No. 775,625. PATENTED NOV. 22, 1904.

W. E. INGRAM.

TAPPET FOR STAMP MILLS.

APPLICATION FILED FEB. 23, 1904.

NO MODEL.

Fig. 1.

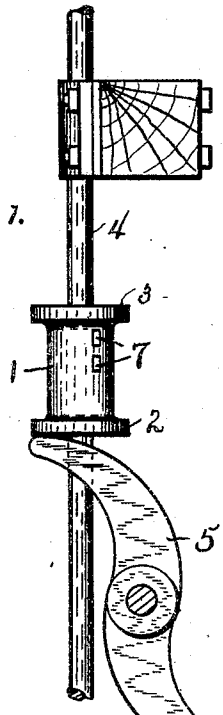


Fig. 3.

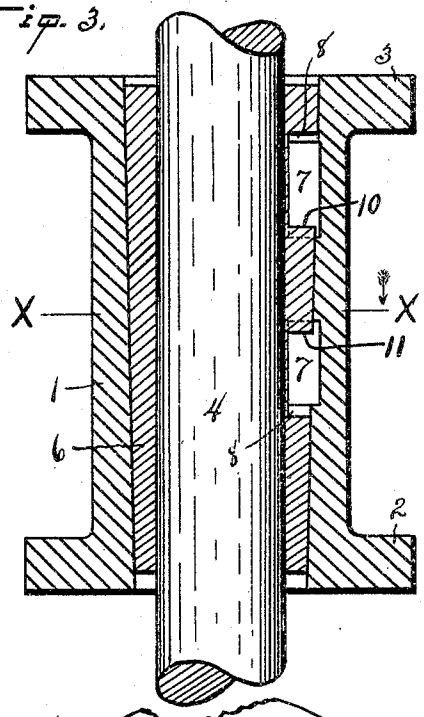


Fig. 2.

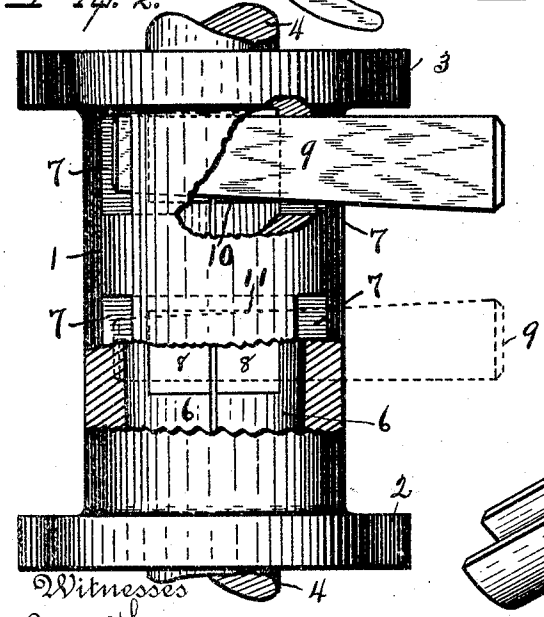
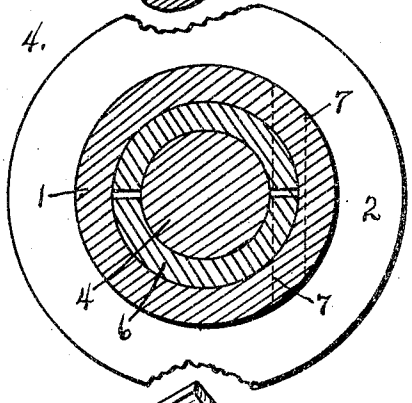


Fig. 4.



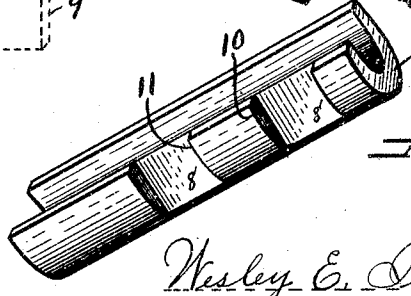


Fig. 5.

Witnesses

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No. 775,625. Patented November 22, 1904.

UNITED STATES PATENT OFFICE.

WESLEY E. INGRAM, OF STOCKTON, CALIFORNIA.

TAPPET FOR STAMP-MILLS.

SPECIFICATION forming part of Letters Patent No. 775,625, dated November 22, 1904.

Application filed February 23, 1904. Serial No. 194,945. (No model.)

To all whom it may concern:

Be it known that I, WESLEY E. INGRAM, a citizen of the United States, residing at Stockton, in the county of San Joaquin and State of California, have invented a new and useful Tappet for Stamp-Mills, of which the following is a specification.

My invention pertains to tappets for stamp-mills and the like; and it consists in the peculiar and advantageous tappet hereinafter described and claimed.

In the accompanying drawings, forming part of this specification, Figure 1 is a side elevation illustrating the tappet constituting the preferred embodiment of my invention as the same appears when mounted on a stem of a stamp-mill or ore-battery in proper relation to a cam for actuating the stem. Fig. 2 is an enlarged view, partly broken away, illustrating in full lines the position in which a tapered device is placed when the tappet is to be fixed on the stem and in dotted lines the position in which said device is placed when the tappet is to be rendered loose on the stem. Fig. 3 is a diametrical section of the tappet, taken at right angles to Fig. 2 and showing the stem in elevation. Fig. 4 is a horizontal section taken in the plane indicated by the line X X of Fig. 3, and Fig. 5 is a perspective view of one of the exteriorly-tapered locking-gibs of the tappet removed.

Similar numerals designate corresponding parts in all of the views of the drawings, referring to which—

5 is a stem-actuating cam of a stamp-mill or ore-battery, and 4 is the stem on which my novel tappet is fixed in position to be engaged by the cam after the manner shown in Fig. 1.

My novel tappet is made up of the following instrumentalities—viz., a sleeve 1, having a downwardly-tapered bore and horizontal passages 7 arranged off its center and intersecting said bore and also having by preference a lower flange 2 and an upper flange 3 and locking-gibs 6 arranged in the bore of the sleeve 1 and between the same and the stem 4, on which the sleeve is to be fixed. The said locking-gibs are of concavo-convex form in cross-section and are exteriorly tapered toward their lower ends in conformity with the taper bore of the sleeve 1. One of the gibs—*i. e.*, the gib opposite the openings 7 of the sleeve—is also provided in its outer side with horizontal recesses 8 of the proportional height illustrated.

My novel tappet is fixed on the stem 4 at the point desired in the following manner, viz: The sleeve 1, with the gibs 6 therein, is properly positioned on the stem 4, after which a tapered device 9, Fig. 2, is forced through the upper passage 7 of the sleeve 1 and in engagement with the lower wall 10 of the upper recess 8 in one gib 6, this to press the said gib downwardly, when by virtue of the taper bore of the sleeve and the correspondingly-tapered gibs the gibs will be forced inwardly against the stem 4. In this way the tappet will be held in position on the stem until the cam 5 strikes the lower end of the sleeve 1, when the tappet will be tightly fixed on the stem. In order to render the tappet loose on the stem, the tapered device 9 is forced through the lower passage 7 of the sleeve 1 and in engagement with the upper wall 11 of the lower recess 8, so as to force the recessed gib upwardly. In virtue of the passages 7 in the sleeve 1 being arranged off the center of the sleeve the tapered device 9 may be readily forced in engagement with the gib 6 to fix the tappet on or render the same loose on the stem.

Notwithstanding the facility with which my novel tappet may be securely fixed on and removed from a stamp-mill stem it will be noticed that the tappet is strong and durable, and therefore well calculated to withstand the shock and strain to which tappets are ordinarily subjected.

I have entered into a detailed description of the construction and relative arrangement of the parts embraced in the present and preferred embodiment of my invention in order to impart a full, clear, and exact understanding of the same. I do not desire, however, to be understood as confining myself to such specific construction and relative arrangement of parts, as such changes or modifications may be made in practice as fairly fall within the scope of my invention as claimed.

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

The herein-described tappet for stamp-mills comprising a sleeve having a downwardly-tapered bore, and also having lower and upper horizontal passages 7 arranged off its center and intersecting the tapered bore, and downwardly-tapered, vertically-movable locking-gibs one of which has upper and lower recesses 8 in its outer side; the lower wall of the upper recess and the upper wall of the lower recess being arranged to be engaged by a tapered device introduced through the horizontal passages in the sleeve.

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

WESLEY E. INGRAM.

Witnesses:
A. H. CARPENTER,
M. HAYNES.