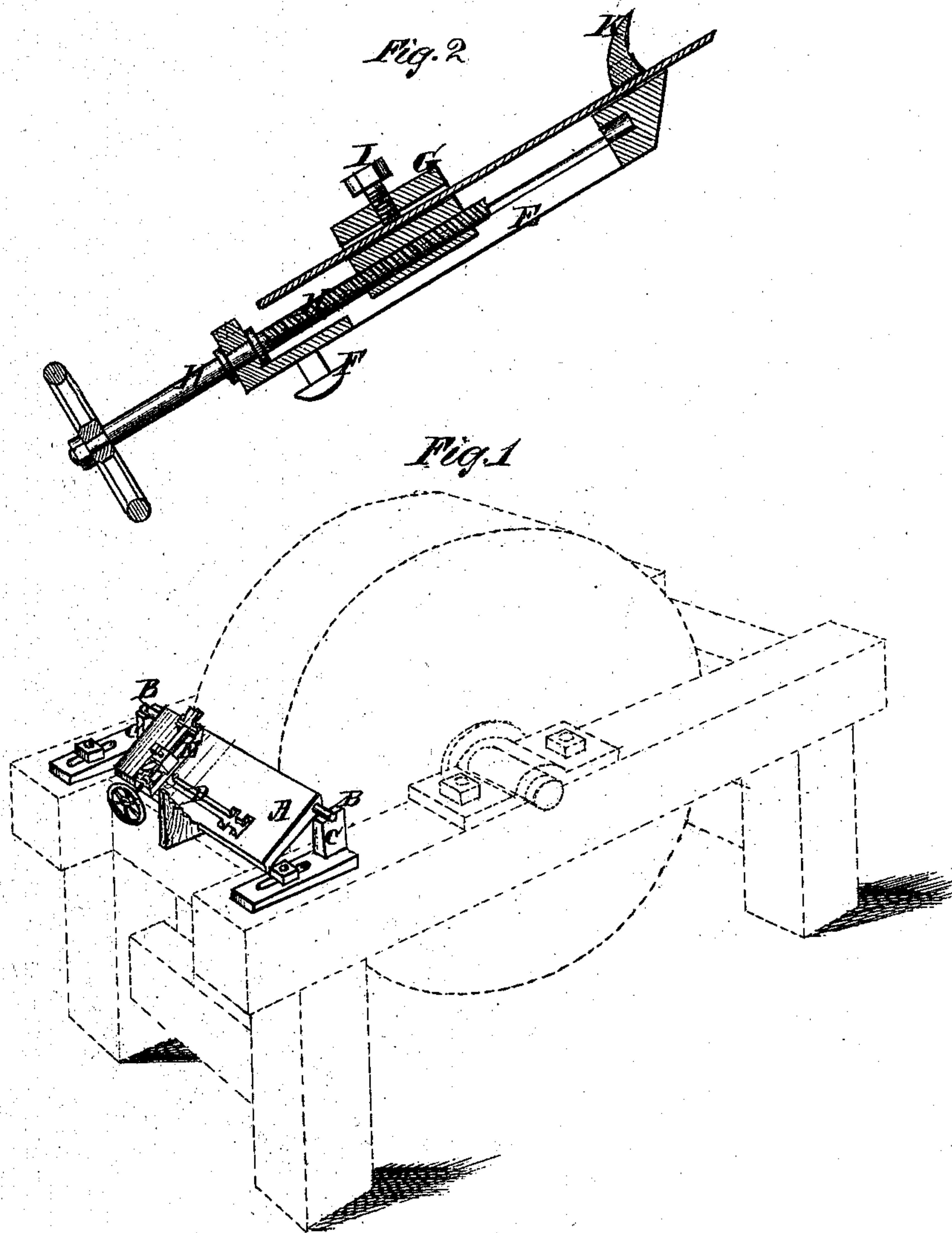


*P. Leonard,*

*Tool Holder for Grindstones.*

*No. 97,656.*

*Patented Dec. 7, 1869.*



**Witnesses:**  
*John Becker.*  
*Alex F. Roberts*

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# United States Patent Office.

PHILIP LEONARD, OF SHARON, PENNSYLVANIA.

*Letters Patent No. 97,656, dated December 7, 1869.*

## IMPROVEMENT IN TOOL-HOLDER FOR GRINDSTONES.

The Schedule referred to in these Letters Patent and making part of the same.

### *To all whom it may concern:*

Be it known that I, PHILIP LEONARD, of Sharon, in the county of Mercer, and State of Pennsylvania, have invented a new and improved Tool-Holder for Grindstones; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to improvements in tool-holding attachments for grindstones, and consists of a plate, arranged for oscillating in front of the face of the grindstone, and a carriage mounted thereon, to slide back and forth, and carrying an adjustable tool-holder mounted on the said carriage, and capable of feeding toward or from the stone, the whole being arranged to hold the tool in contact with the stone, and to move it back and forth across the face, in a way to grind the edges truly, and at any required bevel.

Figure 1 represents a perspective view of my improved attachment applied to a grindstone, the latter being shown in dotted lines.

Figure 2 represents a sectional elevation of the carriage and holder.

Similar letters of reference indicate corresponding parts.

A is a plate, provided with journals B at the ends and near one edge, and mounted in bearings C, on the frame of the stone, so that one edge will rest on the frame in a way to maintain the said plate in an inclined position.

The bearings C are made adjustable to or from the stone, and may be so connected as to be readily detached or not.

This plate is provided with a slot, D, arranged parallel with the face of the stone.

E is a carriage, mounted on the face of the plate A, and provided with a headed guide, F, working in the slot, to hold it in place when sliding thereon. The slot is widened at one end for the head of this guide.

G is a tool-holder, mounted on the carrier E, and arranged to slide along the top thereof, to or from the stone, on suitable ways prepared for it.

H is a feed-screw, mounted in the carriage, and screwing through the holder, to move it forward and back.

The holder is provided with a set-screw, I, for clamping the tools, to hold them in place; and a clamp, K, is arranged on the upper end of the carriage, for clamping the ends of the tools down on the face of the carrier when grinding, or it may be used as a guide only.

The lower edge of the plate A may be raised or lowered to any required pitch for tools of different bevels at the cutting-edges, and a notched lock, L, or set-screw, may be used for holding it.

This device may be used also with great advantage for scraping and truing the faces of the stones.

Having thus described my invention,

I claim as new, and desire to secure by Letters Patent—

1. The combination, with the slotted oscillating plate A, provided with journals, and either mounted in adjustable or permanent bearings C, of the carriage E, and the adjustable tool-holder G, substantially as specified.

2. The arrangement, with the carriage E, of the tool-holder G, and clamp or guide K, substantially as specified.

PHILIP LEONARD.

Witnesses:

JAMES W. SCOTT,  
JOSEPH HAGGS.