

No Model.)

N. HIATT.
NECK YOKE.

No. 296,960.

Patented Apr. 15, 1884.
Fig. 1.

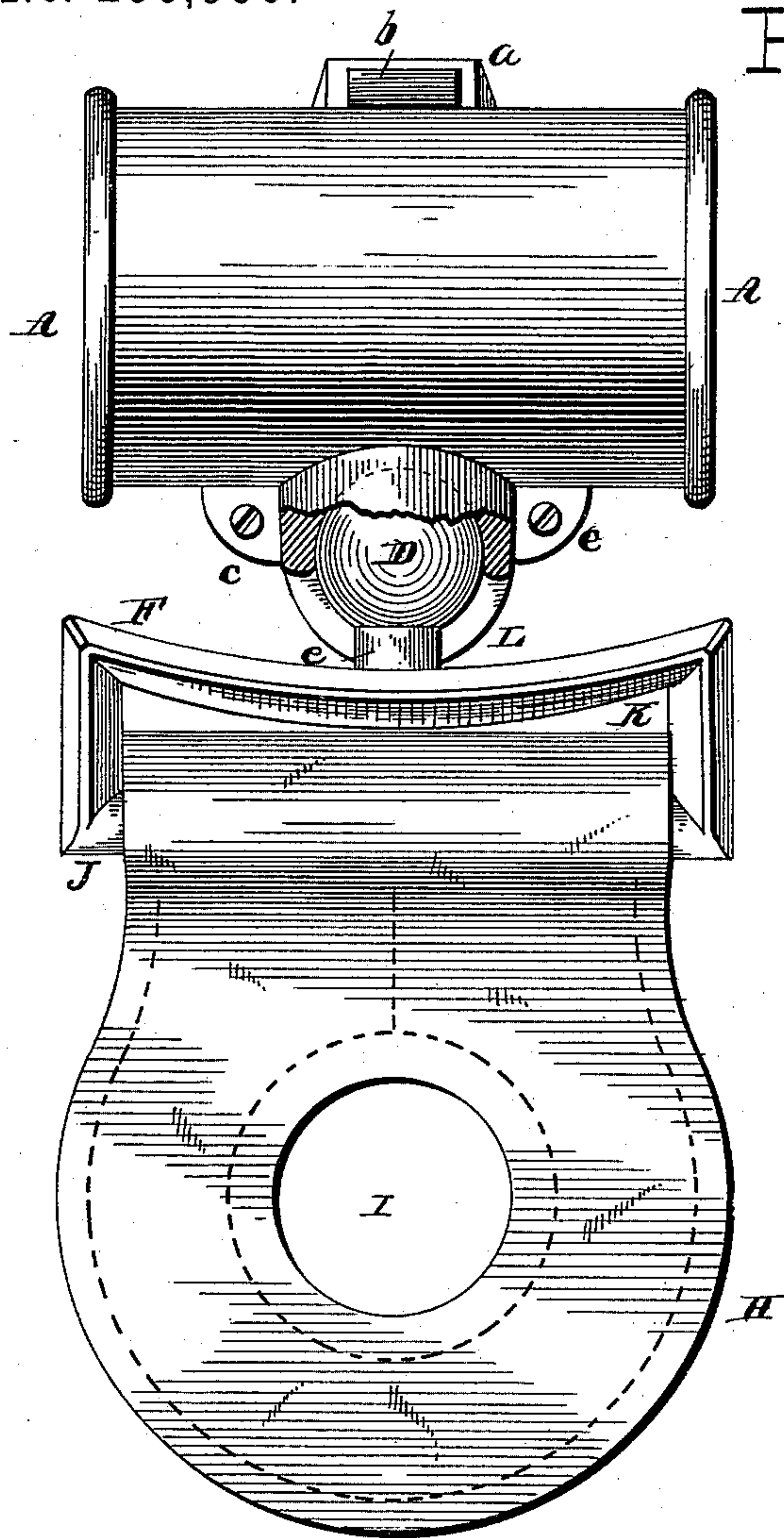


Fig. 2.

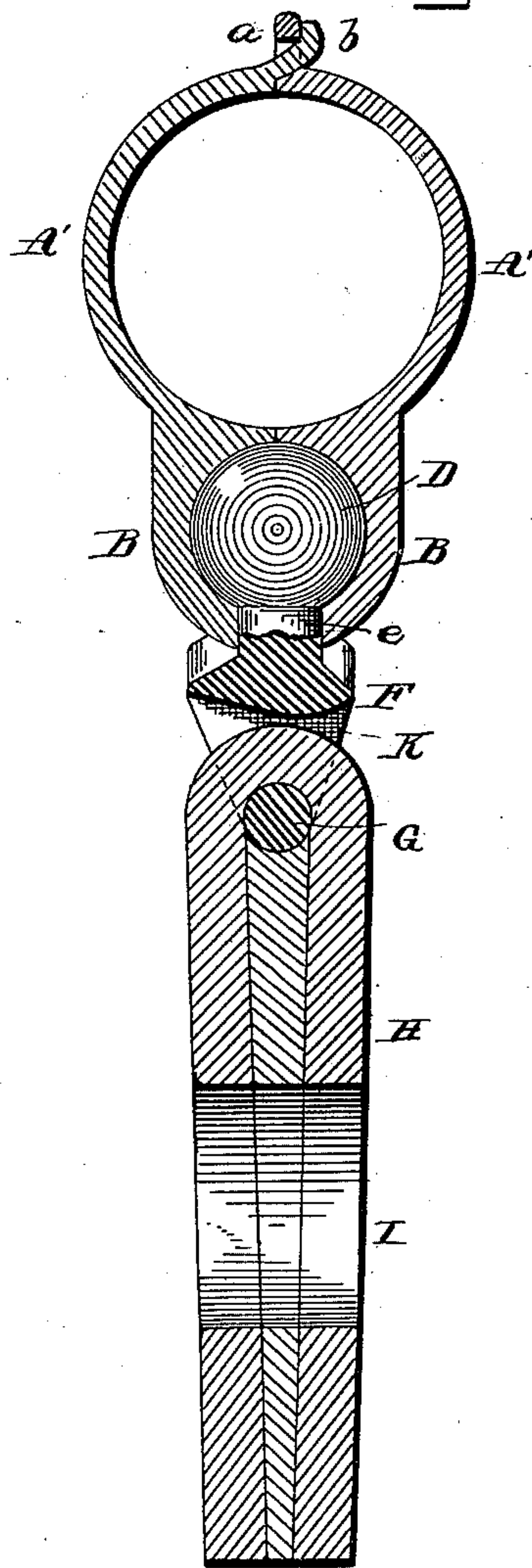
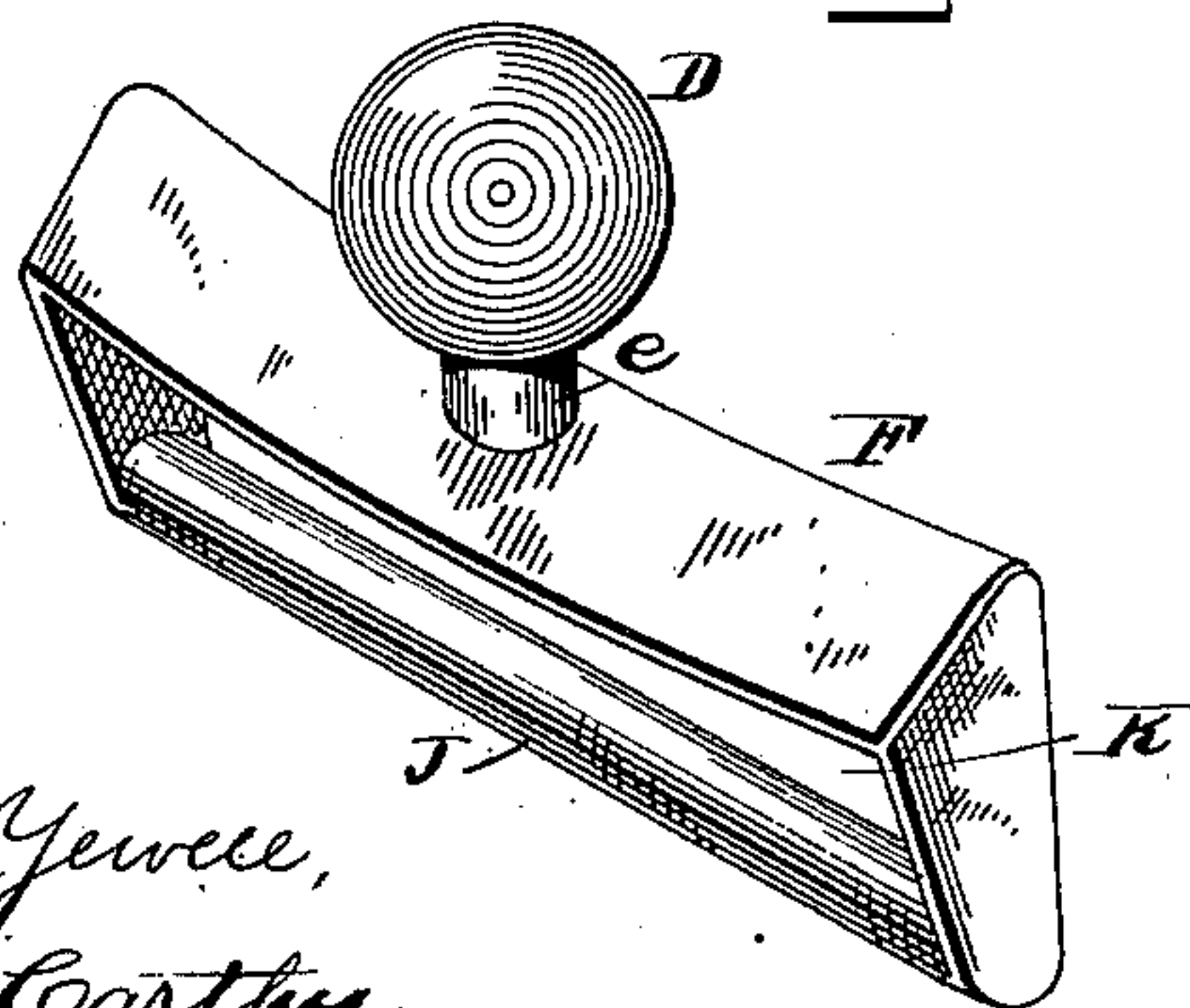


Fig. 3.



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NECK-YOKE.

SPECIFICATION forming part of Letters Patent No. 296,960, dated April 15, 1884.

Application filed December 20, 1883. (No model.)

To all whom it may concern:

Be it known that I, NICHOLAS HIATT, a citizen of the United States, residing at Independence, in the county of Montgomery and State of Kansas, have invented certain new and useful improvements in Neck-Yoke Centers, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to neck-yokes to be used when driving horses in double harness; and the object I have in view is to make one which is not only strong and durable, but one which readily accommodates itself to the movement of the horses whether they move steadily and in harmony or at variance to each other in gait.

In the accompanying drawings, which make a part of this specification, Figure 1 represents a plan view, showing a part of one shell broken away so as to disclose the ball of the joint. Fig. 2 is a longitudinal section, and Fig. 3 is a perspective, of the loop to which the leather for holding the pole is attached.

In the figures, A represents a metallic sleeve which surrounds the center of the neck-yoke stick. This sleeve is divided centrally and longitudinally in two parts, A' A'. One of these parts is provided upon its upper side with a loop, *a*, and the other with a curved tongue, *b*, which passes into and catches under the upper bar of the loop when the two parts are to be connected together. The parts A' A' are also provided on their under sides with the half-shells B B. When the two shells are brought together, a globe-shaped chamber is formed between them, which receives and retains the ball D. Connected to the shells on

each side are ears *c c*, through which the two parts A' A' are secured together at their under sides. A slot or opening, L, is made in the under side of the shell, which reaches from one ear *c* to the other, which is for the accommodation of the neck *e* of the ball.

F represents a metallic loop with neck *e* and ball D, all cast in one piece. The leather H passes through the opening K of this loop, and is secured around its lower side or bar, J. The neck *e* is cast upon the upper bar of the loop, and to the upper end of this neck is the ball D, which fits in the socket formed between the two parts of the shell.

I represents the opening in the leather, through which the end of the pole passes.

I am aware that it is not new to use a divided sleeve upon a neck-yoke stick; and I am also aware that it is not new to use a ball-and-socket joint in neck-yoke attachments; hence I do not claim these; but,

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

The loop F, with its bar J, for holding the leather H, the neck *e*, and the ball D, all cast in one piece, in combination with the divided sleeve provided with a shell in which is a globe-shaped socket to receive and retain the ball D, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

NICHOLAS HIATT.

Witnesses:

E. P. ALLEN,
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