

(No Model.)

G. CASE.
SPOOL FOR BARB WIRE.

No. 312,970.

Patented Feb. 24, 1885.

FIG. 1.

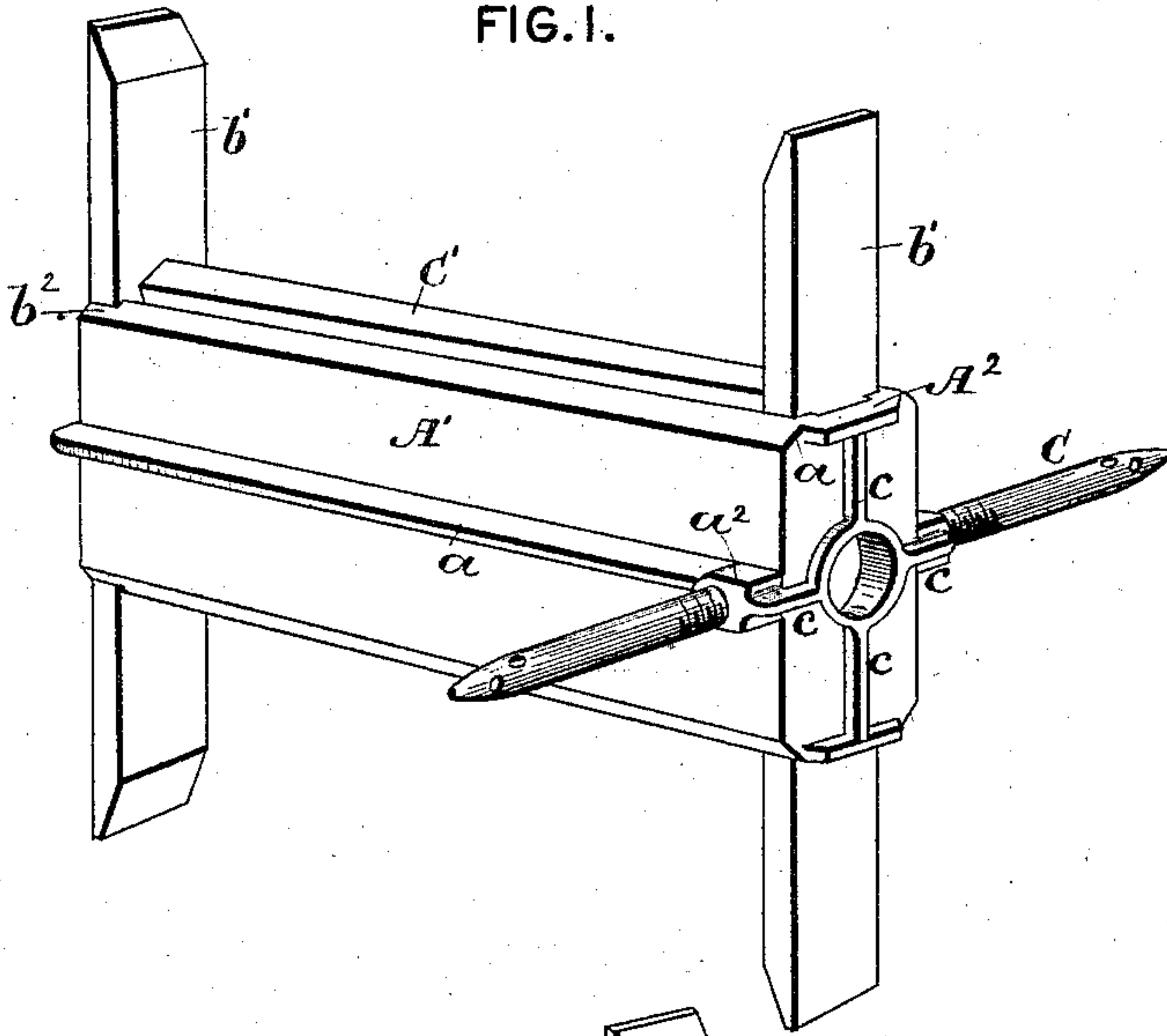


FIG. 2.

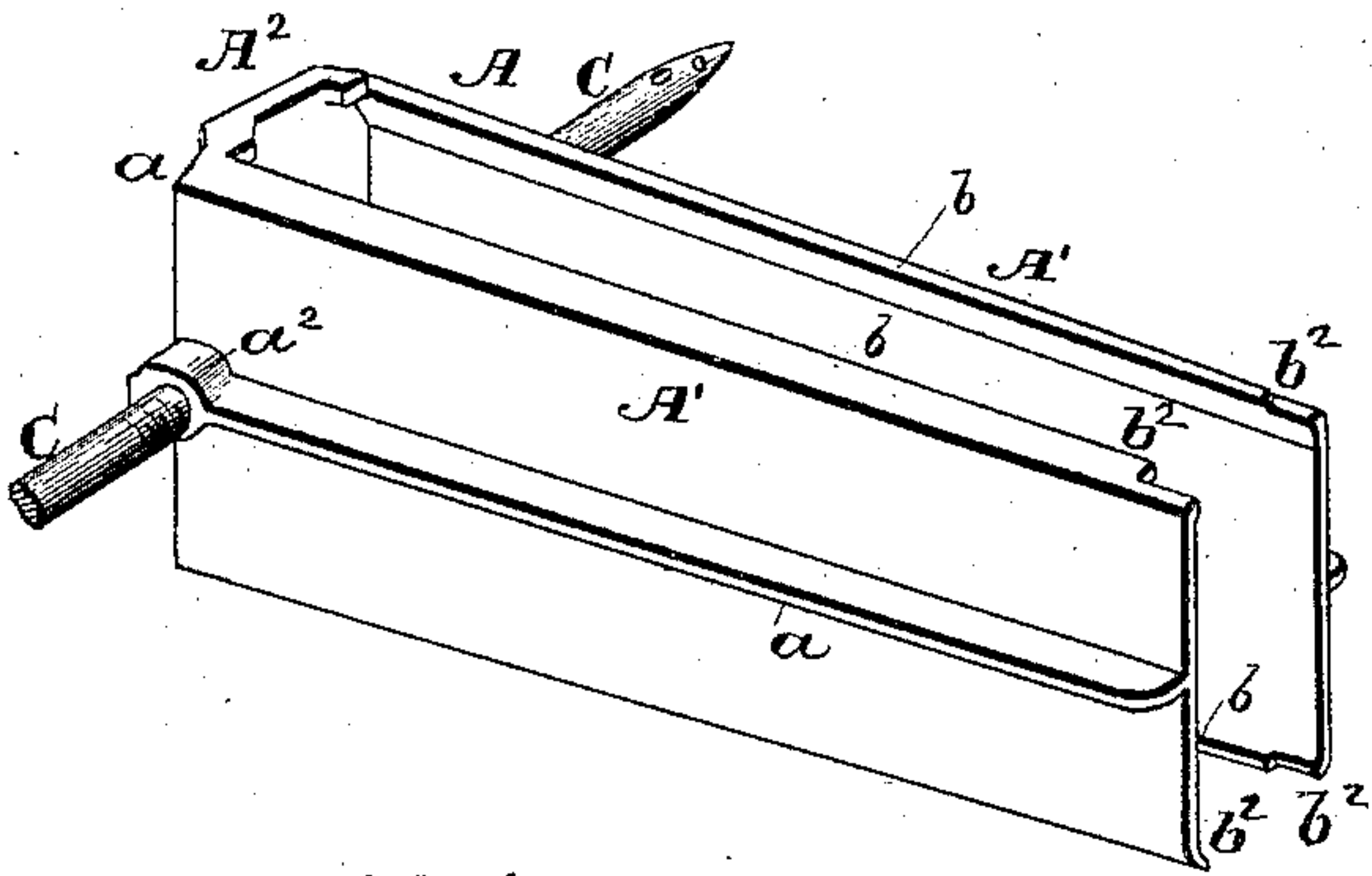


FIG. 3.

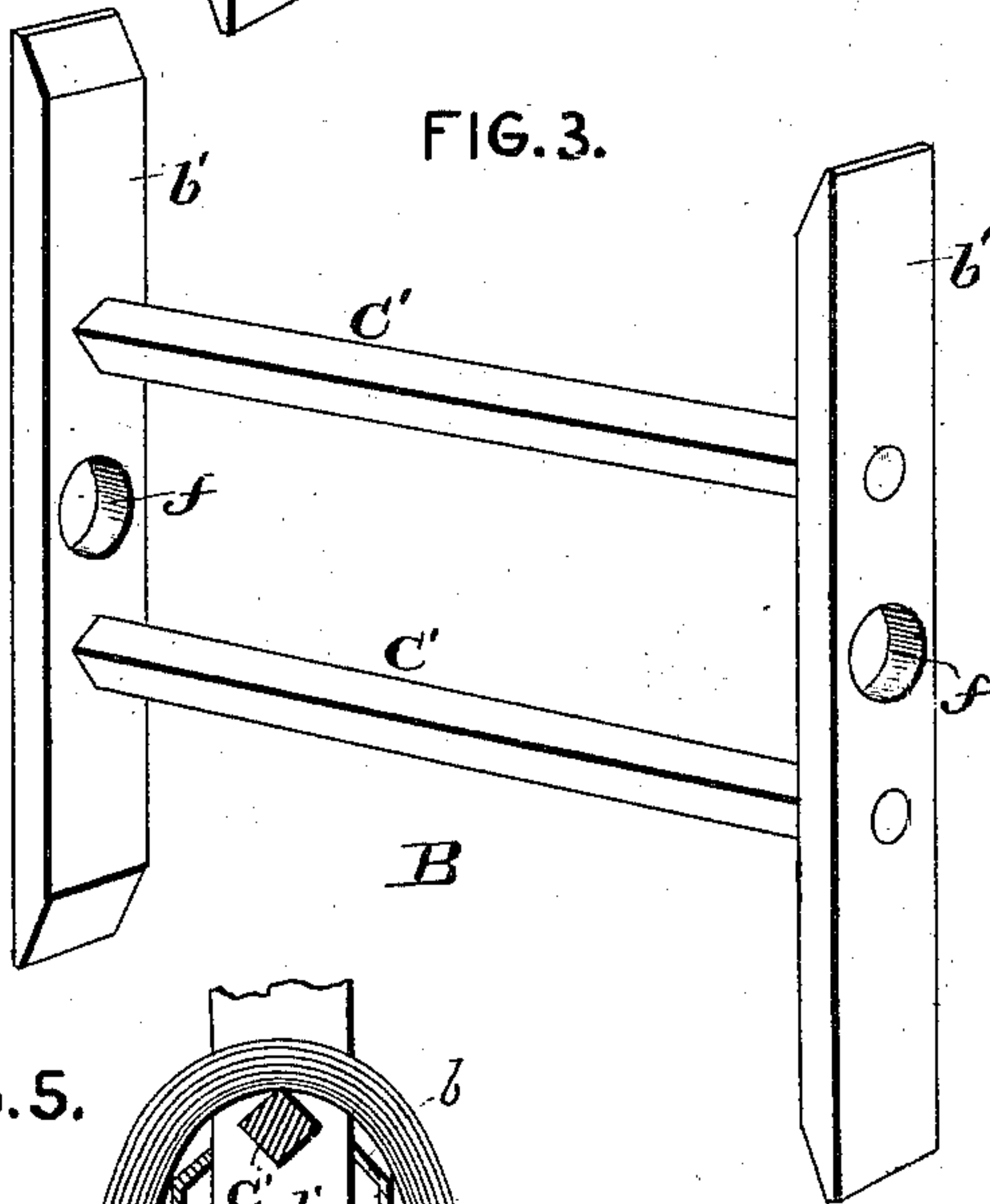


FIG. 4.

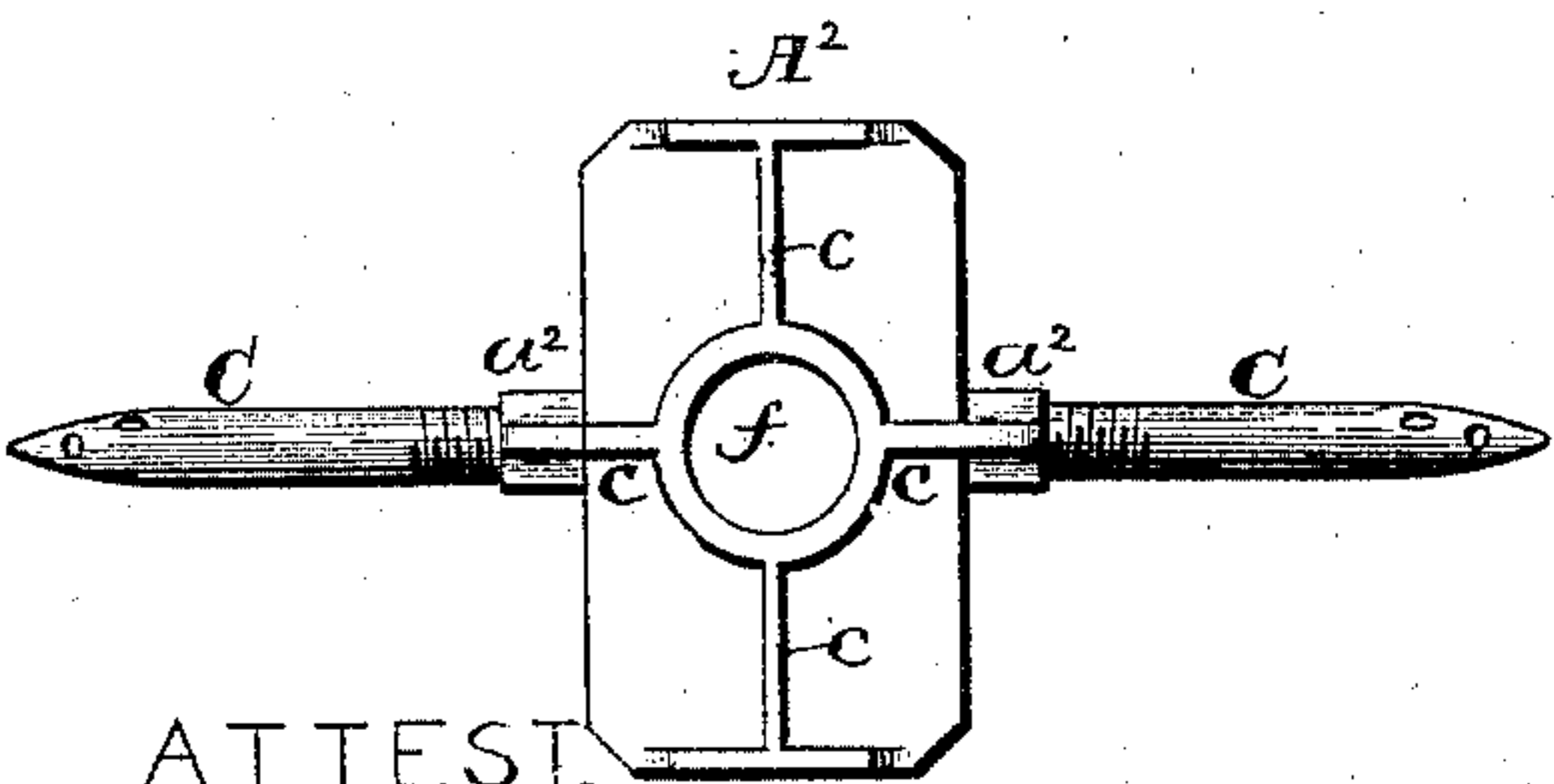
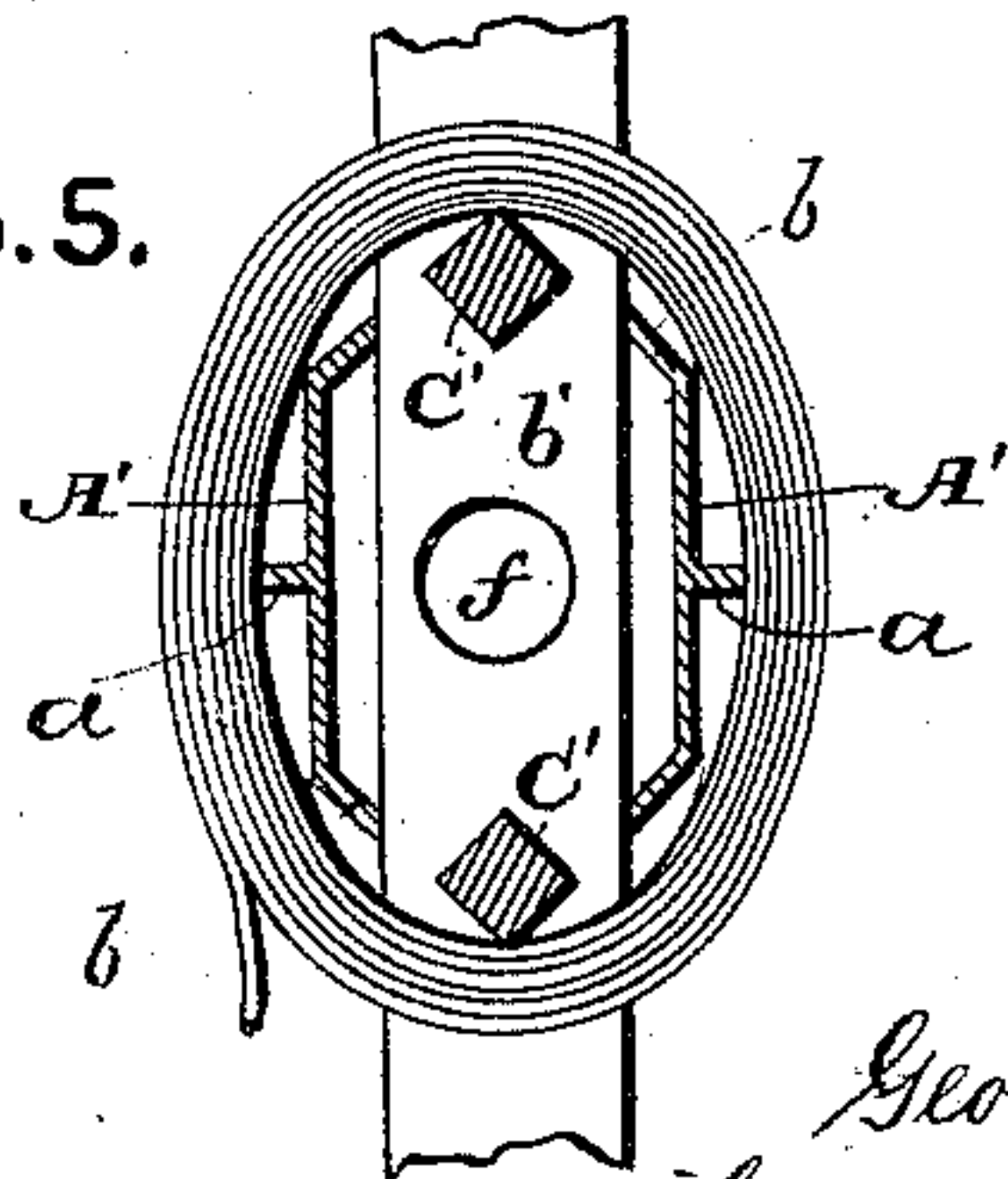


FIG. 5.



ATTEST.
J. Henry Kaiser.
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INVENTOR.
George Case
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UNITED STATES PATENT OFFICE.

GEORGE CASE, OF JOLIET, ILLINOIS, ASSIGNOR TO WILLIAM T. CONKLIN,
OF SAME PLACE.

SPOOL FOR BARB-WIRE.

SPECIFICATION forming part of Letters Patent No. 312,970, dated February 24, 1885.

Application filed November 15, 1884. (No model.)

To all whom it may concern:

Be it known that I, GEORGE CASE, a citizen of the United States, residing at Joliet, in the county of Will and State of Illinois, have
5 invented certain new and useful Improvements in Spools for Barb-Wire, of which the following is a specification, reference being had therein to the accompanying drawings.

Figure 1 is a perspective view of the spool
10 complete, having the wood binding-frame applied to it. Fig. 2 is a perspective view of the reel-core as it is cast entire, with the clamping-reel spokes applied to it, the core being represented as tapering from its connected
15 ends to its open ends. Fig. 3 is a perspective view of the wood binding-frame which is used in connection with my improved core, about which the wire is wound and retained after the coil is removed from the core.
20 Fig. 4 is an end view of my improved spool-core. Fig. 5 is a cross-section of the core, showing its ribs and coil of wire.

This invention relates to spools or reels which are especially designed for use in connection with what are technically known as
25 "fence-wire twisters;" and the nature of my invention consists in an open tapered core which is cast entire and adapted to receive the wood binder of the coil; also, in a wooden
30 frame or binder which is composed of two arms united permanently by wooden arms, which, when they are in place in the core, will constitute part of the reel or spool, and also serve to hold the coil of wire when re-
35 moved from the spool-core.

My object is to so construct a core for a reel which is closed at one end and open at the other, and which tapers from the closed end to the open end, for the purpose of readily
40 withdrawing the core from the coil of wire after the latter has been completed. Another object is to afford both metal and wood bearings for the coil of wire on the spool, and rigid wood bearings for the same when re-
45 moved from the metal case, all of which will be fully understood from the following description when taken in connection with the annexed drawings.

A designates a bifurcated metal core, which
50 I cast in one piece, and which is tapered from the connected end *a* to its open end. This

core is adapted to receive a wood frame, B, as shown in Fig. 1.

The metal core is constructed as follows: A' A' designate two jaws, which are cast with a
55 head, *a*, entire. These jaws are respectively constructed with re-enforcing ribs *a'*, and also with internal flanges, *b b*, terminating in shoulders or notches *b² b² b² b²*, against which one of the wooden parts *b'* abuts, as shown in Fig. 60
1. The head *a* is shown in Fig. 4 re-enforced with ribs *c c*, that strengthen it. The core A is also constructed with offsets *a²*, diametrically opposite each other, which are screw-tapped to receive spokes or reel-arms C. 65
These reel-arms C are straight and round, and it is desirable to have perforations *d* through them, for the purpose of receiving a lever to screw them into place or retract them.

The wood frame which I have above de- 70
scribed, and which I have shown in Fig. 3, is composed of two wooden parts, *b' b'*, connected by bars *c' c'*, also composed of wood, united permanently, and especially adapted for receiving a wire coil and retaining in place 75
the same as a spool.

It will now be observed that I construct a coil-holder of wood entire, and that I dispense with the usual well-known wire connections between the clamps. 80

In constructing my reel or spool it will be seen that I have a solid metal core, which is a tapered bifurcated frame having bearing-ribs *a* externally and metal flanges *b b b b* internally. When the frame B is adjusted in 85
its place in the core frame or box, as shown in Fig. 1, this frame is rigidly secured in place by means of the spokes C C, screwed tight against them.

The spool which I have above described is 90
especially adapted for application to a wire-twisting machine which is provided with a wheel having stationary arms. The open end of the spool or reel is adjusted in close relation to said wheel, and the spool-shaft, on 95
which is keyed said wheel, is passed through the core and arms of the binding-frame B, and has its bearings in the sides of the frame of the twisting-machine, and is rotated by the usual well-known mechanism. 100

By reference to Fig. 5 it will be seen that the coil D of wire has a bearing on the ribs *a*

a of the metal core A, and that it also has a bearing on the angular wooden ribs or bars c' of the binding-frame.

When a coil of wire is completed on the
5 spool, the latter is removed from the twisting-machine and the metal core A drawn out, leaving the core on the rigid wooden binding-frame in a compact condition and firmly held, ready for transportation.

10 Having described my invention, what I claim is—

1. The combination of a rigid tapered wire-spool core constructed with adjustable clamping-arms and a rigid removable spool binding-
15 frame, substantially as described.

2. The U-shaped tapered coil-core, closed at one end, open and notched at the other end, and provided with ribs a , in combination with binding-frame B, substantially as described.

3. A wire-coil spool having a U-shaped coil-
20 core, the adjustable clamping-arms, the shoulders b^2 , and the binding-frame B, substantially as described.

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

GEORGE CASE.

Witnesses:

CHARLES W. STAEHLE,
CHARLES F. BLOOD.