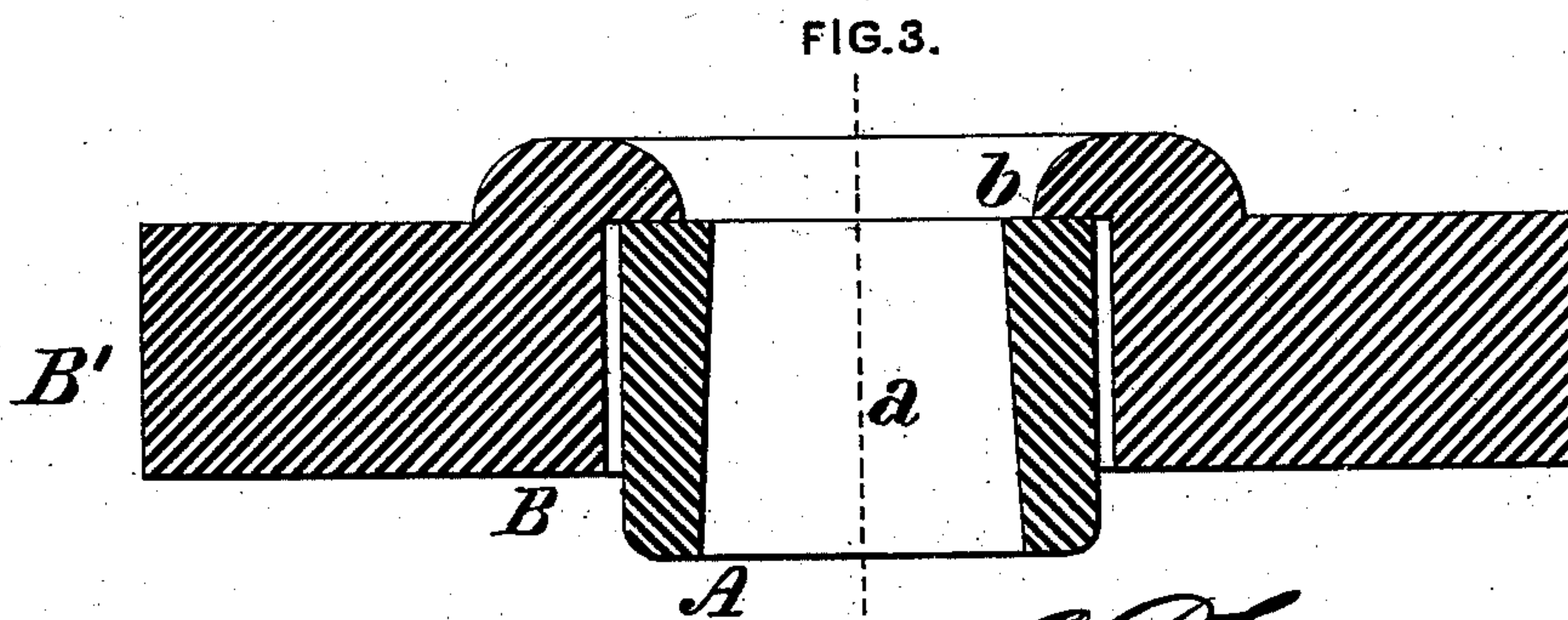
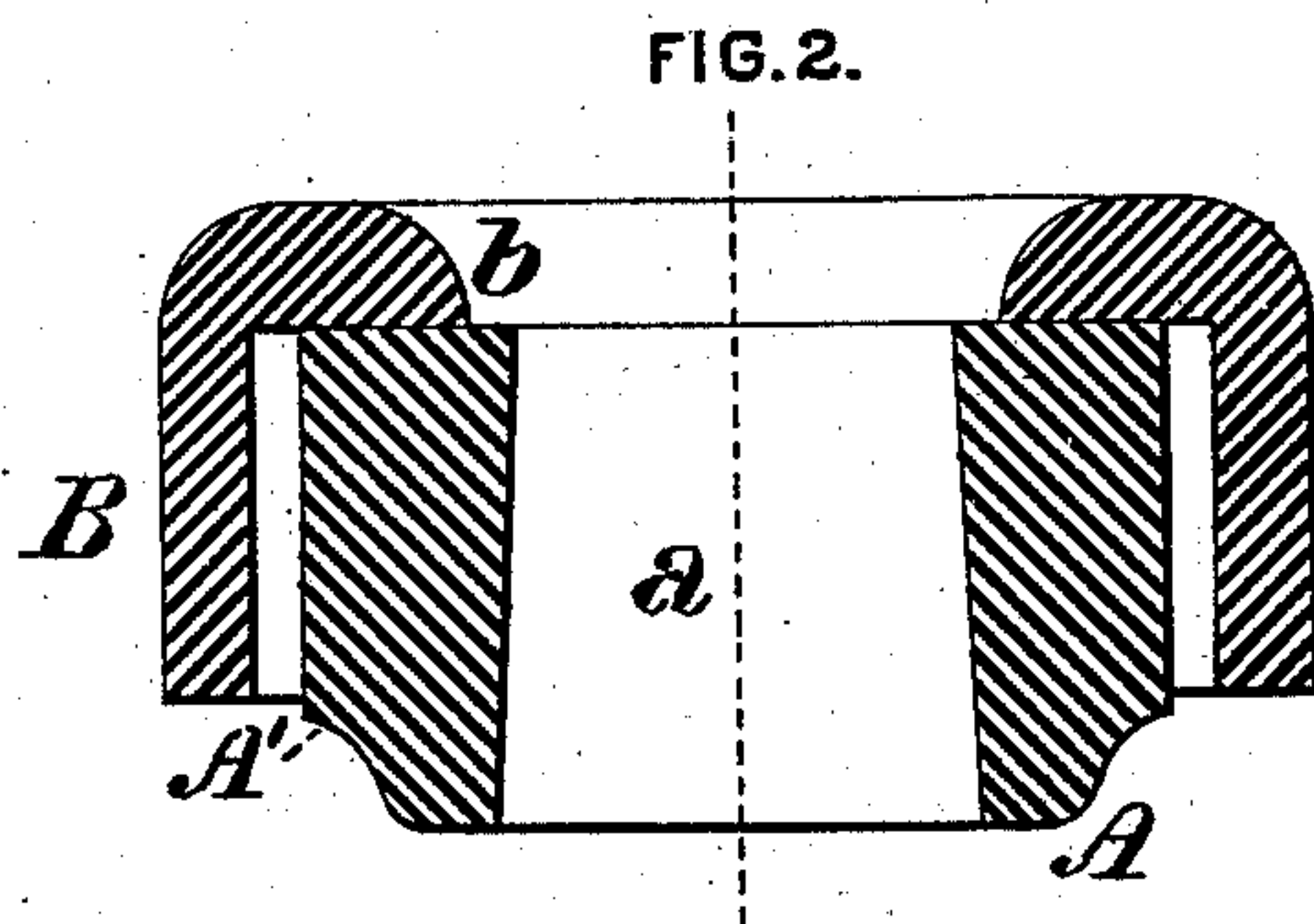
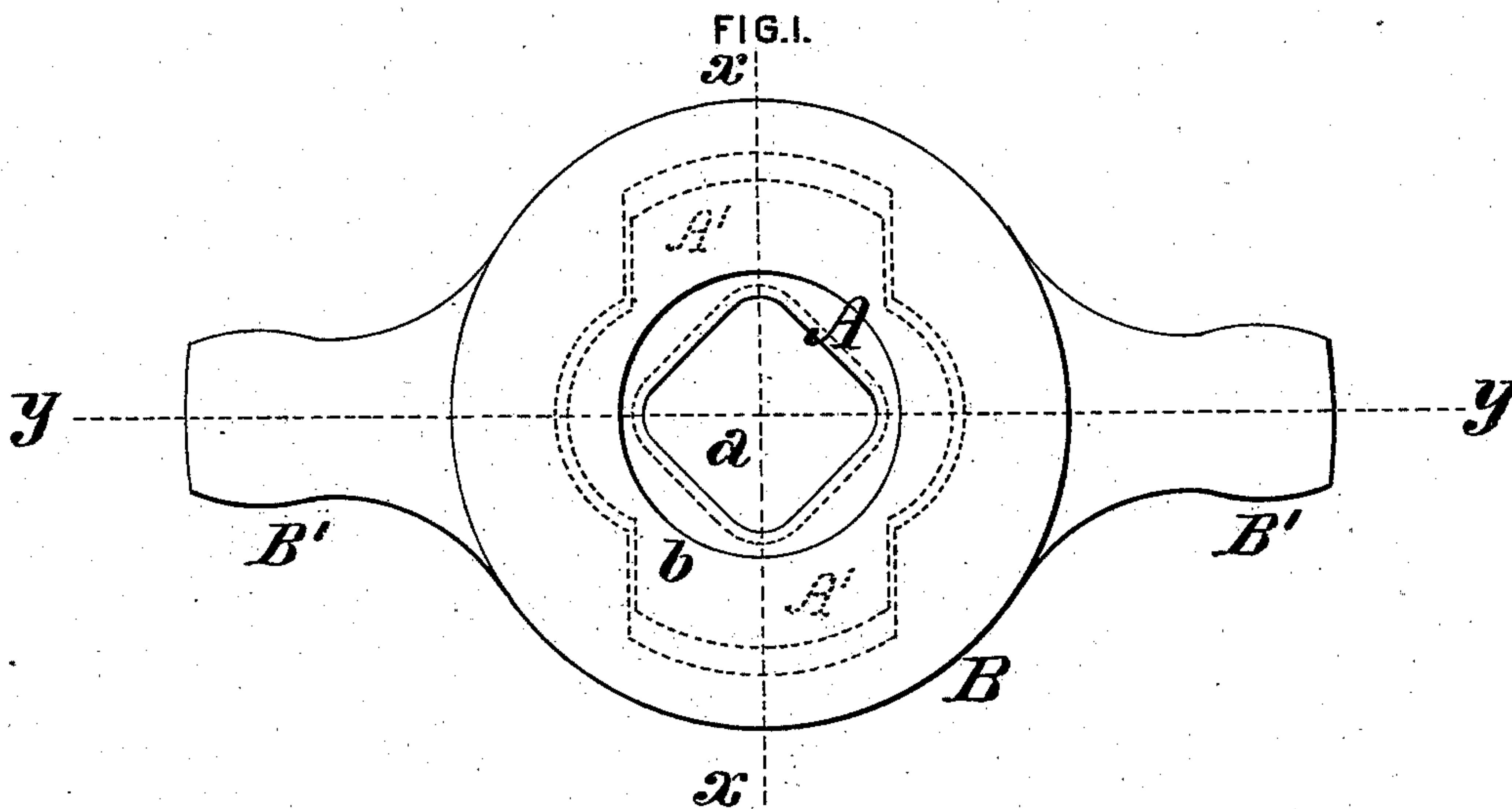


A. B. CROWELL & A. TALBOTT.
Millstone-Driver.

No. 224,884.

Patented Feb. 24, 1880.



WITNESSES:

Geo. A. Vaillant.
J. Walter Douglass.

A. B. Crowell, INVENTORS.

A. Talbott,
by J. Thorden Bell,
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UNITED STATES PATENT OFFICE.

ABNER B. CROWELL AND ALLAN TALBOTT, OF RICHMOND, VIRGINIA.

MILLSTONE-DRIVER.

SPECIFICATION forming part of Letters Patent No. 224,884, dated February 24, 1880.

Application filed April 22, 1879.

To all whom it may concern:

Be it known that we, ABNER B. CROWELL and ALLAN TALBOTT, both of Richmond, in the county of Henrico and State of Virginia, have jointly invented certain new and useful Improvements in Millstone-Drivers, of which improvements the following is a specification.

The object of our invention is to provide a simple, cheap, and efficient means of connecting a millstone with the spindle by which it is rotated, so that a self-adjustment of the stone may be made when put in standing balance and a double driver for rotating the stone be provided; to which ends our improvements consist in the combination of an inner eye or socket, fitting closely around a squared or round portion of the spindle, and having two shoulders or projections diametrically opposite each other on its periphery, and an outer driving-block fitting around and over the inner eye or socket, with the capacity of movement thereon in a horizontal plane and having two driving-arms entering recesses in the runner, said arms being located at right angles to the shoulders of the inner eye or socket, the inner eye being rigidly secured upon the spindle, and the outer block fitting closely within the recesses of the stone.

The improvements claimed are hereinafter fully set forth.

In the accompanying drawings, Figure 1 is a plan or top view of a millstone-driver embodying our improvements, and Figs. 2 and 3 vertical central sections through the same at the lines xx and yy , respectively, of Fig. 1.

To carry out our invention we provide a metallic eye or socket, A, having a central opening, a , which is of square or round section, increasing gradually in diameter from top to bottom, in the form of a truncated square pyramid or frustum of a cone, as the case may be. Two arms or shoulders, A', are formed upon the eye A, projecting therefrom at points diametrically opposite each other upon its periphery. The eye A fits within a recess of similar form in an outer metallic driving-block,

B, having a lip or flange, b , upon its top, encircling and resting on the top of the socket A. Two driving-arms, B', are formed on the driver B, being located thereon opposite each other in line with its center and at right angles to the axis of the recess in the block which receives the eye A. This recess is symmetrical with the eye, but of larger dimensions than the latter in each direction, so as to admit of play or movement in a horizontal plane of the eye and block relatively one to the other.

In operation the eye A is fitted firmly upon the millstone-spindle and the driving-block is fitted closely into a slotted recess or opening in the millstone.

By this arrangement the millstone may be put into standing balance, and will adjust itself and run therein, and a double driver and self-adjustment at four points is provided with the use of only two pieces of metal and at a greatly reduced cost as compared with that of any other driving device within our knowledge.

We claim as our invention and desire to secure by Letters Patent—

A centrally-perforated metallic eye having arms or shoulders projecting therefrom combined with a metallic driving-block having an annular lip or interior flange and a recess symmetrical with but of larger dimensions than the said eye and its arms, to receive and admit of a horizontal play of the same, and provided also with driving-arms at a right angle to the arms or shoulders of the eye, substantially as specified, the said eye and driving-block being constructed for application to each other without any means of attachment, except that obtained by reason of their relative formation, as shown and described.

A. B. CROWELL.
ALLAN TALBOTT.

Witnesses:

JNO. J. BINFORD,
B. H. TURNER.