No. 844,109. PATENTED FEB. 12, 1907.

J. P. FAMOUS.

WIRE POINTING MACHINE.

APPLICATION FILED MAY 4, 1906.

Fig. 1.

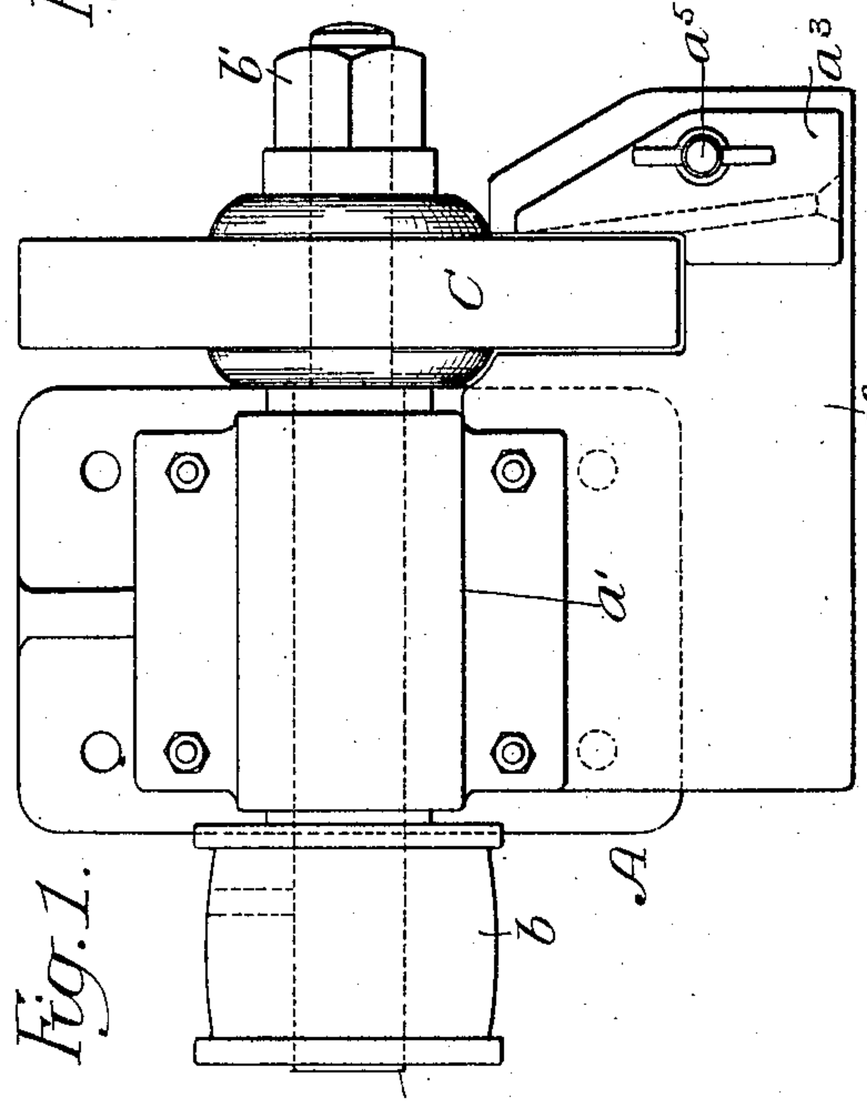


Fig. 2.

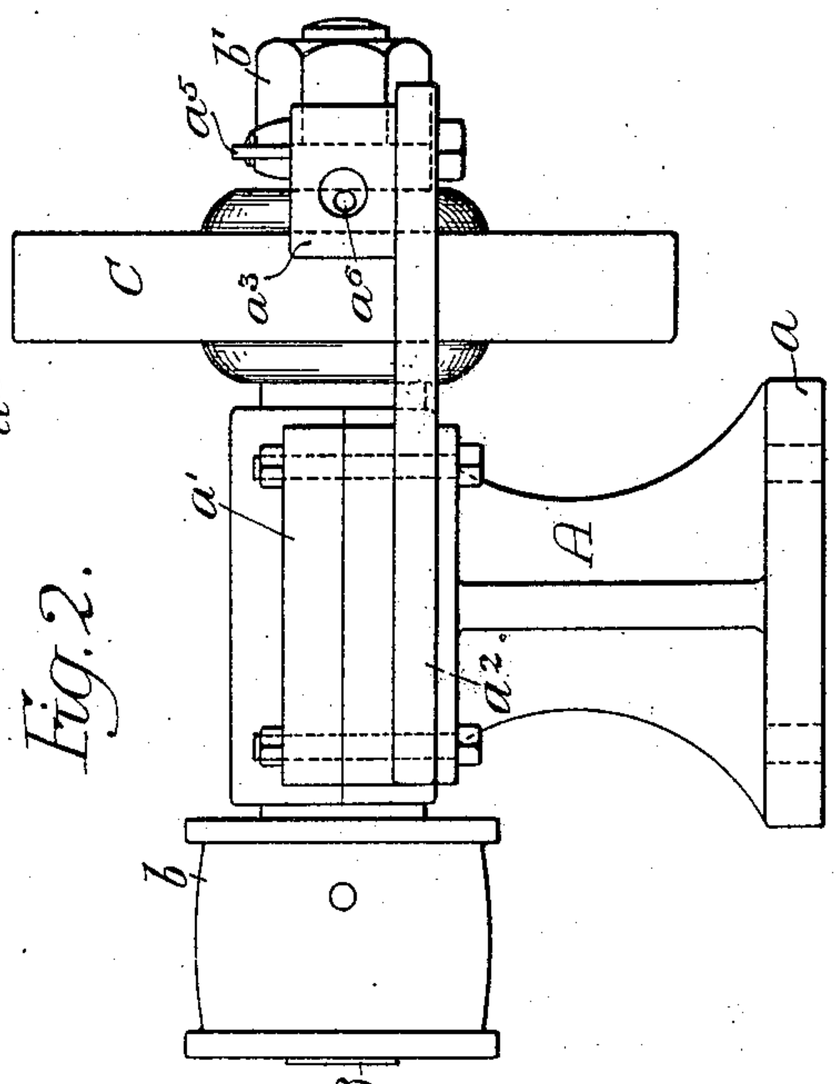


Fig. 3.

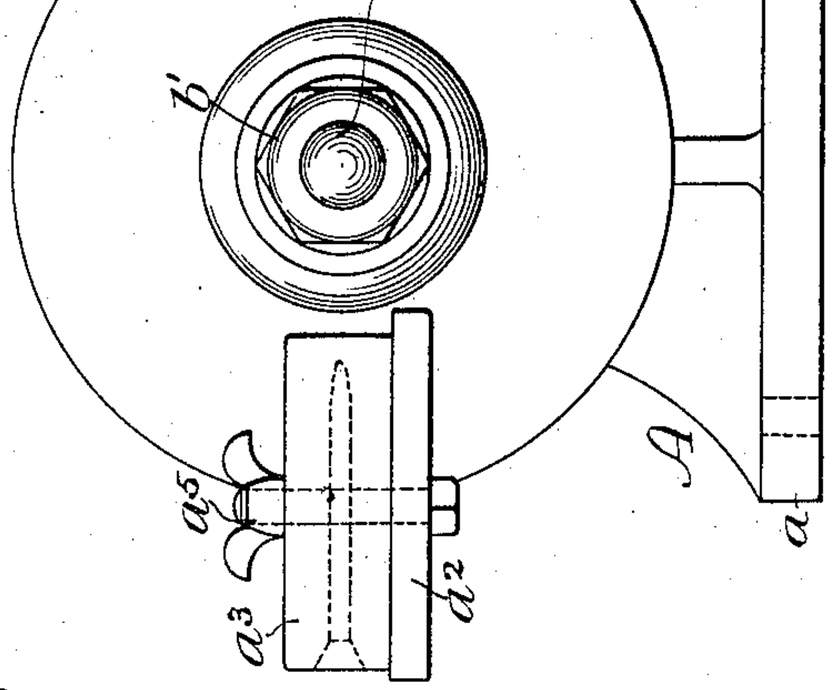


Fig. 4.

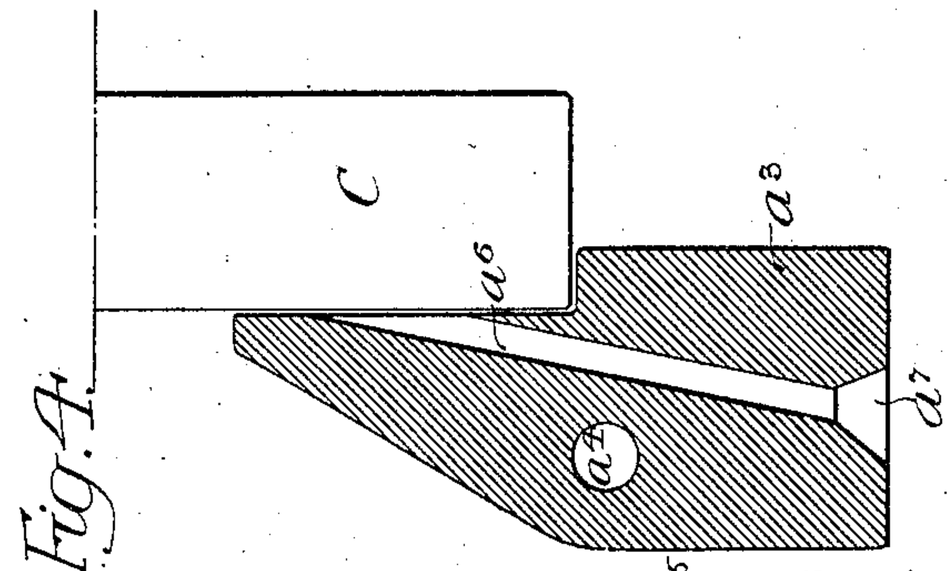
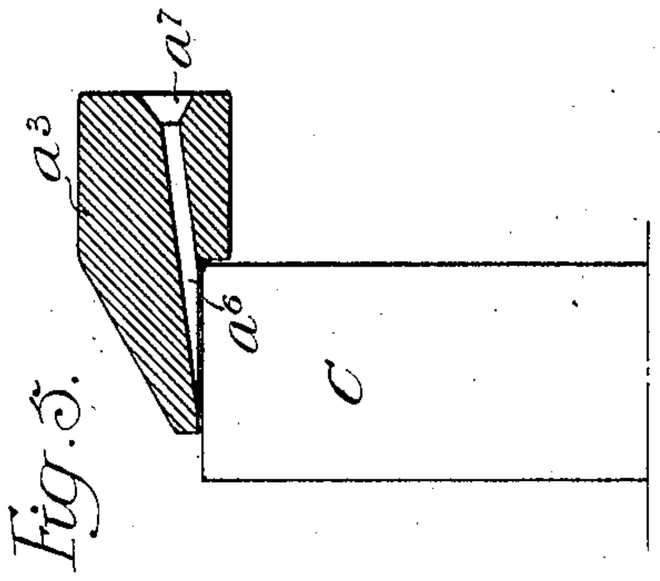


Fig. 5.



Witnesses:-
Wills A. Burrowes
Titus H. Jones

Inventor:-
James P. Famous.
by his Attorneys,
Howson & Howson

UNITED STATES PATENT OFFICE.

JAMES P. FAMOUS, OF NORRISTOWN, PENNSYLVANIA.

WIRE-POINTING MACHINE.

No. 844,109. Specification of Letters Patent. Patented Feb. 12, 1907.

Application filed May 4, 1906. Serial No. 315,178.

To all whom it may concern:

Be it known that I, JAMES P. FAMOUS, a citizen of the United States, residing in Norristown, Pennsylvania, have invented certain Improvements in Wire-Pointing Machines, of which the following is a specification.

One object of my invention is to provide means for easily and quickly pointing a rod or wire as required in order to permit of its introduction into a die or dies during the process of wire-drawing.

It is further desired to provide a device of the above-noted character which shall support the end of the wire during the pointing or sharpening operation, so as to prevent its bending.

Another object of the invention is to provide a wire pointing or sharpening device which shall be of relatively simple and inexpensive construction both as regards its first cost as well as its maintenance.

These objects I attain as hereinafter set forth, reference being had to the accompanying drawings, in which—

Figure 1 is a plan of my improved wire-pointing machine. Fig. 2 is a side elevation of the machine shown in Fig. 1. Fig. 3 is an end elevation. Fig. 4 is an enlarged horizontal section illustrating the detail construction of the wire-guide, and Fig. 5 is a special form of my invention.

In the above drawings, A is a standard having a supporting-base a and provided with a single bearing a' for a shaft B, which projects outside of said bearing. On one end of the shaft is fixed a pulley b, which may be driven from any desired source of power, while on the opposite end of said shaft is carried an emery-wheel or grindstone, removably held in position by means of a nut b' on the end of the shaft B. Projecting horizontally from the standard a is a table or rest a^2, to which is removably clamped or bolted a wire-guide a^3, which consists of an elongated block having a vertical hole a^4 for the reception of a clamping-bolt a^5, whereby it is held to the table or rest a^2. A portion of the end and side of the block is offset or recessed, so as to fit against the side and across a portion of the face of the wheel C, and there is a channel a^6 for the reception of the wire to be pointed extending at an acute angle from the face of the block adjacent to the side of the wheel C to one end of said block, where it is provided with a conical enlargement a^7.

Under operating conditions the wire or rod to be pointed is inserted through the opening a^7 into the passage a^6, so that its end is brought into contact with the side of the wheel C at an acute angle to the same. This is turned at a high speed, and said wire is then revolved or turned axially, so as to bring all portions of its end successively in contact with the side of the wheel, whereby it is quickly pointed or sharpened, so as to be easily introduced into a die.

As is well known to those skilled in the art, it has hitherto been customary to sharpen the end of a wire preparatory to drawing it through a die for the purpose of reducing its diameter by hammering or filing, operations which necessarily consumed considerable time. By means of my device, however, the same work can be more satisfactorily performed in a materially shorter time.

It will be noted that by extending the block a^3 up to the grinding-face of the wheel C the wire operated on is supported at its end and quickly and satisfactorily pointed without delay due to its bending or jamming. If desired, the guide-piece a^3 may be so supported as to direct the wire operated on into engagement with the cylindrical face of the wheel, as shown in Fig. 5, in any case, however, supporting the wire at an acute angle to the abrading-surface of the wheel and being engaged by said wire, so as to prevent bending thereof at the end.

I claim—

1. The combination with an abrading-wheel, of a guide-piece for a wire to be sharpened, said guide-piece having a portion provided with a substantially cylindrical, elongated channel arranged to support the end of a wire at an acute angle to the abrading-surface of the wheel and in close proximity thereto, substantially as described.

2. The combination with an abrading-wheel, of a guide-piece having a surface in close proximity to and parallel with an abrading-surface of the wheel, there being a substantially cylindrical, elongated channel extending through said guide-piece and intersecting said surface at an acute angle thereto, substantially as described.

3. The combination with a standard, of a shaft carried therein, means for driving the shaft, an abrading-wheel on the shaft, a

table supported by the standard, and a wire-guide clamped to said table, said wire-guide having through it a substantially cylindrical, elongated channel whose line is inclined at an acute angle to the abrading-surface, and being constructed to support the end of a wire in said channel while it is in engagement with the wheel, substantially as described.

4. The combination with an abrading-wheel, of a supporting structure having a table, a block having means for clamping it to said table including a bolt extending through it, said block being elongated and having a portion of one of its sides offset and extending in close proximity to the side of the wheel, there being a substantially cylindrical channel for the reception of the wire, extending through said block in a line intersecting the side of the wheel at an acute angle, and substantially at right angles to the line of the clamping-bolt, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JAMES P. FAMOUS.

Witnesses:
GEO. R. RALSTON,
ALBERT L. RITTENHOUSE.