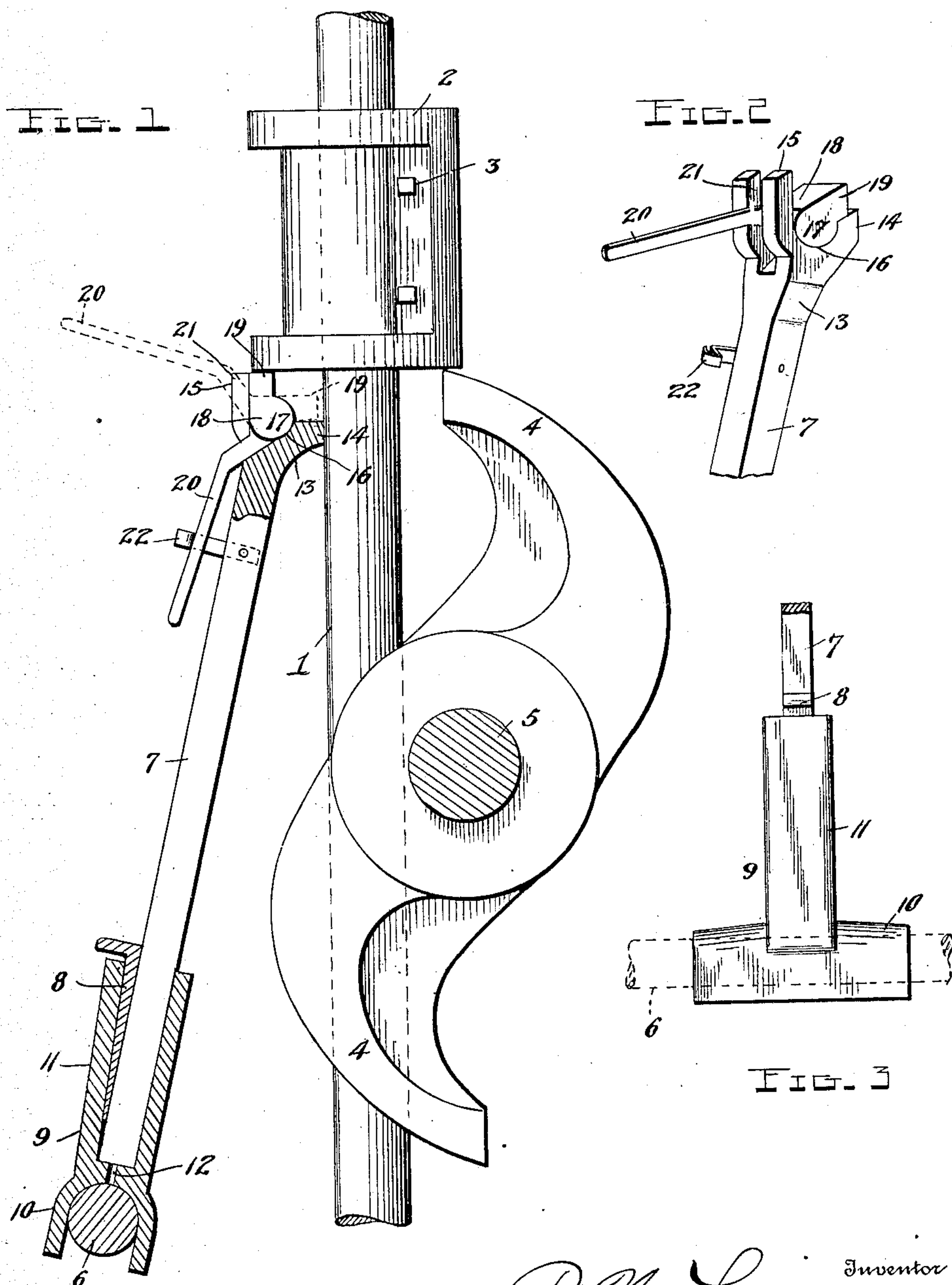


No. 860,307.

PATENTED JULY 16, 1907.

P. N. LEVEQUE.  
STAMP MILL.

APPLICATION FILED FEB. 18, 1907.



Witnesses

*J. A. Guisbauer, Jr.*  
*L. D. Little*

*P. N. Leveque* Inventor  
By *Watson S. Coleman* Attorney



# UNITED STATES PATENT OFFICE.

PIERRE NARCIS LEVEQUE, OF LEAD, SOUTH DAKOTA.

## STAMP-MILL.

No. 860,307.

Specification of Letters Patent.

Patented July 16, 1907.

Application filed February 18, 1907. Serial No. 358,059.

*To all whom it may concern:*

Be it known that I, PIERRE NARCIS LEVEQUE, a citizen of the United States, residing at Lead, in the county of Lawrence and State of South Dakota, have invented certain new and useful Improvements in Stamp-Mills, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to improvements in stamp mills and more particularly to tappet fingers and setters for the same.

The object of the invention is to provide a simple and practical device of this character by means of which the tappet of one of the stems of a stamp mill may be supported in an inoperative position with respect to its actuating cam, and by means of which the tappet may be conveniently adjusted or set upon the stem of its stamp.

With the above and other objects in view the invention consists in the novel construction, combination and arrangement of parts hereinafter described and claimed and illustrated in the accompanying drawings, in which

Figure 1 is a view partly in section and partly in elevation of one of my improved tappet fingers in its operative position; Fig. 2 is a perspective view of the upper end of the tappet finger and setter; and Fig. 3 is a detail elevation of the lower end of the tappet finger.

Referring to the drawings by numeral, 1 denotes the stem of one of the stamps of a stamp mill, 2 the tappet secured upon the stem by suitable fastening means 3, 4 the cam upon the cam shaft 5, 6 the jack shaft and 7 my improved tappet finger and setter. The finger 7 is in the form of a bar which has its lower end removably secured by a wedge or key 8 in a socket 9 adapted to receive the jack shaft 6. The socket 9 has a transversely extending U-shaped lower end 10 adapted to fit over the shaft 6, and its upper end 11 is hollowed to receive the lower end of the finger 7 and the key 8. A small hole 12 is formed in the bottom of the portion 11 of the socket to receive a punch or similar tool for loosening any shims that may become fast in the socket, such shims being used to change the length of the finger in case of wear.

The enlarged upper end 13 of the finger 7 is of right angular form and has horizontally and vertically projecting arms 14, 15 between which is formed a semi-cylindrical bearing socket 16. The latter is adapted to receive the cylindrical journal 17 of a bell crank lever 18 which has a short arm or end 19 and a long arm

or end 20. The arm 20 forms a handle and projects through and swings in a vertical slot 21 formed in the vertical arm or projection 15 on the upper end of the finger 7. The short arm 19 of the lever is adapted to swing between the horizontal and vertical arms or projections 14, 15 of the finger for the purpose of raising and lowering the tappet 2 and the stem 1. A spring catch 22 is provided upon the finger 7 and is adapted to engage the handle 20 of the lever when its short arm 19 is elevated, thus locking the lever in such position, as shown in full lines in Fig. 1.

The operation of the invention is as follows: When the lever 18 is in its normal position shown in full lines in Fig. 2, and in dotted lines in Fig. 1, its short arm 19 rests upon the horizontal portion 14 of the upper end of the finger. Should it be desired to stop the operation of the stem 1 without stopping the cam shaft 5, the finger 7 is swung inwardly beneath the tappet 2 at a time when the cam 4 is about to leave the tappet. It will be noted that this can be done since the cam elevates the bottom of the tappet slightly above the top of the end 19 of the lever. When the cam releases the tappet, it drops upon the top of the end 19 of the lever and the stem is thus supported in an elevated position. The handle 20 of the lever is then swung downwardly and engaged with the catch 22 which locks it. When the lever is thus operated, the end 19 swings to a vertical position and elevates the tappet to a position in which it will be out of the path of movement of the cam 4, as clearly shown in full lines in Fig. 1. Should it be desired to set the tappet 2 further up on the stem 1 when the bottom of the stamp is worn away, the stamp is hung up as above described, and the fastening devices loosened and then the lever is placed in the dotted line position shown in Fig. 1 which allows the stem and tappet to drop a short distance which drives the tappet up on the stem. The lever is then swung downward raising the stem and tappet so as not to touch the cam and the fastenings are then re-set.

Having thus described my invention what I claim and desire to secure by Letters Patent is:

1. A device of the character described comprising a bar having its lower end engaged with a fixed pivot in a stamp mill to permit its upper end to be swung into and out of the path of a tappet, said bar having at its upper end a horizontally extending portion to engage the stem of a stamp, a vertically extending stop portion, and a bearing, a bell crank fulcrumed in said bearing and having an arm to swing between the horizontal and vertical portions of the bar and to engage the bottom of a tappet to raise and lower the same.

2. A device of the character described comprising a bar

5 having its lower end engaged with a fixed pivot in a stamp mill to permit its upper end to be swung into and out of the path of a tappet, said bar having at its upper end a horizontally extending portion to engage the stem of a stamp, a vertically extending stop portion, a bearing, a bell crank fulcrumed in said bearing, and having an arm to swing between the horizontal and vertical portions of the bar and to engage the bottom of a tappet to raise and lower the same, and a catch upon said bar, to engage the

other arm of said bell crank to hold its first mentioned arm in a vertical position against the stop portion at the upper end of said bar. 10

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

PIERRE NARCIS LEVEQUE.

Witnesses:

HUBERT BROWN,  
ALFRED GRAVEL.