

(Model.)

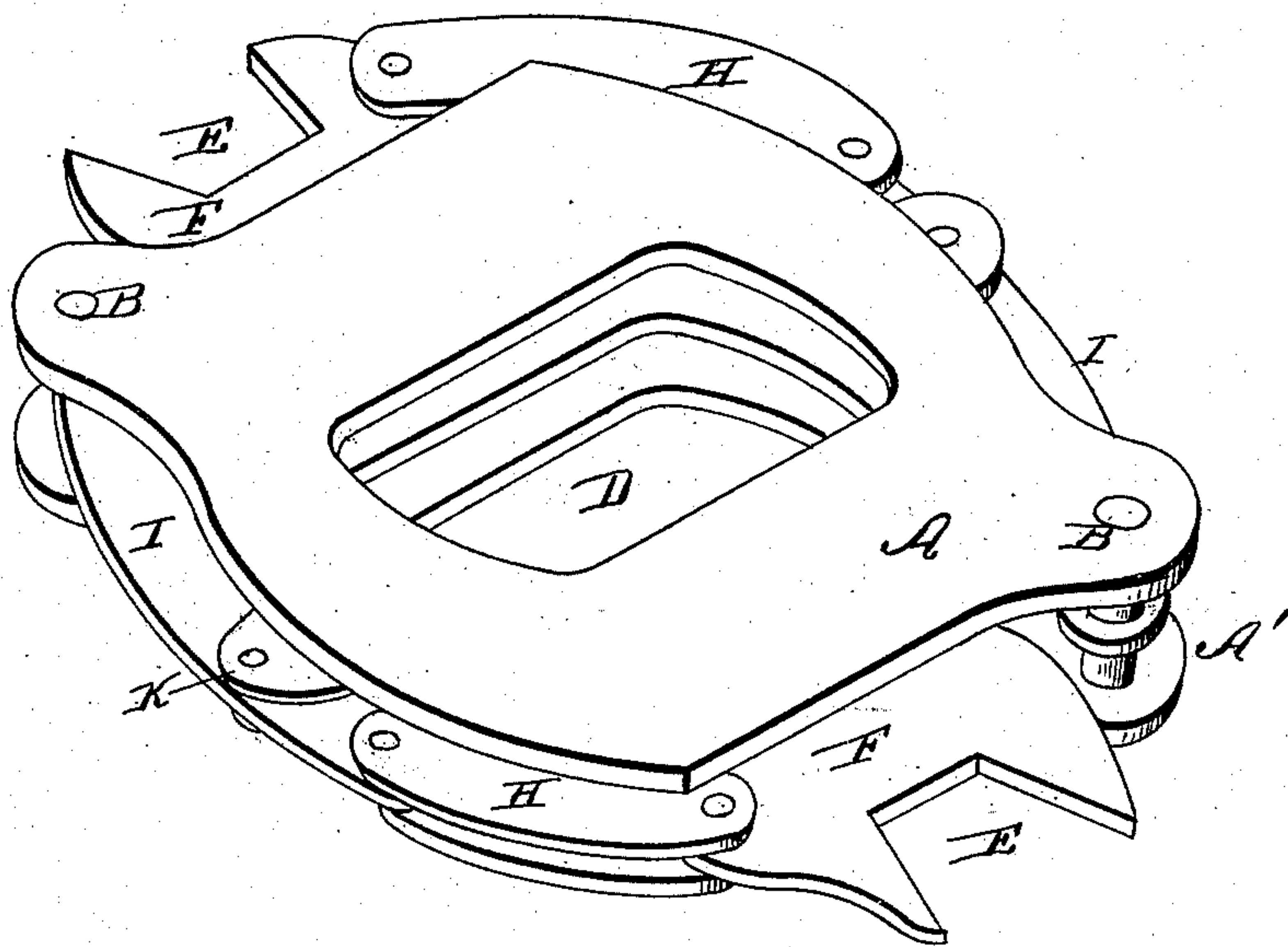
2 Sheets—Sheet 1.

S. C. La HATT.  
Millstone Driver.

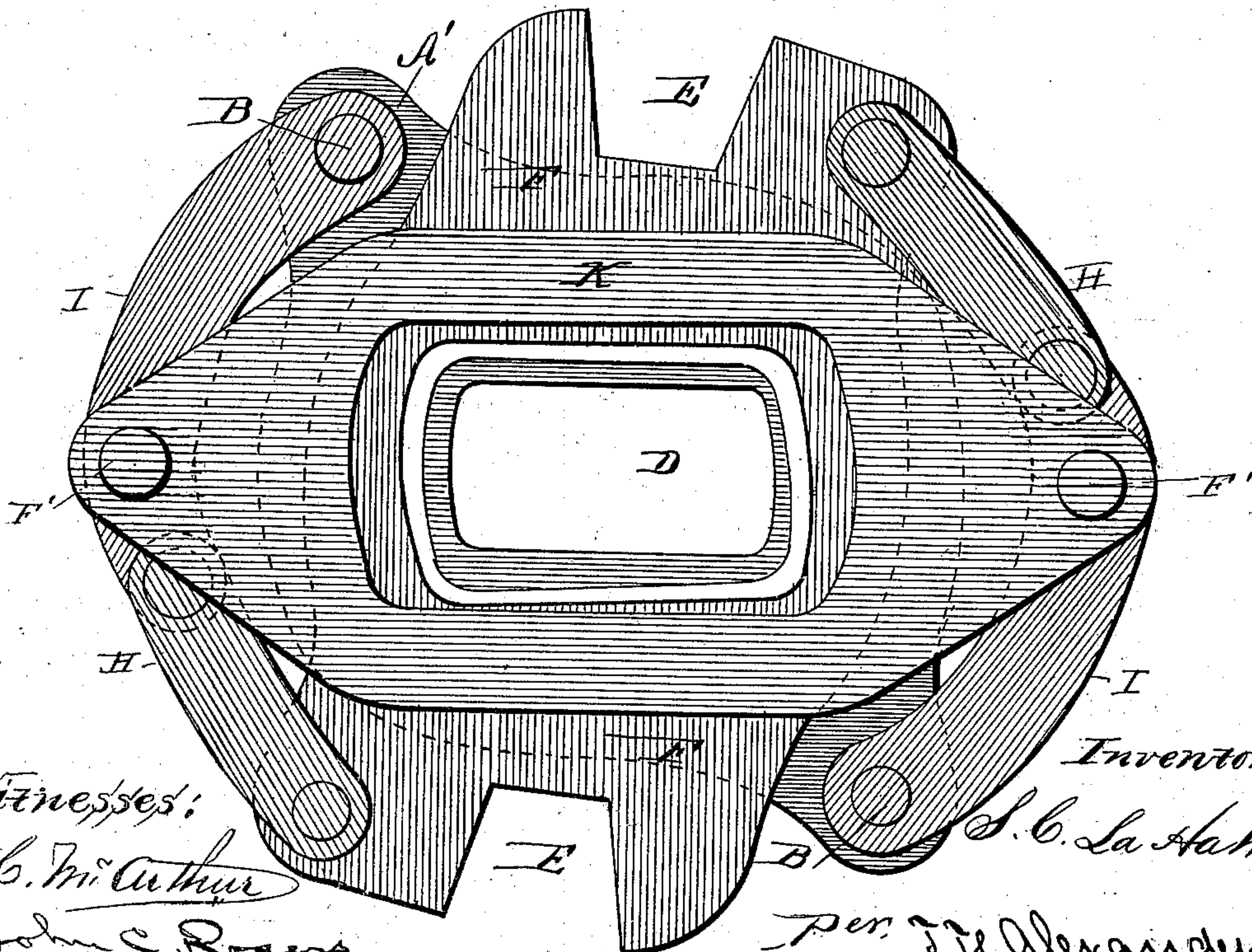
No. 237,293.

Patented Feb. 1, 1881.

*Fig. 1.*



*Fig. 2.*



Witnesses:

*A. C. McArthur*

*John C. Rogers*

Inventor.

*S. C. La Hatt.*

*Per J. H. Alexander*  
Attorney.

(Model.)

2 Sheets—Sheet 2.

S. C. La HATT.  
Millstone Driver.

No. 237,293.

Patented Feb. 1, 1881.

Fig. 3.

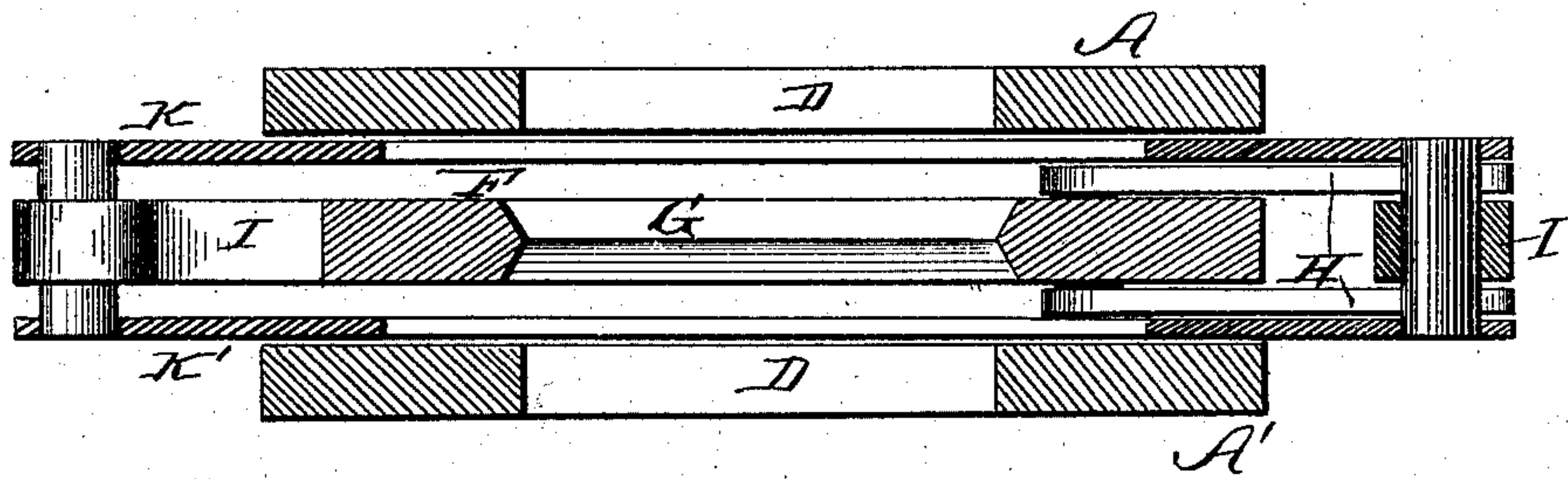
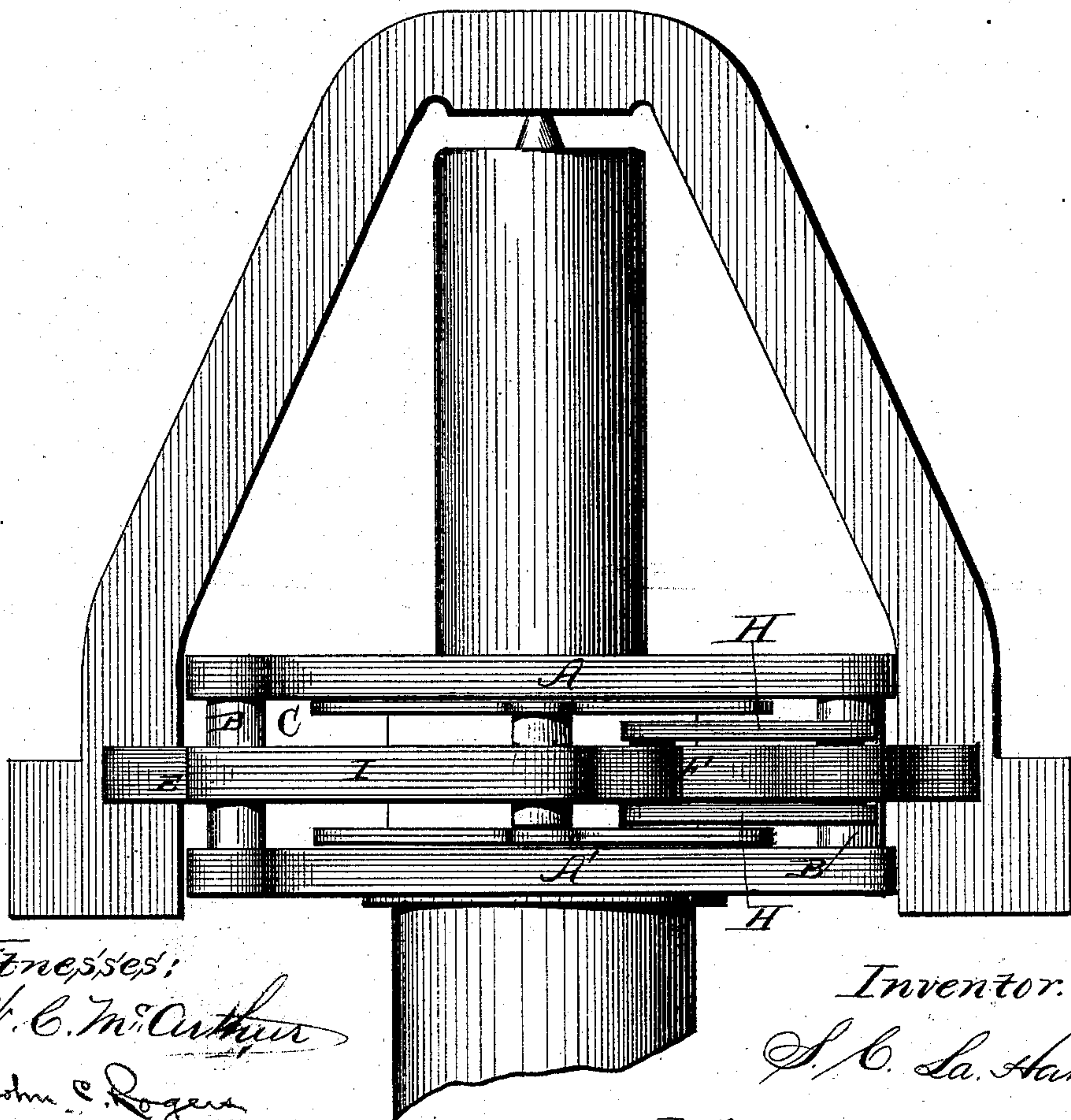


Fig. 4.



Witnesses:

W. C. McCutcheon  
John C. Rogers

Inventor.

S. C. La Hatt.

Per

J. G. Alexander  
Attorney.



# UNITED STATES PATENT OFFICE.

SIDNEY C. LA HATT, OF MINNEAPOLIS, MINNESOTA.

## MILLSTONE-DRIVER.

SPECIFICATION forming part of Letters Patent No. 237,293, dated February 1, 1881.

Application filed July 26, 1880. (Model.)

*To all whom it may concern:*

Be it known that I, SIDNEY C. LA HATT, of Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Millstone-Drivers; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

The object of this invention is to provide a millstone-driver, to be employed in connection with the upper or running stone of a mill and the spindle thereof, whereby the said upper or running stone may be driven, and at the same time left absolutely free to accommodate itself to the bed-stone, as more fully hereinafter specified. This I accomplish by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 represents a perspective view of my improved millstone-driver; Fig. 2, a top view thereof, with the upper plate removed, showing the parts of said driver and their relative arrangement; Fig. 3, a vertical sectional view of my improved driver, and Fig. 4 a side elevation, showing the driver applied to the millstone-bail, and the mechanism for operating the same.

The letters A A' indicate two metallic plates, which are joined or connected together by bolts or pins B, forming the frame of the driver, having an intermediate space, C, in which the movable parts of the said driver are confined. The plates, at points directly opposite, are provided with squared or approximately rectangular apertures D, by means of which the device may be fitted to the driving-spindle of the apparatus.

The letter F indicates a plate having lateral jaws or clutches E, extending beyond the edges of the plates A A', and adapted to embrace the heels of the driving-bail of the mill. The said plate F is provided with a central aperture, G, corresponding in general configuration with the apertures in the plates A A', so that the said plate F may be free to move

laterally about the mill-spindle. The plate F, at diagonally opposite corners, is pivoted to links H, which are loosely connected to the bolts F', to which are similarly connected the links I, which are pivoted to the diagonally-opposite bolts B connecting the plates A A'.

The letters K and K' indicate two plates, located one on each side of the plate F, between the same and the respective plates A A'. The said plates K and K' are pivoted, at opposite ends, to the bolts F', connecting the links H and I in such manner that when the plates A A' are rigidly secured to the millstone-spindle the plate F will be capable of a swinging movement on its links diagonally to the plates A A' in one direction, while the plates K K' on the links I will be capable of a diagonal movement in an opposite direction to the said plates A A', thus permitting the proper play of the hanger.

The operation of my invention is as follows: The device or driver is fitted upon the squared portion of the mill-spindle in the usual manner, and the heels of the bale are set between the respective jaws or clutches E of the plate F, which serve, when rotation is imparted to the spindle, to carry the running stone with it.

The advantages of my improved driver are that it can be readily fitted to any spindle and bale; that it will compensate for "backlash;" that it can be readily applied to a stone whether running against or with the sun, by simply reversing its position; and that it will automatically adjust itself, while running, to the lower stone, even if the same should be set somewhat out of trim, and thus insure a uniform and more rapid grinding of the grain.

I am aware that millstone-drivers provided with movable jaws or clutches to embrace the heels of the bail have heretofore been employed, and such, therefore, I do not claim broadly.

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

The combination, with the plates A A',

adapted to be secured to the spindle, of the plates K K', connected to the said plates A A' by the links I, and the plate F, having jaws E, to clutch the driving-bail, the said plate  
5 being connected, by links H, to the plates K K', whereby the respective plates E and K K' are permitted to play diagonally in opposite directions with respect to the plates A A', substantially as specified.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

SIDNEY C. LA HATT.

Witnesses:

SAMUEL DIMOND,  
FLORA A. HADLEY.