

(No Model.)

A. D. NEFF.  
GATE.

No. 525,155.

Patented Aug. 28, 1894.

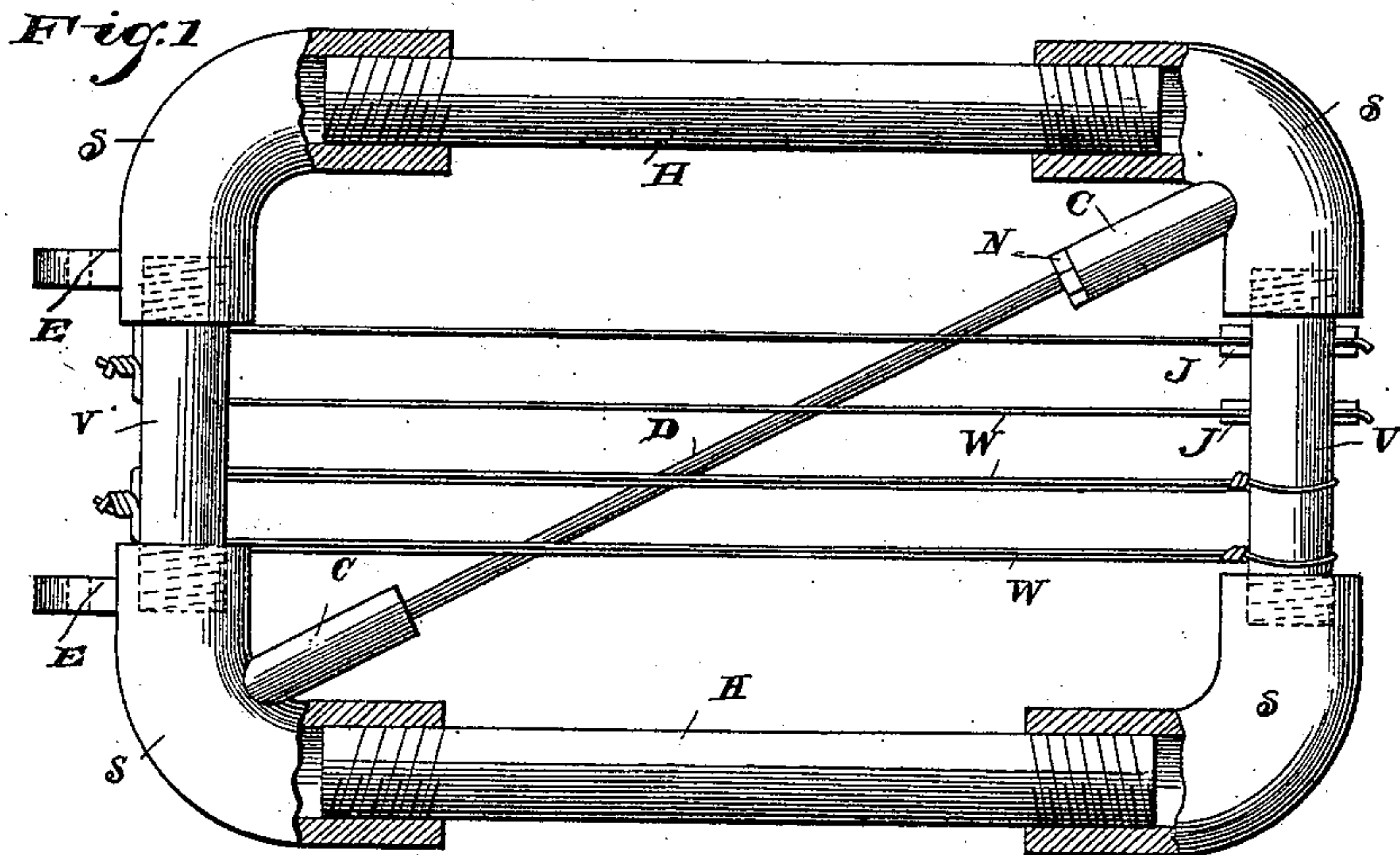


Fig. 2.

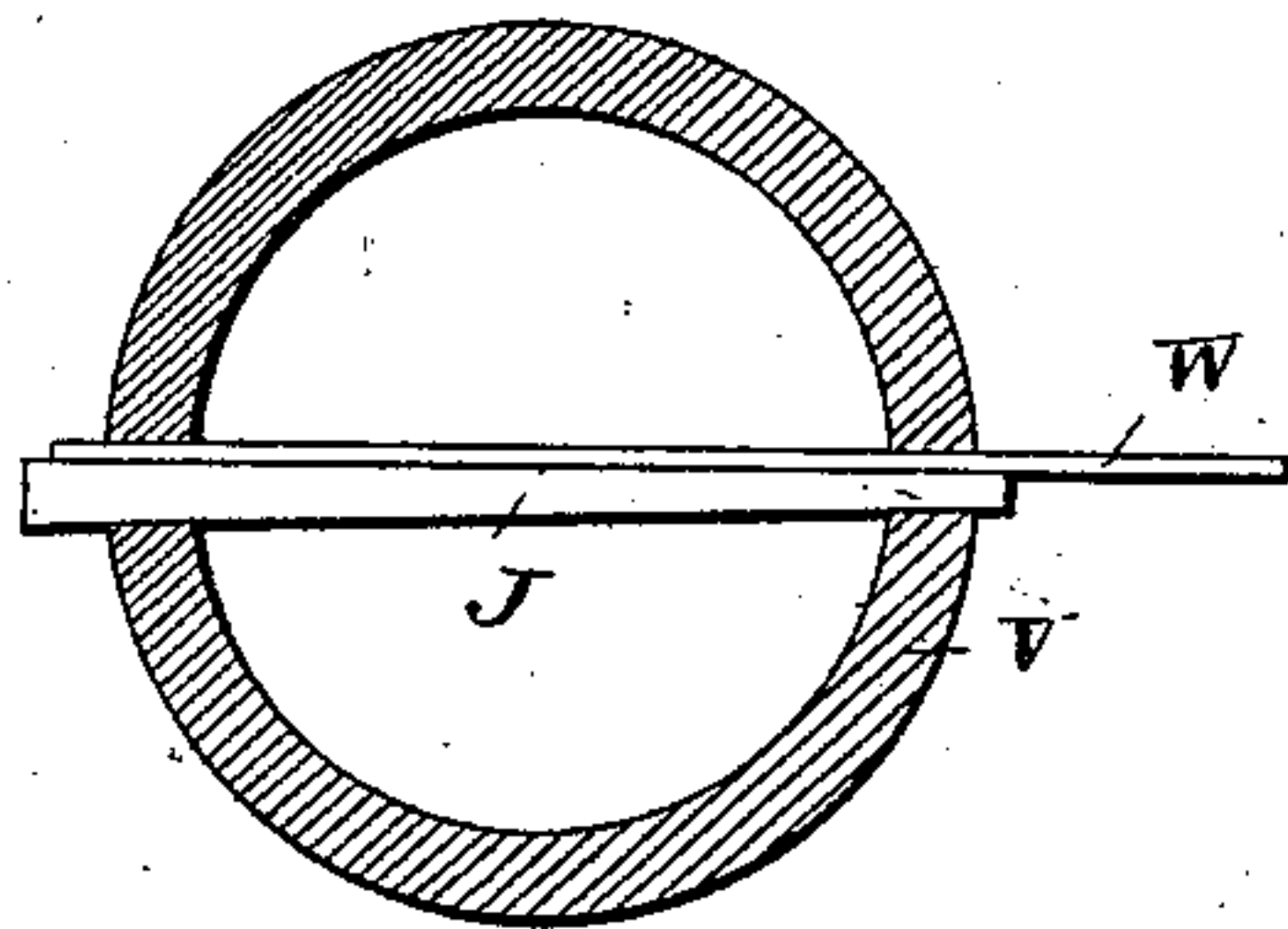


Fig. 3.

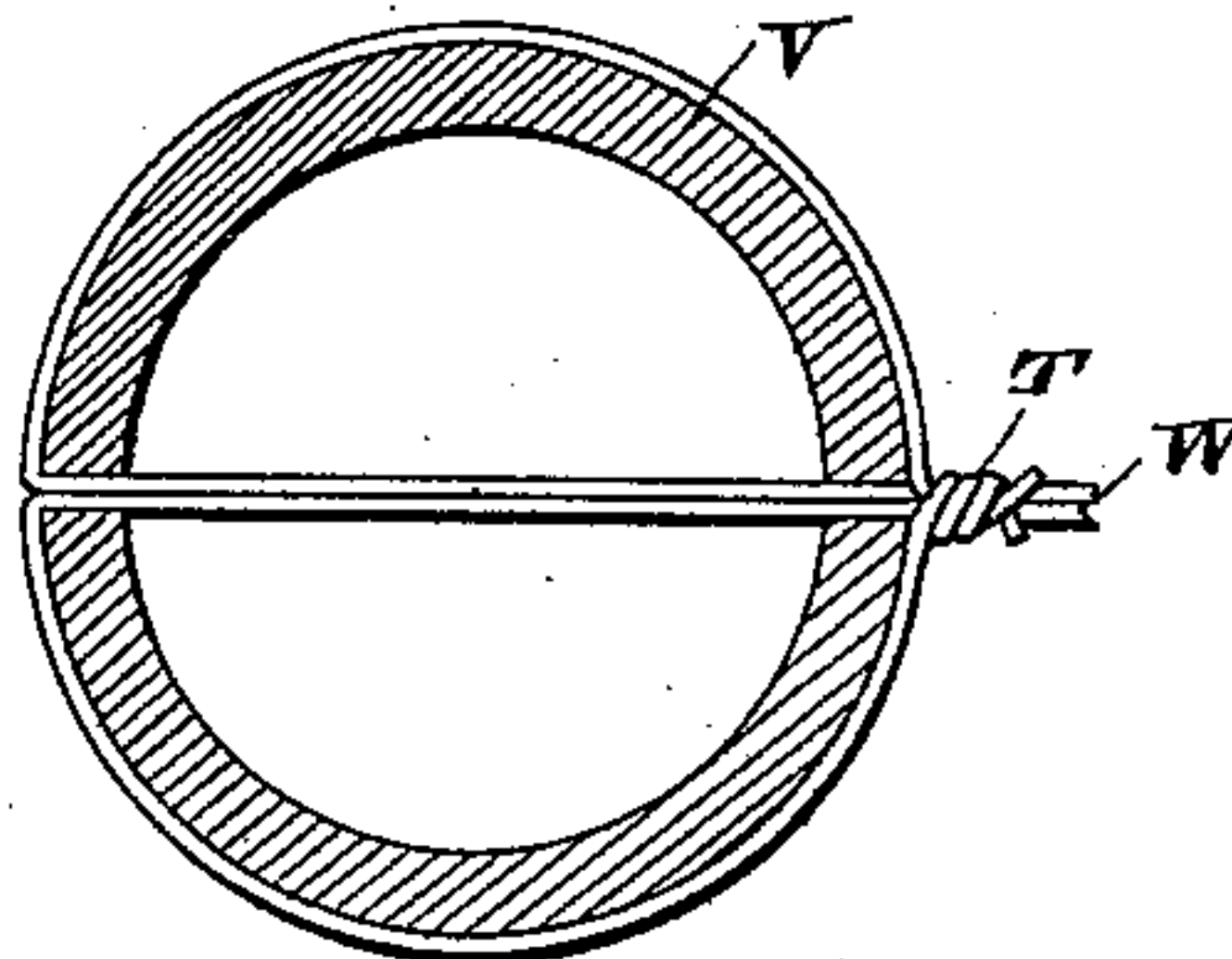
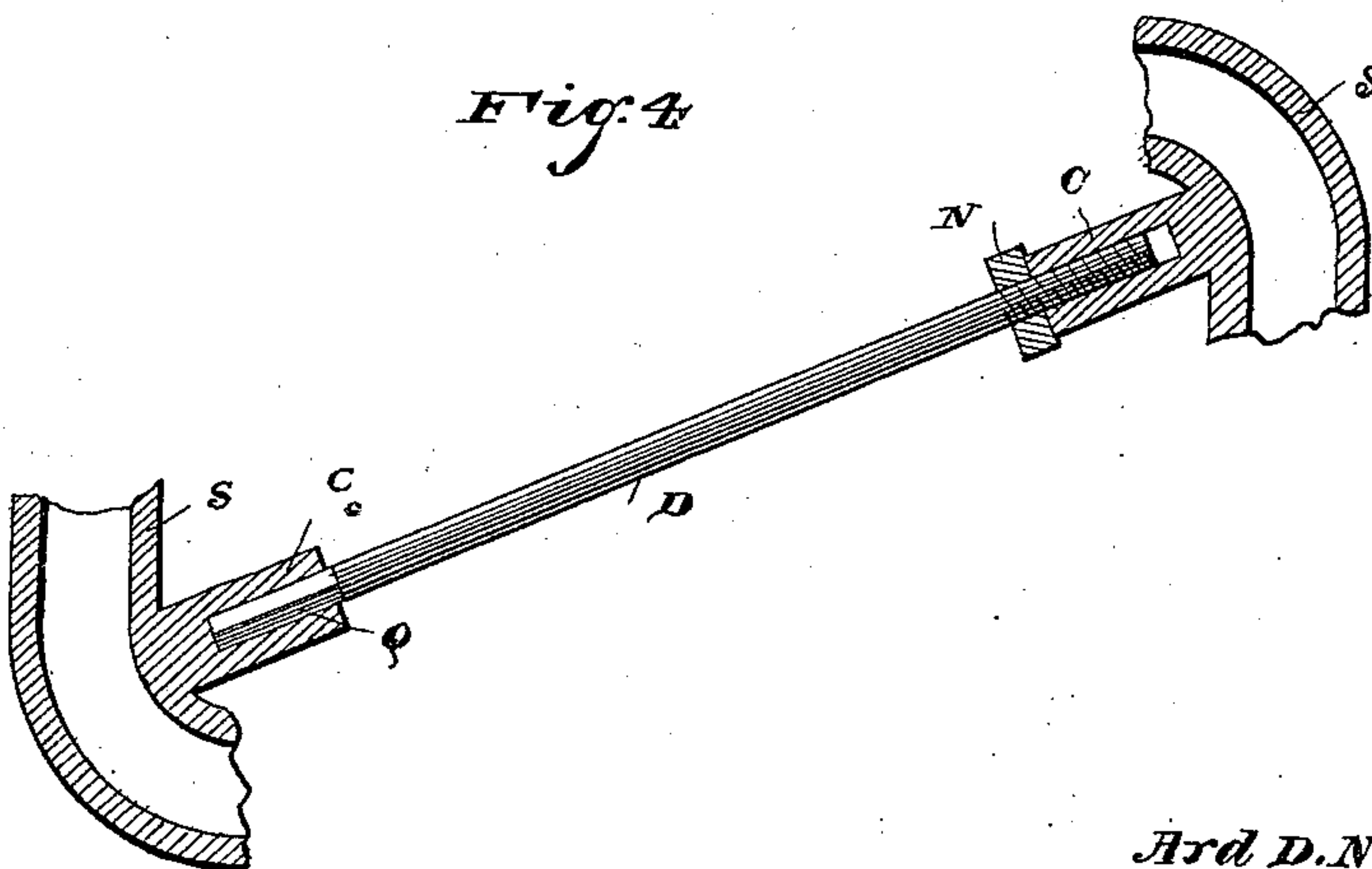


Fig. 4.



Witnesses

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# UNITED STATES PATENT OFFICE.

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## GATE.

SPECIFICATION forming part of Letters Patent No. 525,155, dated August 28, 1894.

Application filed December 1, 1890. Renewed January 22, 1894. Serial No. 497,718. (No model.)

*To all whom it may concern:*

Be it known that I, ARD D. NEFF, a citizen of the United States; residing at Petersburg, in the county of Huntingdon and State of Pennsylvania, have invented a new and useful Gate, of which the following is a specification.

This invention relates to gates, and the object of the same is to produce improvements upon devices of this same general character heretofore constructed.

To this end the invention consists of the specific details of construction hereinafter more fully described and claimed, and as illustrated in the drawings, in which—

Figure 1 is an elevation of my improved gate. Figs. 2 and 3 are sectional views of different arrangements of connection between the wires and the end-bars of the gate. Fig. 4 is an enlarged elevation of the brace with its ends and the corner sockets in section.

Referring to the said drawings, the letters H designate horizontal and V vertical tubes which are screwed at their ends into sockets S at the four corners of the gate, the threads upon the opposite ends of the vertical tubes being alike, but the threads upon the opposite ends of the horizontal tubes being different so that when these tubes are turned in the proper direction the end-bars or tubes will be moved from or toward each other and the gate will be lengthened or shortened as desired and for a purpose hereinafter described. Cast integral upon two of the sockets S as shown are ears E having perforations as seen in Fig. 4 which are adapted to turn upon the pintles of any preferred form of hinge, the same constituting no part of the present invention.

The letters W designate wires, preferably corresponding with the horizontal wires of the fence in which my improved gate may be located, and these wires connect the vertical tubes V, as best seen in Fig. 1. They may be connected in pairs by a simple twist T outside the vertical tubes as seen in Fig. 1; the wires W may pass through holes in the tubes and be held in place by wedges J, as in Fig.

2; or, if the wires W be each of two strands, these strands may be passed through the tube, separated at the outside thereof, led thence around the tube, and connected by a twist T, as seen in Fig. 3. The horizontal wires W being thus put in place and connected to the end tubes, the horizontal tubes H are given several turns in the proper direction to tighten all the wires. The advantage of passing the wires W through the end-tubes is that when this tension is applied these wires do not cause the tubes to rotate.

The letter D designates a diagonal brace which I employ for preventing the sagging of the gate. This brace has one end squared as at Q and seated in a correspondingly-shaped socket C, which is formed in one of the sockets S. The other end of the brace is threaded as shown and passes loosely into the other socket C, and a nut N engaging the threads bears against the outer end of this socket. By this construction of parts the nut may be turned to adjust the length of the brace. The sockets C are cast integral with the inner lower and upper outer corner sockets S and the braces are used upon short or light gates, the bracing action of the braces being given by pressure upon their opposite ends.

What is claimed as new is—

In a gate, the combination with the corner sockets, and bars connecting them, of cup-shaped sockets on the inner faces of the inner lower and upper outer corner sockets, one of said cup-shaped sockets being internally square and the other internally cylindrical, a stiff diagonal brace having a square end loosely seated in the square socket and having its other end threaded and loosely seated in the cylindrical socket, and a nut on said thread bearing against the end of the socket, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

ARD D. NEFF.

Witnesses:

B. S. RUMBERGER,  
B. K. NEFF.