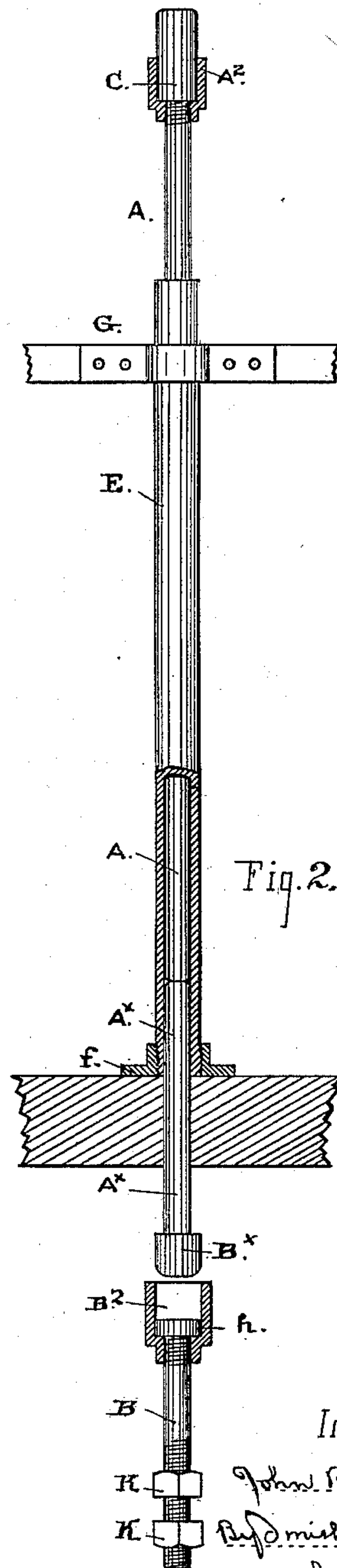
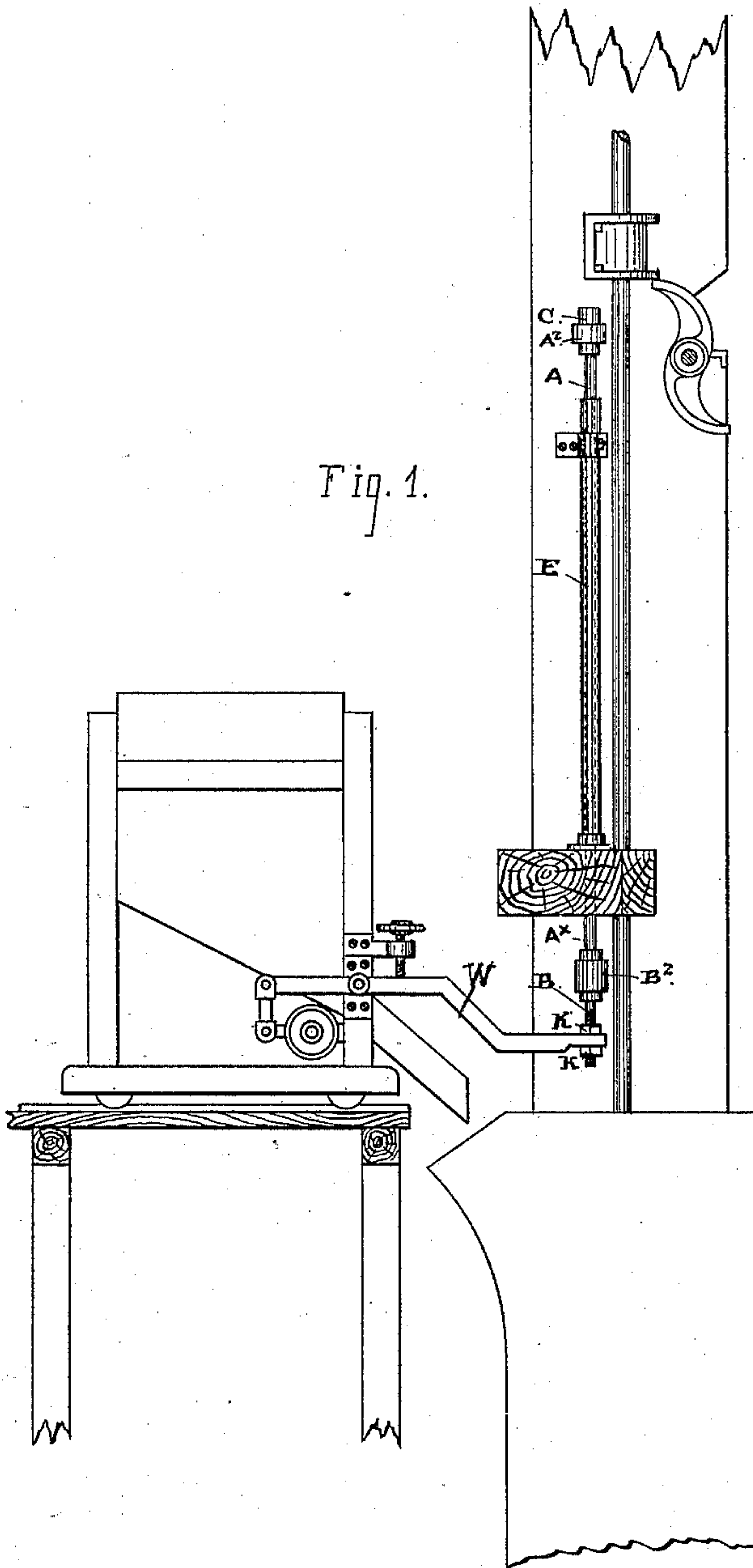


(No Model.)

J. R. BRETT.
FEED ROD FOR ORE STAMP MILLS.

No. 424,264.

Patented Mar. 25, 1890.



Witnesses:

Wm. Mayson
J. E. Ford

Inventor:

John R. Brett
By Richard Osborn
his Atty's.

UNITED STATES PATENT OFFICE.

JOHN R. BRETT, OF OAKLAND, CALIFORNIA.

FEED-ROD FOR ORE STAMP-MILLS.

SPECIFICATION forming part of Letters Patent No. 424,264, dated March 25, 1890.

Application filed July 8, 1889. Serial No. 316,864. (No model.)

To all whom it may concern:

Be it known that I, JOHN R. BRETT, a citizen of the United States, residing in the city of Oakland, in the county of Alameda and State of California, have invented certain new and useful Improvements in Feed-Rods for Stamp-Mills, of which the following is a specification.

My invention relates to improvements in the mechanism by which an ore-feeder is operated by or from the moving stamp-stem in a stamp-battery; and it consists in certain novel construction of feed-rods in sections, all as hereinafter fully set forth and claimed.

The nature of the said improvements and the manner in which I have constructed and applied the same for operation will be fully understood from the following description, in which reference is had by letters to the accompanying drawings.

Figure 1 shows my improved feed-rod set in position and connected with the feeder. Fig. 2 is a view on a larger scale and partly in section.

The feed-rod is composed of three sections A A^x B, connected together in line and to work in upright position beneath the tappet of a stamp-stem, but also separable one section from the other at the joints. The upper end of the first section A has a cup-shaped head A², carrying a cushion or bumper C, of wood or rubber, to receive the blows of the tappet, and the lower end is rounded and sets against the adjacent end of the section A^x next in line.

This joint is surrounded by a long guide-tube E, fixed in close relation to the stamp-stem and held in position by a socket-plate *f* on the frame-timber at the lower end and by a brace G at the upper end. The tubular guide incloses the upper section of the rod for the greater portion of its length, and also extends below the joint where the ends of the two sections set together. The lower end of the second section is provided with an enlarged head B^x, fitting tightly into the cup-shaped head or socket B², which forms the upper end of the lowest section B. A cushion *h*, of wood, is interposed between the head B^x and the bottom of the socket.

The actuating-lever W of the ore-feeder is attached to the lowest section by means of the clamp-nuts K K, the end of the lever being slotted for the rod to pass through and the nuts being screwed up against the lever, one above and the other beneath it. The sections thus united form a continuous rod having suitable stiffness to transmit the blows of the tappet to the feeder-lever, while the joints are of such character that the sections can be readily separated and removed for repairing without taking the mill-frame apart or disturbing the stamp-stem guides.

To remove the uppermost section, which is the one subject to the greatest wear and requiring more attention and repairing than the other parts, it is only necessary to loosen the tube-clamp G and raise the lower end of the tubular guide out of its rest *f* on the timber until it clears the joint between the top and the middle section, and then by turning the tube at an angle to one side or the other the bumper C can be thrown away from the tappet and rod A readily drawn out.

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

1. A feed-rod for ore stamp-batteries, consisting of the sections A A^x B, united, as described, by separable joints and having the head or bumper C on the upper section, the lower end adapted to be connected with the actuating-lever of an ore-feeder, and a guide-tube E, arranged for operation together as set forth.

2. In a feed-rod for stamp-batteries, the rod-sections A A^x, united by a separable joint, and the stationary guide-tube E, fixed to the battery-frame and adapted to form a support and guide for the meeting ends of the two sections, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand and seal.

JOHN R. BRETT. [L. S.]

Witnesses:

D. H. JACKSON,
G. W. RUSSELL.