

J. S. NELSON.
Neck-Yoke Center.

No. 226,670.

Patented April 20, 1880.

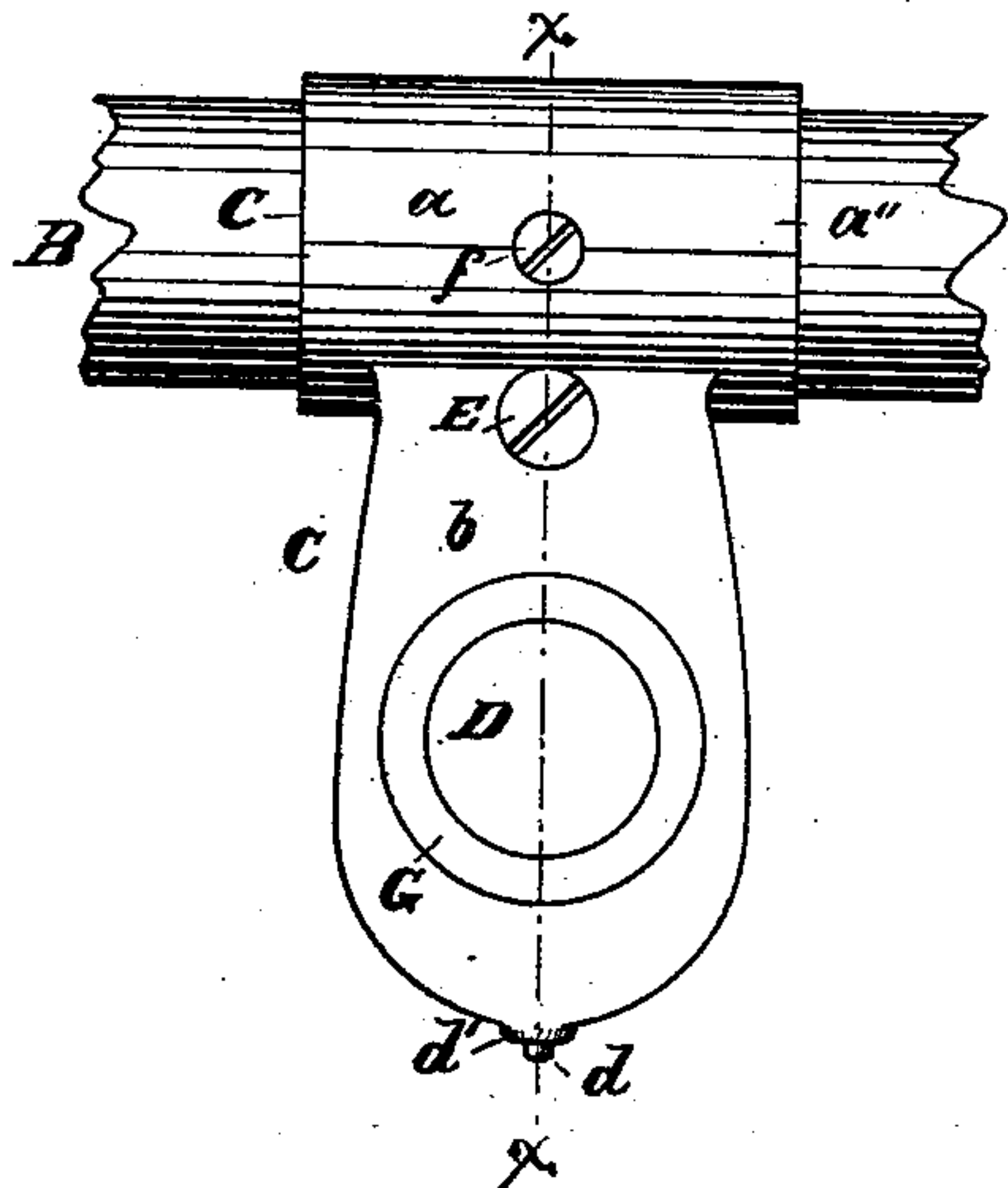


Fig. 1

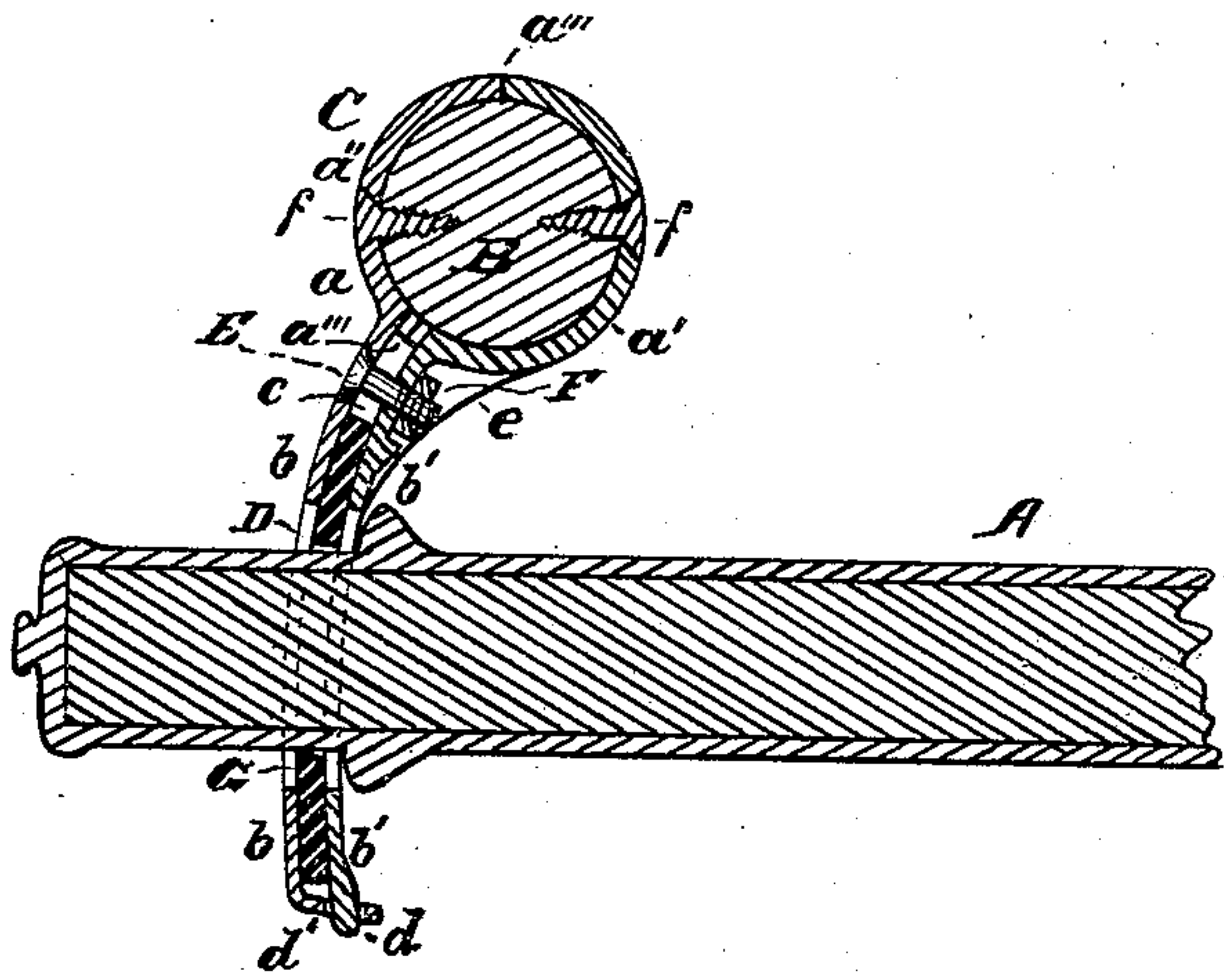


Fig. 2

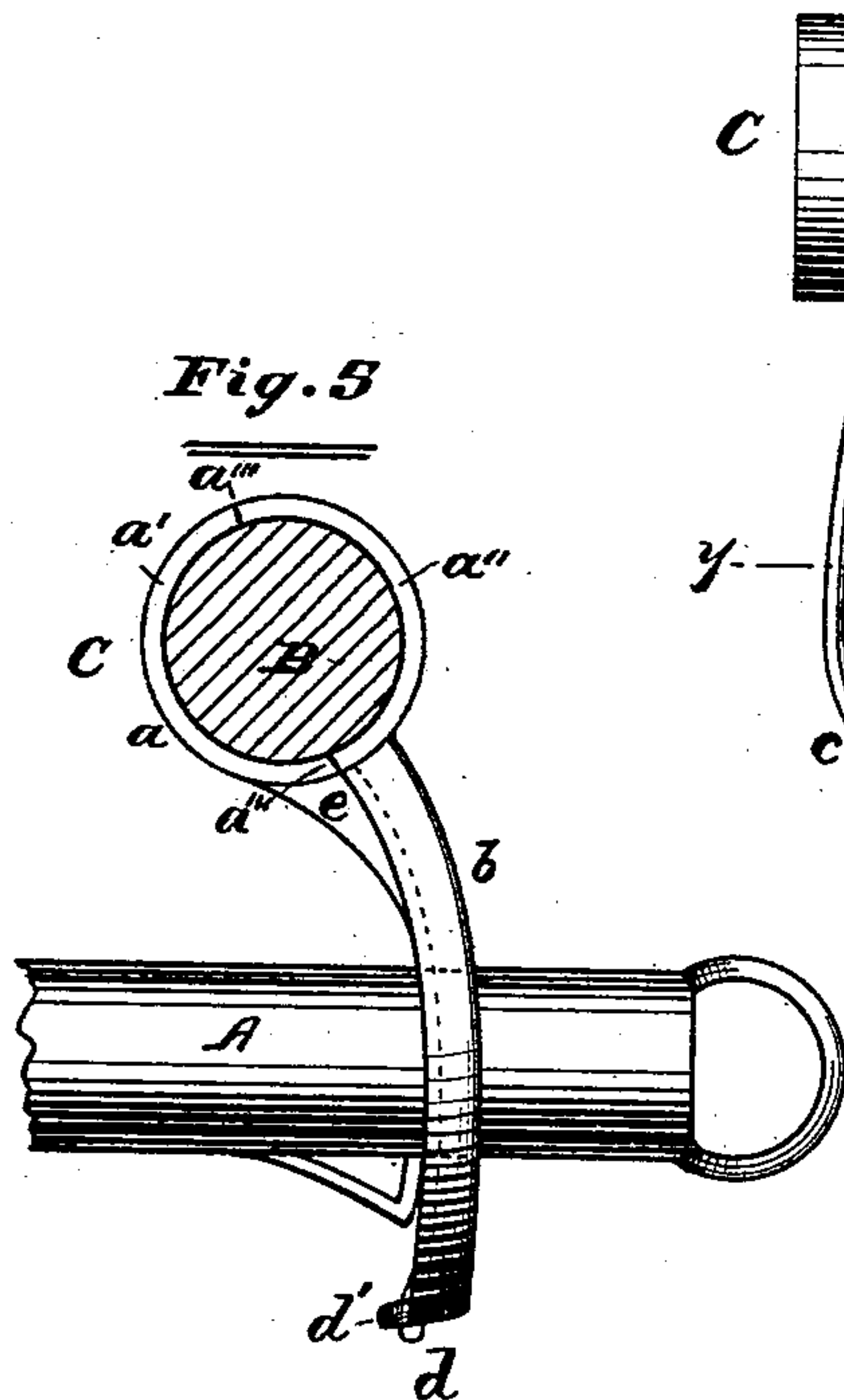


Fig. 3

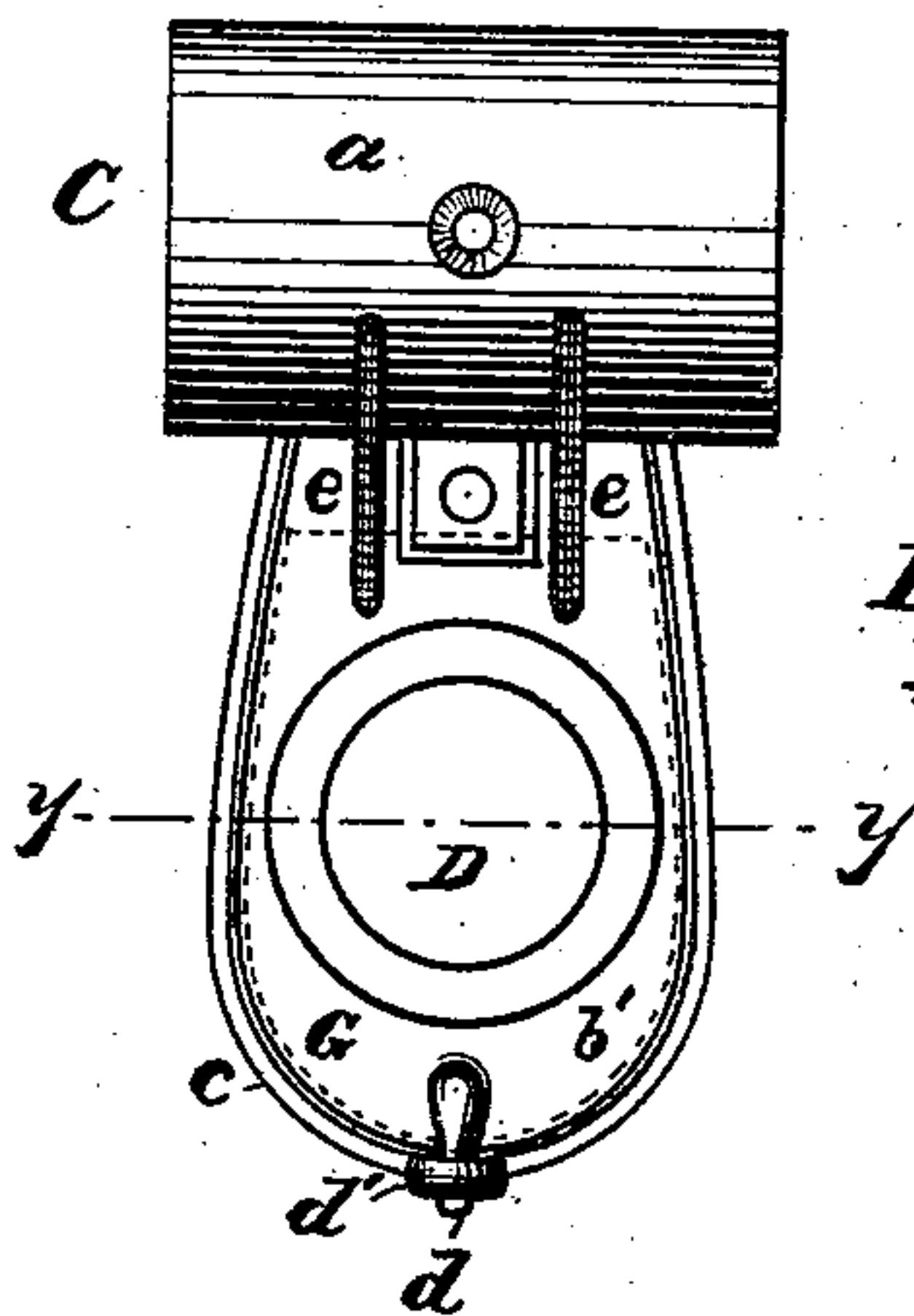


Fig. 4



Fig. 5

Attest:

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UNITED STATES PATENT OFFICE.

JAMES S. NELSON, OF HILLSBOROUGH, ILLINOIS, ASSIGNOR TO WILLIAM H. HAYS AND HENRY M. SMITHDEAL, OF SAME PLACE; SAID SMITHDEAL ASSIGNOR TO JAMES B. DOBYNE, OF SAME PLACE.

NECK-YOKE CENTER.

SPECIFICATION forming part of Letters Patent No. 226,670, dated April 20, 1880.

Application filed August 21, 1879.

To all whom it may concern:

Be it known that I, JAMES S. NELSON, of Hillsborough, in the county of Montgomery and State of Illinois, have invented certain new and useful Improvements in Neck-Yoke Centers, of which the following, in connection with the accompanying drawings, is a specification.

Figure 1 is a front view of a neck-yoke center embodying my invention; Fig. 2, a section in the plane of the line *xx*; Fig. 3, a rear view, and Fig. 4 a section in the plane of the line *yy*; and Fig. 5, an edge view of the center applied to a carriage-pole.

Like letters of reference indicate like parts.

My object is to improve the construction of metallic neck-yokes; and to that end my invention consists of the several novel features hereinafter set forth as new.

A represents a wagon-tongue or carriage-pole, and B the neck-yoke. C is the neck-yoke center. The center C consists of the hollow or tubular part or ferrule, *a*, made in two parts, *a'* *a''*, adapted to clamp the central portion of the yoke B, the meeting edges of the said parts extending longitudinally along the yoke, as indicated at *a'''* *a'''*, Fig. 2. Extending from the lower meeting edges of the parts *a'* *a''*, and forming a part of the center C, are the tongues *b* *b'*, one depending from each of the said edges. The tongues *b* *b'* are parallel to each other, as shown, and are, by preference, bowed or bent forward, as indicated in Fig. 2, so as to hang a little forward from the yoke, and to present a vertical or nearly vertical part to the tongue or pole A. Between the tongues *b* *b'* is the space or recess *c*, and I deem it preferable to make a rearwardly-extending flange, *c'*, along the edge of the forward part or tongue *b*, so as to inclose the space *c*. A small tongue or dowel, *d*, projects from the lower end of the tongue *b'*, and *d'* is an eye arranged on the lower end of the tongue *b* to receive the dowel *d*.

e e are webs to brace or strengthen the pendant parts of the center C, and E is a bolt, and F a nut, the bolt and nut being employed to clamp together the two main parts of the cen-

ter C, the bolt passing through the tongues at a point near the yoke, as indicated; but any suitable clamping device may be employed for the same purpose.

D D are central openings in the tongues *b* and *b'*, and these openings I make considerably greater in diameter than the diameter of that part of the pole or tongue in connection with which the center C is to be used.

G is a disk of leather, rubber, or similar material, clamped between the tongues *b* and *b'*, and having a central opening therein to receive the pole or tongue A, and to serve as a cushion to keep the pole from contact with the tongues *b* *b'*, which, as well as all the other parts of the center C excepting the said cushion, are made of metal.

The dowel *d*, eye *d'*, and webs *e e* are not absolutely essential; but I deem them preferable.

The center C is applied for use substantially as indicated in Fig. 2, and *f f* are screws, which may be employed, if deemed necessary, to connect the center C more rigidly to the yoke B in case the clamping bolt and nut do not render the connection sufficiently rigid.

It will be perceived that the center C consists of two metallic parts, which may be easily cast and clamped to the yoke, and that it is adapted to carry or hold the annular cushion G in such a manner that the latter may be applied and removed with facility. The center C may also be used with a yoke employed either in connection with a carriage-pole or a wagon-tongue.

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

1. The combination of the split ferrule *a*, made in two parts, *a'* and *a''*, the open tongue *b'*, depending from the lower edge of one of the said parts, and having thereon the inclosing-flange *c'* and the eye *d'*, the open tongue *b*, extending from the lower edge of the other part of the said ferrule, and having thereon the dowel *d* and lying within the flange *c'*, the annular cushion G, and a clamp, substantially as and for the purposes specified.

2. The combination of the horizontally-split
ferrule or neck-yoke clamp *a*, made in two
parts, *a'* *a''*, each having an open tongue, *b* *b'*,
depending therefrom, one of the said tongues
5 having thereon the dowel *d* and the other
having therein the eye *d'*, the annular cush-
ion *G*, and a clamp for clamping the said parts

together, substantially as and for the purposes
specified.

JAMES S. NELSON.

Witnesses:

THOS. GERRISH,
GEO. SPENCE.