

(No Model.)

P. H. BAKER.

FASTENING FOR TAPPETS OF STAMP STEMS, &c.

No. 266,338.

Patented Oct. 24, 1882.

Fig. 1.

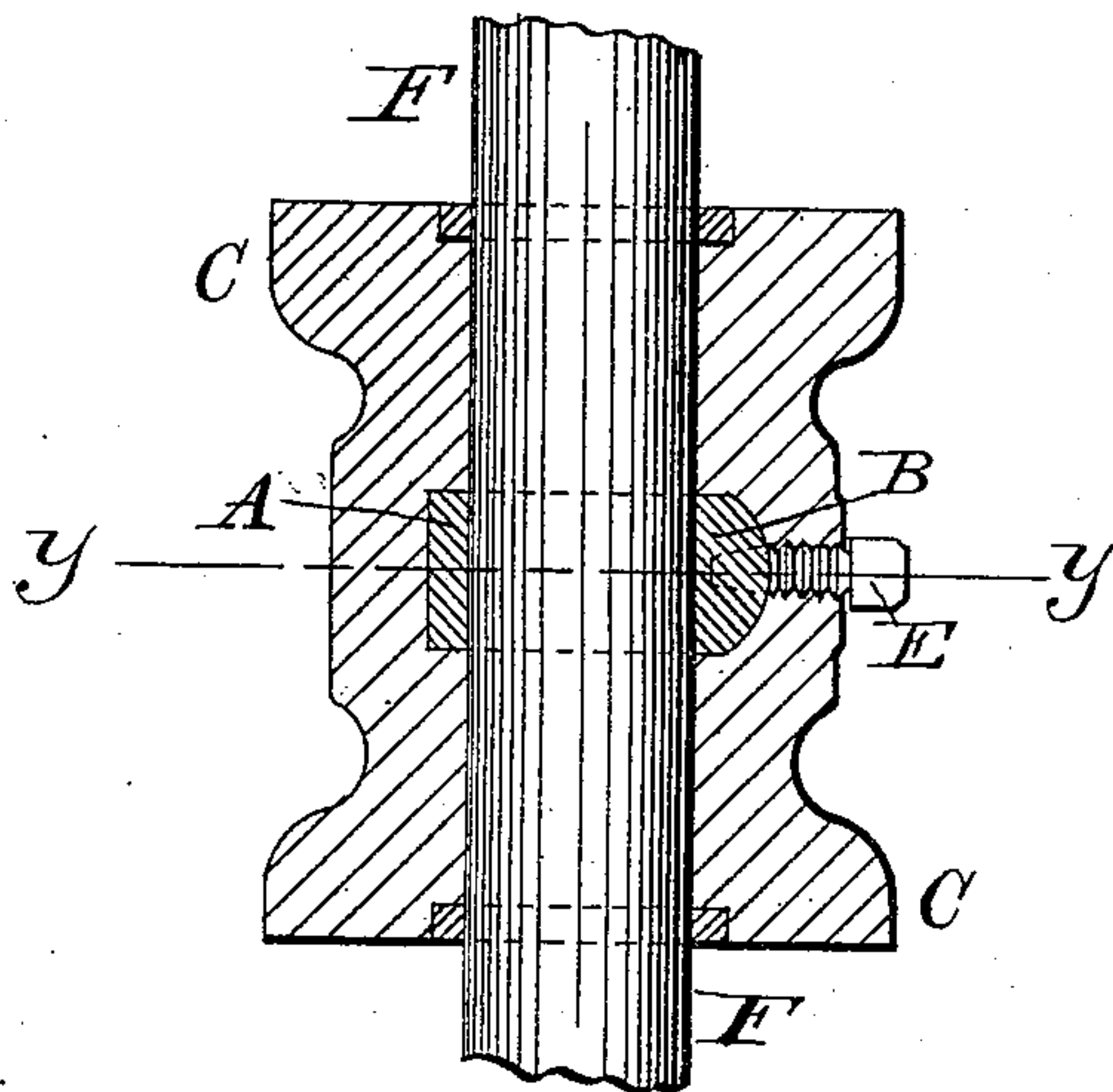
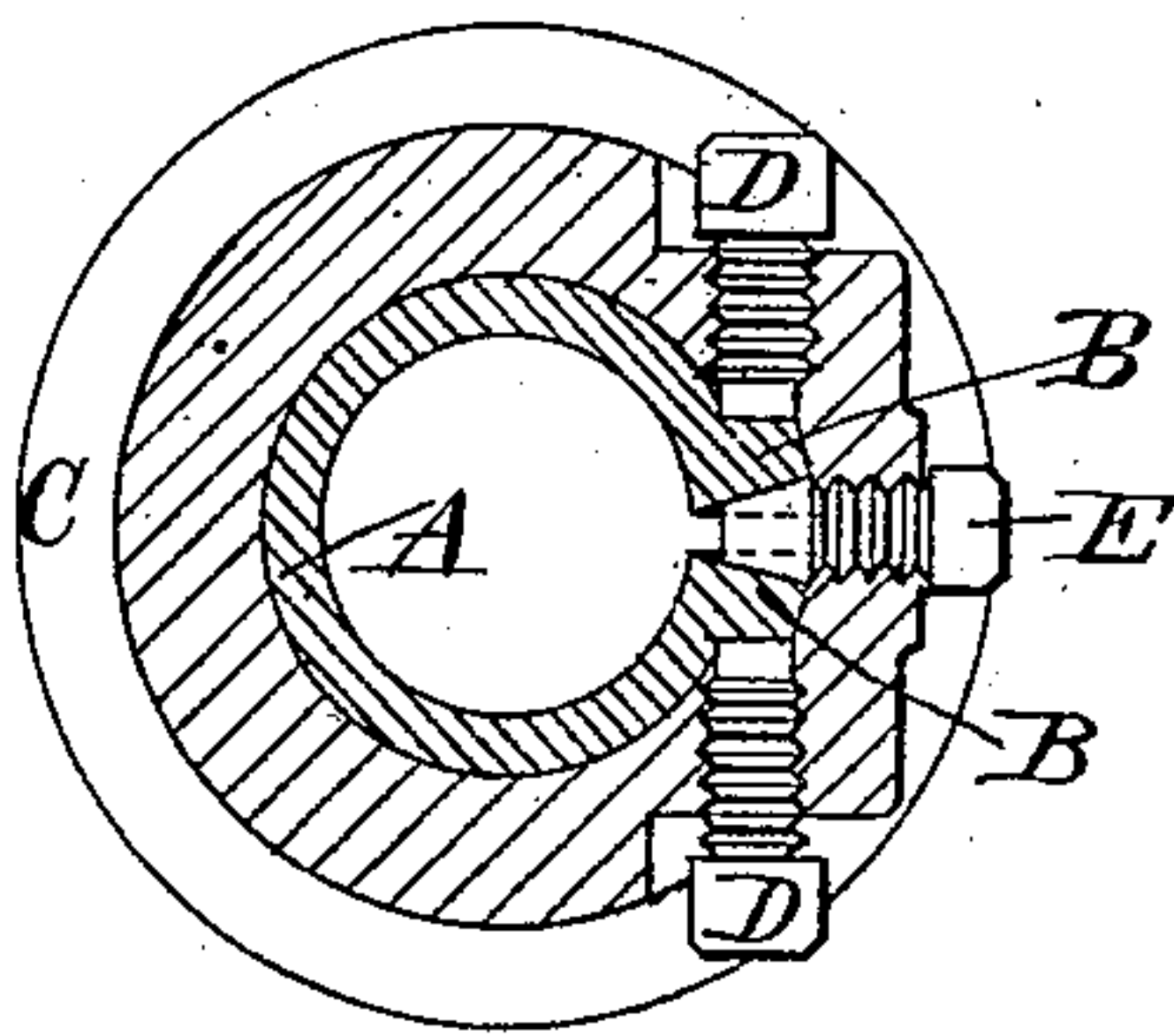


Fig. 2.



Attest:
J. M. Burnham.
H. P. Kallb.
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Inventor:
Peter H. Baker
By his Atty. M. Kallb

UNITED STATES PATENT OFFICE.

PETER H. BAKER, OF SAN FRANCISCO, CALIFORNIA, ASSIGNOR OF ONE-HALF TO GEORGE W. WAITT AND JOSEPH S. BACON, OF SAME PLACE.

FASTENING FOR TAPPETS OF STAMP-STEMS, &c.

SPECIFICATION forming part of Letters Patent No. 266,338, dated October 24, 1882.

Application filed November 25, 1881. (No model.)

To all whom it may concern:

Be it known that I, PETER H. BAKER, of the city and county of San Francisco, in the State of California, have invented a new and useful Improvement in Fastenings for Tappets of Stamp-Stems, &c., of which the following is a specification.

My invention relates to improved means for securing a tappet, pulley, eccentric, coupling-sleeve, or other like piece of mechanism upon a smooth shaft, so that it will be held securely in place without danger of slipping or turning.

It consists in a tappet or other like device having one or more circumferential recesses or grooves around its internal bore, in combination with an open ring or band for each groove, so that when the tappet, pulley, eccentric, coupling-sleeve, or other like piece of mechanism has been slipped upon the smooth shaft the ring or band can be drawn tightly around the shaft and clamped upon it by set-screws, so as to hold the tappet, pulley, eccentric, coupling-sleeve, or other like piece of mechanism securely in place. To effect the closing of the ring or band upon the shaft, I form a lug on each end of the open ring, which projects outward into a suitable recess or chamber formed in the tappet, pulley, eccentric, coupling-sleeve, or other like piece of mechanism, and I then apply set-screws, in the manner hereinafter explained, both for pressing the lugs toward each other for closing the ring or band upon the shaft and for forcing them apart when it is desired to loosen the band on the shaft.

For the purpose of this specification I have represented my invention as applied to a tappet such as is used in stamp-batteries for receiving the stroke of the cam in lifting the stamp. The round shaft to which the tappet is secured is called and known by the name of "stamp-stem," and to make the specification clearly understood I will call it by that name.

Referring to the accompanying drawings, Figure 1 is a vertical section of a tappet, showing a single ring or band in its middle and the opening set-screw, also showing the tappet on the stamp-stem. Fig. 2 is a horizontal section

taken through *y y*, Fig. 1, showing the ring or band, lugs, and set-screws.

In carrying out my invention, I first cast or otherwise provide a steel or other suitable metallic ring or band, A, which is split or open on one side. The end of the ring or band, on each side of the opening, I form into an outwardly-projecting lug, B, as shown. I then place this ring or band around the core at the desired point before it is placed in the mold in which the tappet C is cast, and form the metal around it, thereby forming a recess in the body of the tappet, and leaving the ring or band therein, thus forming a portion of the surface of the inner bore of the tappet. After the tappet is cast I drill a hole into it from each side in line with the lugs B B. These holes I tap with screw-threads and insert a set-screw, D, in each, so that the points of the set-screws will bear against the outside faces of the lugs. Before boring the tappet I turn the set-screws D D in, so as to force the lugs B B toward each other, thereby contracting the ring or band and leaving a slight space in the recess back of the ring, giving room for it to expand when it is desired to loosen it from the stem. The tappet, including the ring or band, is then bored to the desired size of the stem. When the tappet has been placed at the desired point on the stamp-stem I turn the set-screws D D so as to force the lugs B B toward each other, thereby clamping the stem with a gripping hold and securing the tappet in place. The inner faces of the lugs B, I either make beveling outward, or I bore a conical half-seat in each through a hole previously made in the tappet, directly in front of the ring or band opening. Into this hole I insert a conical-pointed set-screw, E, which enters the conical half-seats in the ring-lugs when the screw is set in.

When it is desired to loosen the tappet from the stem for any purpose I turn the set-screws D D back and turn the opening-screw E inward, so that its point forces the lugs B B apart and opens the ring or band sufficiently to loosen it on the stem. The tappet can then be shifted or removed, as desired.

I do not confine myself to the set-screw E

for opening the lugs B B to loosen the ring or band, as it may be done with a wedged-shaped tool inserted between the lugs B B through a slot cast through the side of the tappet directly
5 in front of and into the lug chamber or recess.

More than one ring may be used, if greater gripping-surface is desired.

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

1. The tappet C, having a circumferential groove or recess around its bore and a chamber on one side, and an open band or ring, A, secured in the circumferential recess and provided with lugs B B, extending into the chamber, said tappet being also provided with screw-
15

threaded openings, in combination with shaft or stem F and set-screws D D, arranged to press the lugs toward each other to close the band upon said stem, substantially as specified. 20

2. A metallic ring or band, A, split or open on one side, and provided with lugs B B and a recessed tappet, C, in combination with shaft or stem F and set-screws D D and E, substantially as described. 25

Witness my hand this 14th day of November, A. D. 1881.

P. H. BAKER.

Witnesses:

CHAS. F. JONES,
GEO. W. WAITT.