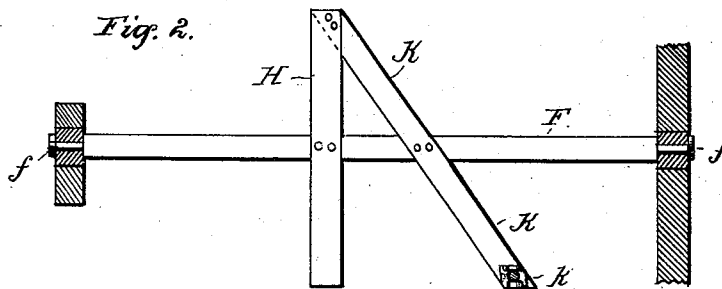
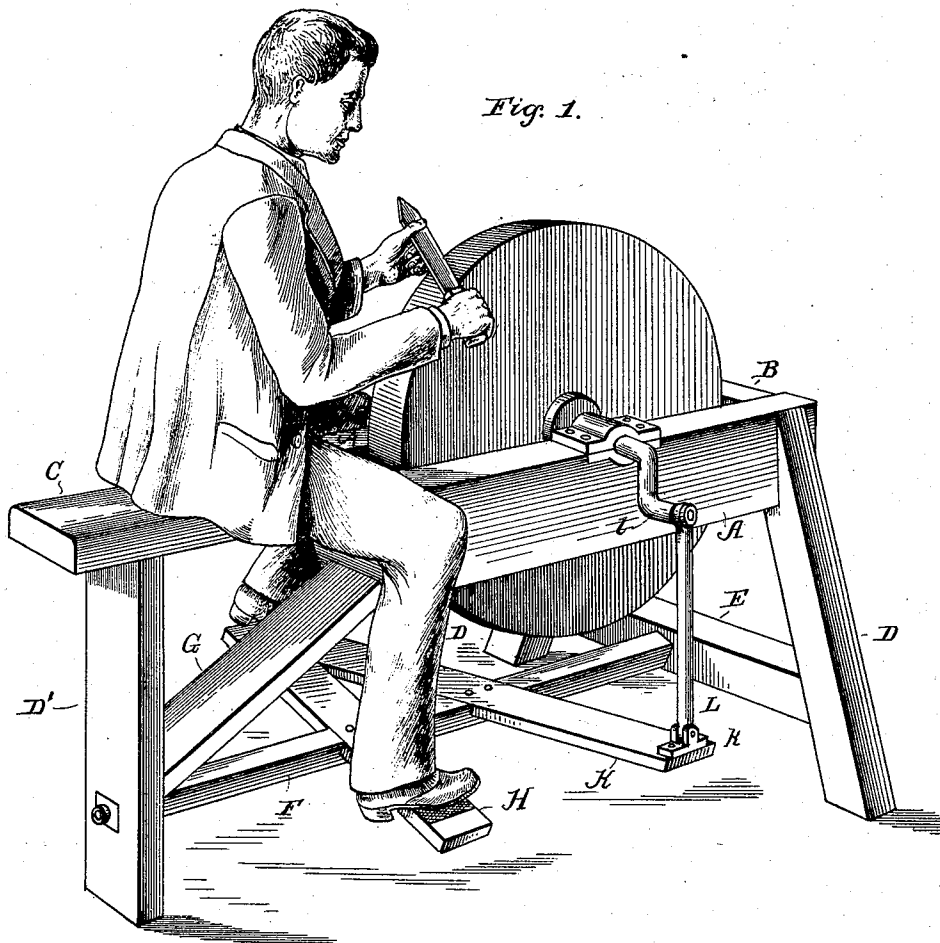


(No Model.)

G. COCHINS.
MECHANICAL MOTOR.

No. 478,088.

Patented July 5, 1892.



WITNESSES.
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UNITED STATES PATENT OFFICE.

GEORGE COCHINS, OF HOUSTON, TEXAS.

MECHANICAL MOTOR.

SPECIFICATION forming part of Letters Patent No. 478,088, dated July 5, 1892.

Application filed March 28, 1892. Serial No. 426,708. (No model.)

To all whom it may concern:

Be it known that I, GEORGE COCHINS, a citizen of the United States, residing at Houston, in the county of Harris and State of Texas, have invented certain new and useful Improvements in Mechanical Motors; 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 appertains to make and use the same.

My invention relates to mechanical motors, and more particularly to foot-powers or treadles.

The object of my invention is to produce a simple, convenient, and efficient foot-power having a single pedal accessible from each side of the motor or a double pedal accessible at the end to an operator facing the machine.

It is also my object to provide a frame especially adapted for mounting my mechanical motor.

In the accompanying drawings, forming a part of this specification, my invention is shown as applied to grindstones, in which—

Figure 1 is a perspective view of a frame specially adapted for mounting my motor, and Fig. 2 is a plan view in detail of the rock-shaft and pedal.

Referring more particularly to the drawings, A A denote two horizontal supports, upon which are mounted in suitable bearings a grindstone. B denotes a short end brace mortised in with said supports. C denotes a saddle made of a single piece of wood and mortised into said supports.

D D D' denote three uprights or legs, which support the frame, the uprights D D having a cross-brace E secured at a suitable distance above the lower ends.

F is a rock-shaft having journals *f f*, as shown in Fig. 2, one of which is mounted in a bearing formed about midway of the brace E, the other journal being mounted in a bearing formed in the upright D'.

G is a diagonal brace secured to the upright D' and extends up between the ends of the horizontal pieces A A to the inner end of the saddle C, the four pieces being secured together in any suitable manner.

H denotes a pedal mounted on the rock-shaft at a point slightly forward of a vertical line tangential to the face or grinding-surface of the stone. Said pedal is formed of a single

piece of wood or other material and is mortised or otherwise secured about midway of its length to the rock-shaft, its ends projecting on each side of the frame and forming foot-rests.

K denotes a connecting-piece running diagonally across the rock-shaft, and to which it is secured about midway of its length. Said connecting-piece is also secured at one end to the end of the pedal, as shown in Fig. 2, its other end carrying a yoke or staple *k*, to which is secured a pitman L, said pitman being secured to crank *l* of the grindstone-shaft.

It is evident from the position of the pedal the operator is enabled to straddle the saddle facing the wheel and use both feet; but if the operator prefer standing to one side of the frame he can do so either from the right or left hand side and work the treadles with one foot. For this purpose, and also that the operator may face the machine, the frame is narrowed at the forward end, being only the width of the saddle, and the upright D' is placed so as to form no obstruction to the operator, who is between it and the stone, the result being that the operator standing at one side can conveniently face the grindstone while working the pedal. It is also evident by having the connecting-piece K running diagonal to the rock-shaft it removes the pitman from all possible interference with the operator and by having said rod extend across said shaft and securing it to the end of the pedal I gain much more power and at the same time form a brace for the connecting-rod.

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

The combination of a horizontal rock-shaft extending lengthwise of the machine, a horizontal connecting-piece running diagonally of and rigidly secured to said shaft, a seat for the operator, a pedal rigidly secured to said rock-shaft, said pedal serving as a single or double pedal and so arranged that the operator shall face the device to be operated, substantially as shown and described.

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

GEORGE COCHINS.

Witnesses:

G. W. THARP,
F. F. CHEW, Jr.