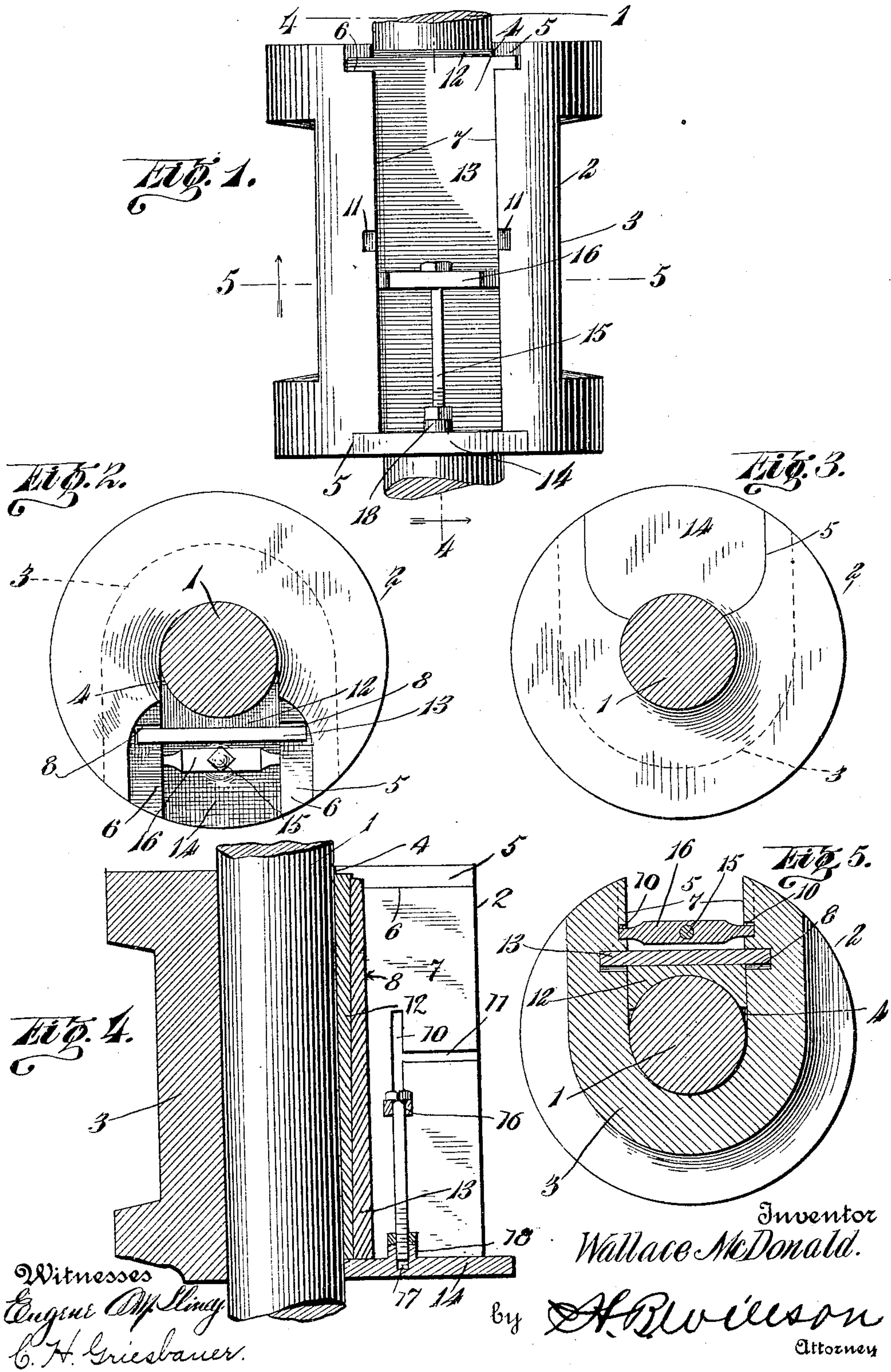


No. 824,572.

PATENTED JUNE 26, 1906.

W. McDONALD.
TAPPET FOR STAMPING MILLS.
APPLICATION FILED APR. 20, 1905.



UNITED STATES PATENT OFFICE.

WALLACE McDONALD, OF GRASS VALLEY, CALIFORNIA.

TAPPET FOR STAMPING-MILLS.

No. 824,572.

Specification of Letters Patent.

Patented June 26, 1906.

Application filed April 20, 1905. Serial No. 256,576.

To all whom it may concern:

Be it known that I, WALLACE McDONALD, a citizen of the United States, residing at Grass Valley, in the county of Nevada and State of California, have invented certain new and useful Improvements in Tappets for Stamping-Mills; and I do 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 improvements in tappets for stamp rods or stems of ore-stamping mills; and it consists in certain novel features of construction, combination, and arrangement of parts hereinafter described and claimed.

The object of my invention is to provide a simple, practical, and effective fastening means for securing a tappet to a stamp rod or stem so that the tappet may be readily removed without interfering with the usual guides for its rod or stem.

The above and other objects, which will appear as the nature of my invention is better understood, are accomplished by the construction illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of a tappet constructed in accordance with my invention. Fig. 2 is a top plan view of the same. Fig. 3 is a bottom plan view. Fig. 4 is a longitudinal sectional view taken on the line 4 4 in Fig. 1, and Fig. 5 is a transverse sectional view taken on the line 5 5 in Fig. 1.

Referring to the drawings by numeral, 1 denotes a portion of one of the stamp rods or stems of an ore-stamping mill, and 2 denotes a tappet of usual form which is secured upon said rod by my improved fastening means.

The substantially cylindrical body portion 3 of the tappet is formed with a centrally-disposed longitudinally-extending channel or opening 4, through which the stamp-rod 1 extends concentrically with the tappet. The body portion 3 of the tappet has at each of its ends and at the ends of the said opening 4 recessed or cut-away portions 5, which form shoulders 6, the purpose of which will be presently explained, and in each of the side walls 7 of the said opening 4 is formed a longitudinal groove 8, which extends from end to end of said wall and opens into the recessed portions 5 of the tappet. In said side walls 7 of the opening 4 are also formed longitudinal

grooves 10, and transverse grooves 11 open at the outer edges of said walls and extend to the central portions of the grooves 10. In order to secure the stamp-rod 1 in the opening 4, a wedge-shaped gib 12 is provided in said opening 4 to engage said rod, and a wedge-shaped key 13 is engaged with the grooves 8, so as to force the gib 12 into contact with the stamp-rod 1.

The key 13 is preferably inserted in the grooves 8 from the lower end of the tappet and is retained therein by a face-plate 14, which is adapted to fit the recessed portion 5 at one of the ends of the tappet. This face-plate is removably secured in the recesses 5 and in engagement with the shoulder 6 by a screw 15, which is passed through a cross-bar 16 and into a screw-threaded socket 17, formed in a boss or lug 18, located upon the inner face of the plate 14. The cross-bar 16, through which the screw or bolt is passed, is removably mounted in or engaged with the said grooves 10. The ends of the cross-bar are of such size as to permit them to be readily inserted in the grooves 10 through the clearance-grooves 11. It will be seen that when the screw or bolt 15 is turned in the proper direction the face-plate 14 will be drawn into the recesses 5 in the tappet and will be securely held therein for the purpose of closing the lower end of the opening 4 and of retaining the wedge-shaped key 13 in position.

By providing the recessed portions 5 and the shoulders 6 at each end of the body of the tappet and by providing the T-shaped grooves at the centers of the walls 7 of the opening 4 it will be seen that the tappet is reversed—that is, either of its ends may be used, since the face-plate 14 may be secured at either of the ends of the tappet.

The construction, operation, and advantages of the invention will be readily understood from the foregoing description, taken in connection with the accompanying drawings.

It will be seen that the device is of simple durable construction, that it will effectively secure a tappet upon the stamp-rod, and that it may be readily removed without interfering with the usual guides of the stamp-rod 1.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

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

In combination with a stamp-rod, a tappet
5 thereon, having a radial opening to receive said rod and extending to one side of the tappet, the latter being further provided in the sides of said opening with longitudinal
10 communicating therewith and having recesses at the ends of said opening, a gib in said opening, bearing against one side of said rod, a wedge in guides with which the sides of the opening are provided, said wedge and gib

being reversely tapered and in contact with 15 each other, a face-plate in the recess at one end of the tappet and bearing against one end of the wedge, a cross-bar having its ends in the grooves in the sides of the opening, and a screw connecting said cross-bar to said 20 face-plate, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WALLACE McDONALD.

Witnesses:

ALONZO McDONALD,
WILLIAM HOOKER.