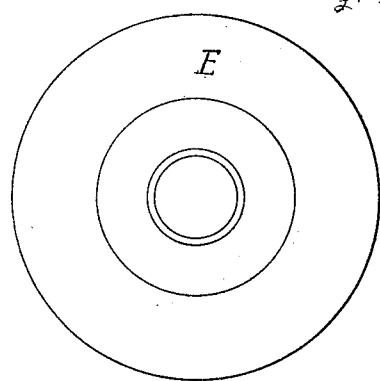
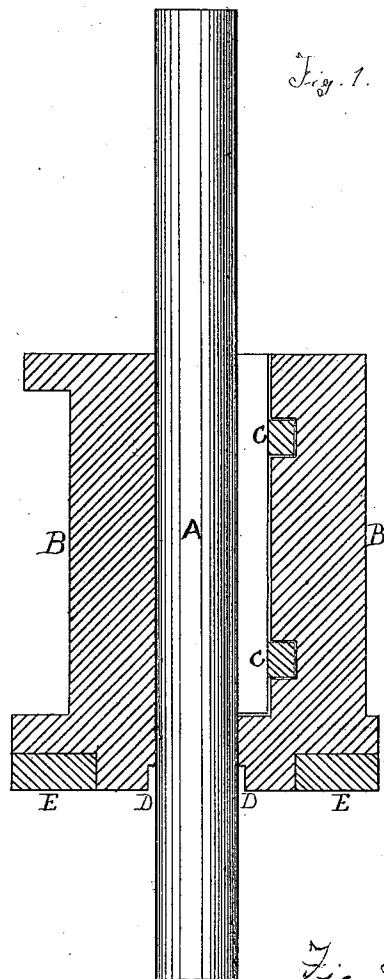


B. McCauley.
Tappet for Quartz Mills.

No. 132,914.

Patented Nov. 12, 1872.



Witnesses
Benj. S. Fabre.
J. L. Borne.

Inventor
Benjamin McCauley
by Dewey & Co.
His Attorneys

UNITED STATES PATENT OFFICE.

BENJAMIN McCAULEY, OF GRASS VALLEY, CALIFORNIA.

IMPROVEMENT IN TAPPETS FOR QUARTZ-MILLS.

Specification forming part of Letters Patent No. 132,914, dated November 12, 1872.

To all whom it may concern:

Be it known that I, BENJAMIN McCAULEY, of Grass Valley, county of Nevada, State of California, have invented a Tappet for Quartz-Mills; and I do hereby declare the following description and accompanying drawing are sufficient to enable any person skilled in the art or science to which it most nearly appertains to make and use my said invention or improvements without further invention or experiment.

The object of my invention is to provide an improved tappet for quartz-mills; and it consists in a peculiar construction of the lower face of the tappet, so that by the employment of a steel or iron band the face and cam are both prevented from wearing into an angular shape and becoming useless.

Referring to the accompanying drawing for a more complete explanation of my invention—

Figure 1 is a side elevation of my tappet. Fig. 2 is a section of the lower portion.

A is the stem, which lifts the stamp in a quartz-battery. To this stem the tappet B is secured, by keys C C, at such a point that the cam on a horizontal rotating shaft will lift it with the stamp as it revolves, allowing it to drop either once or twice, during each revolution of the shaft, according to the form of the cam. The cam moves as close to the stem as

possible, always lifting the tappet by one side. As it is lifted it is partially turned by the friction of the cam, and thus the wear is equally divided. In time this wear in the ordinary construction of tappets will cause the lower face to become beveled, and the cam-face will be worn one-sided, so that it will work badly, and the tendency will be to push the cam and tappet away from each other. In order to remedy this I form the tappet with a recess, D, all around the bottom. A steel or wrought-iron ring, E, is then shrunk upon this recessed part so as to form a wide flat face at the bottom, and against this face the cam works.

By this device I am enabled to entirely overcome the difficulty and produce a tappet which will have no perceptible wear, and the cams will also be preserved with but a slight additional expense.

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

As a new article of manufacture, a quartz-mill tappet having a hard-metal face shrunk upon it, substantially as described.

In witness that the above-described invention is claimed by me I have hereunto set my hand and seal.

BENJAMIN McCAULEY. [L. S.]

Witnesses:

WM. SMITH,
JOHN RYAN.