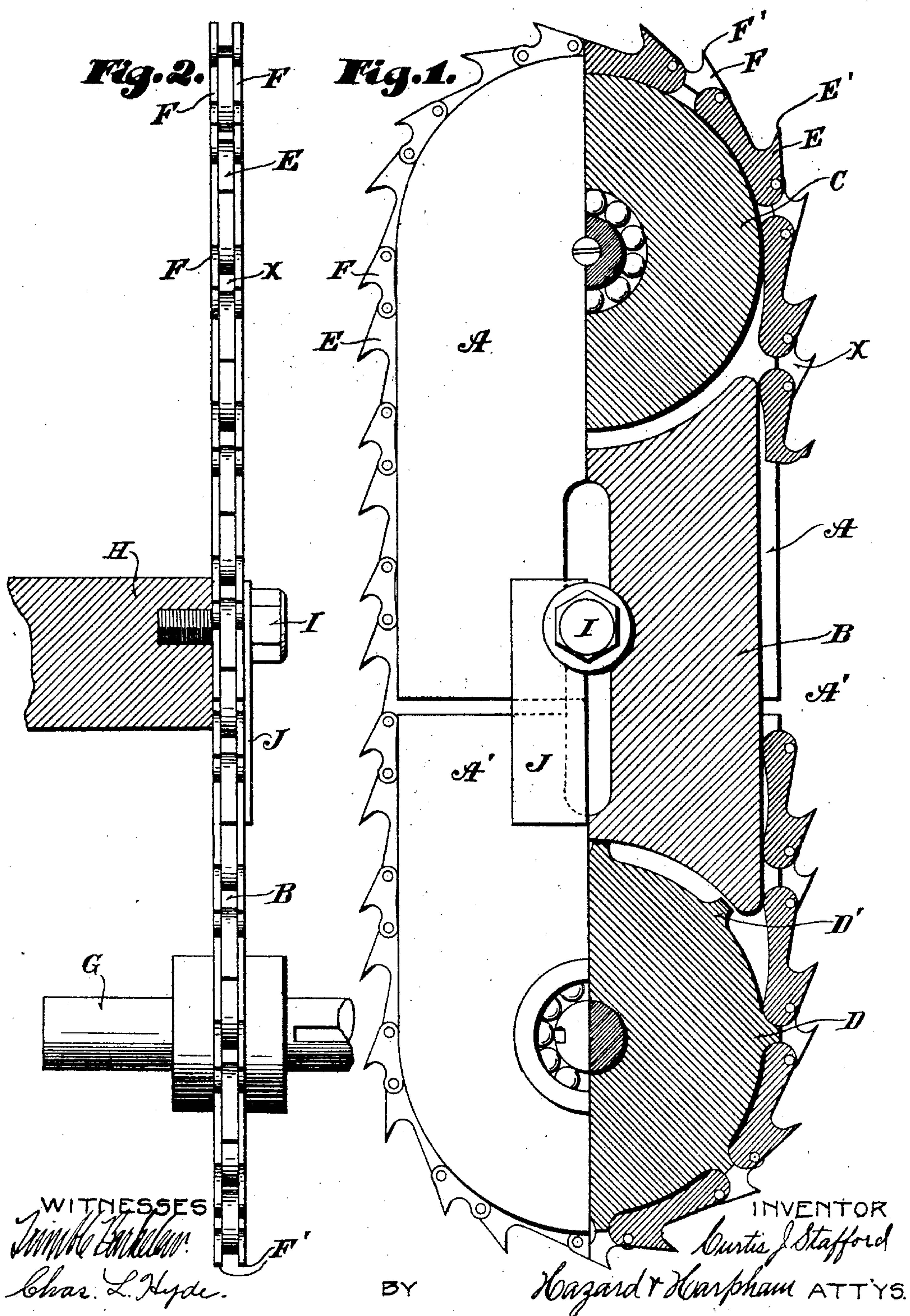


No. 803,369.

PATENTED OCT. 31, 1905.

C. J. STAFFORD.  
MORTISING MACHINE.  
APPLICATION FILED JULY 27, 1904.





# UNITED STATES PATENT OFFICE.

CURTIS J. STAFFORD, OF BAKERSFIELD, CALIFORNIA.

## MORTISING-MACHINE.

No. 803,369.

Specification of Letters Patent.

Patented Oct. 31, 1905.

Application filed July 27, 1904. Serial No. 218,430.

*To all whom it may concern:*

Be it known that I, CURTIS J. STAFFORD, a citizen of the United States, residing at Bakersfield, in the county of Kern, State of California, have invented new and useful Improvements in Mortising-Machines, of which the following is a specification.

My invention has relation to means to make mortises in doors and the like; and the object is to provide a simple machine which will rapidly make a mortise and leave the mortise clean of all cuts and burs and will be convenient of access and simple in its operation. I accomplish these objects by means of the device described herein and shown in the accompanying drawings, in which—

Figure 1 is a side elevation of a mortising-machine embodying my invention, one-half thereof being in central vertical section. Fig. 2 is an edge view of the same, showing the table or support to which the machine is bolted.

In the drawings, A represents the supporting side plates or frame of the machine, and B represents the core or center frame shown in vertical section in Fig. 1. Between these side plates are rotatably mounted in the upper end a disk C and in the lower end a sprocket-wheel D. In the drawings is shown a composite endless cutting-chain made up of a plurality of cutters or cutting-links E and F. The cutters E and F carry on their outer edges cutting-points E' and F', respectively. The central cutters E are pivotally secured between the outer cutters F and together form an endless cutting sprocket-chain extending around the disk and sprocket-wheel, as above stated. The sprocket-teeth D' project out and into the space X between ends of the cutters E E, and thereby compel the sprocket-chain to move with the sprocket-wheel, which is keyed on the driving-shaft G, from which power is obtained to operate the device.

In order to provide means to give the proper tension to the cutting sprocket-chain, I have divided the side plates into upper and lower members A and A', respectively, in order that they may be spread apart, and thereby tighten the chain, and to hold these plates in their adjusted position I have also provided the adjusting-plate J, which extends over and bears against these side plates. The bolt I passes through and carries the adjusting-plate, and when the device is bolted in place, as on the support H, it will bind the adjusting-plate J frictionally tight against these plates and prevent the movement of the side plates with reference to each other and at same time hold the device in place on the support. By this means any undesirable slack in the chain is easily removed.

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

1. A mortising-machine, comprising a core or center frame, supporting side plates, means for adjustably securing them, a disk, sprocket wheel and chain extending over the disk and sprocket-wheel and between the edges of the side plates.

2. In a mortising-machine, the combination with a core or center frame, supporting side plates, disk, sprocket-wheel and endless cutting-chain extending over said disk and sprocket-wheel, of a support H, an adjusting-plate J and bolt I for binding the adjusting-plate frictionally tight against the side plates.

In witness that I claim the foregoing I have hereunto subscribed my name this 20th day of July, 1904.

CURTIS J. STAFFORD.

Witnesses:

FRANK C. ASTON,  
JOHN B. JAMES.