

June 10, 1930.

D. C. MEYER

1,763,060

TELEPHONE EXCHANGE EQUIPMENT

Filed May 13, 1927

FIG. 1.

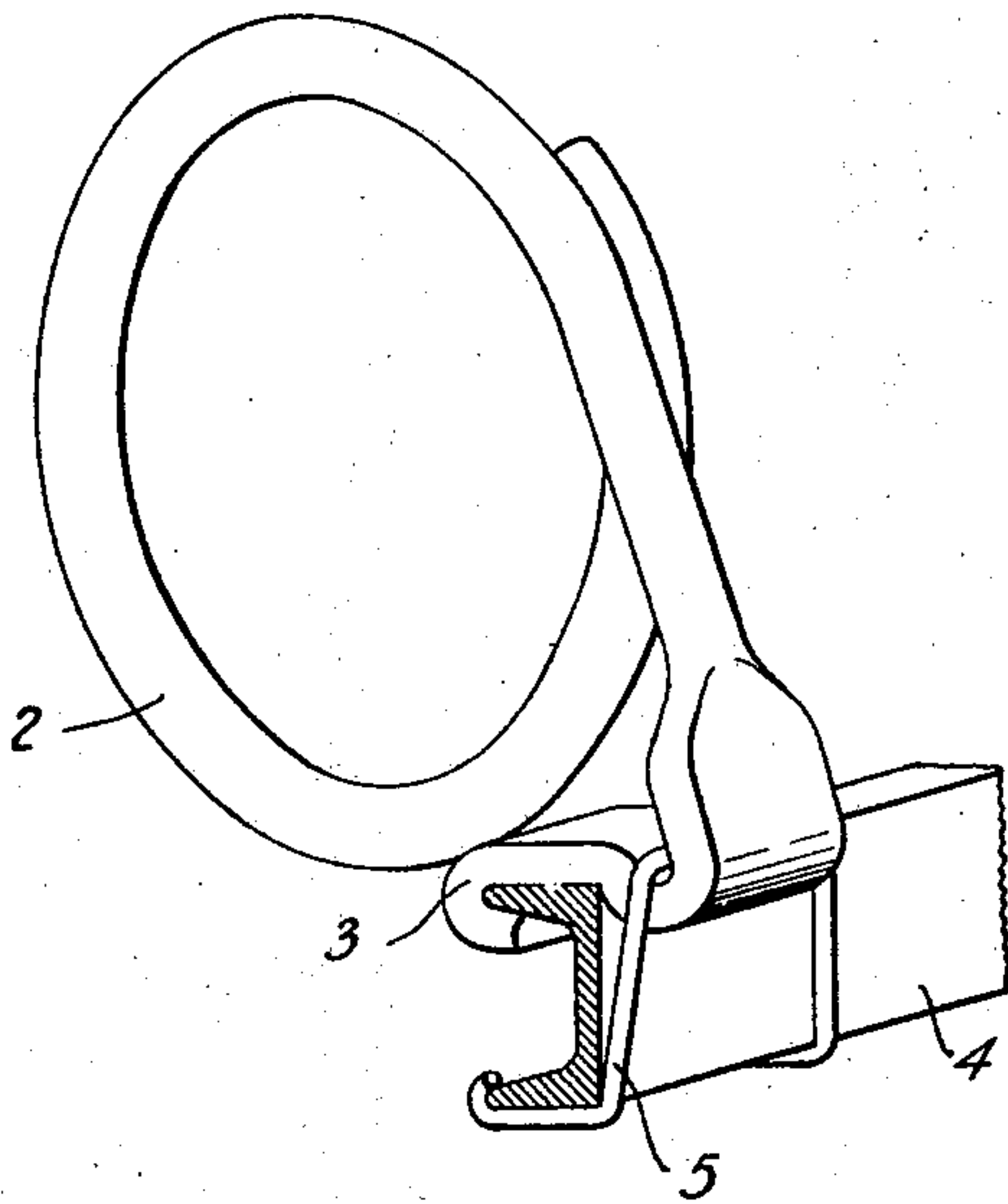


FIG. 2.

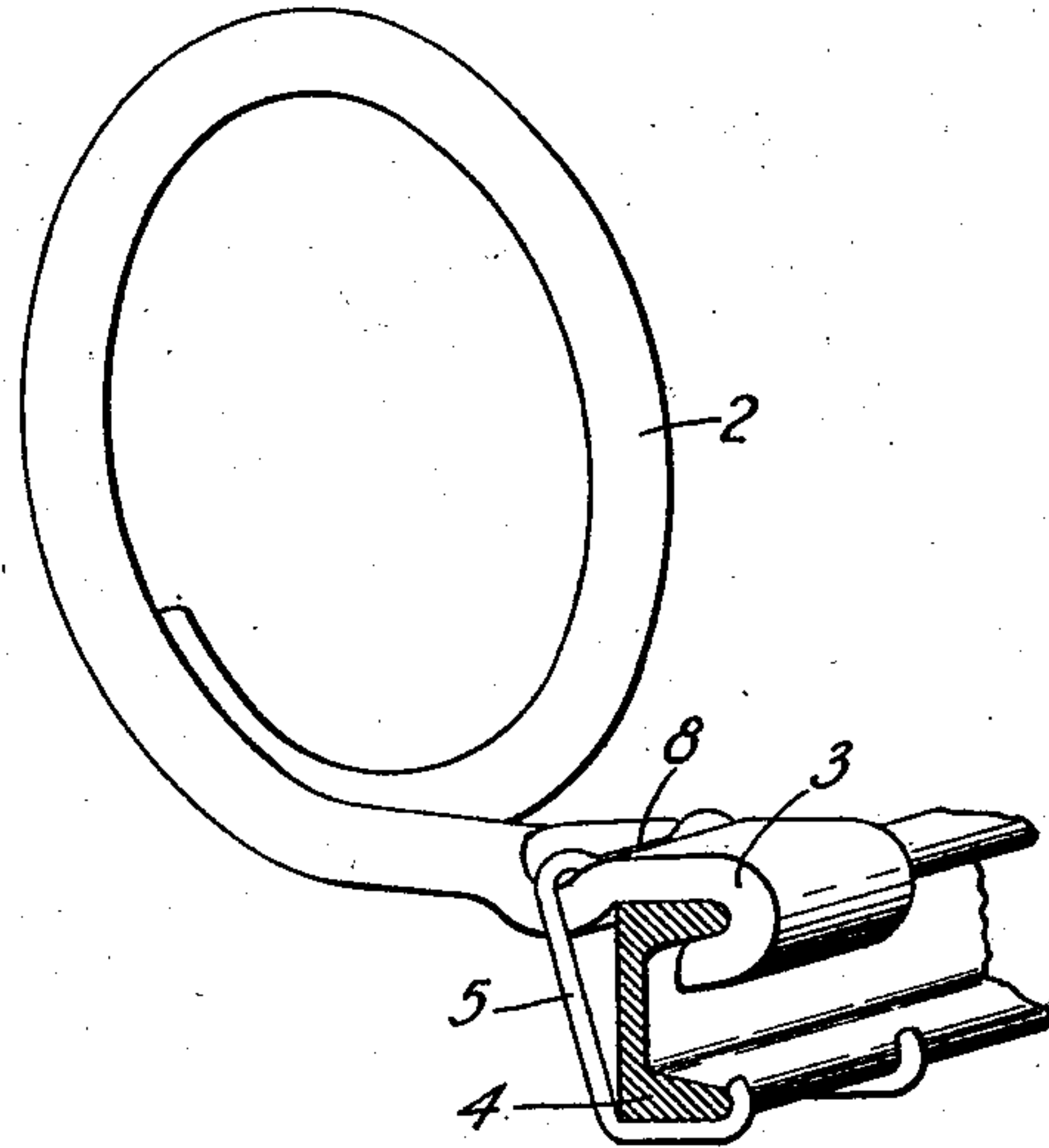
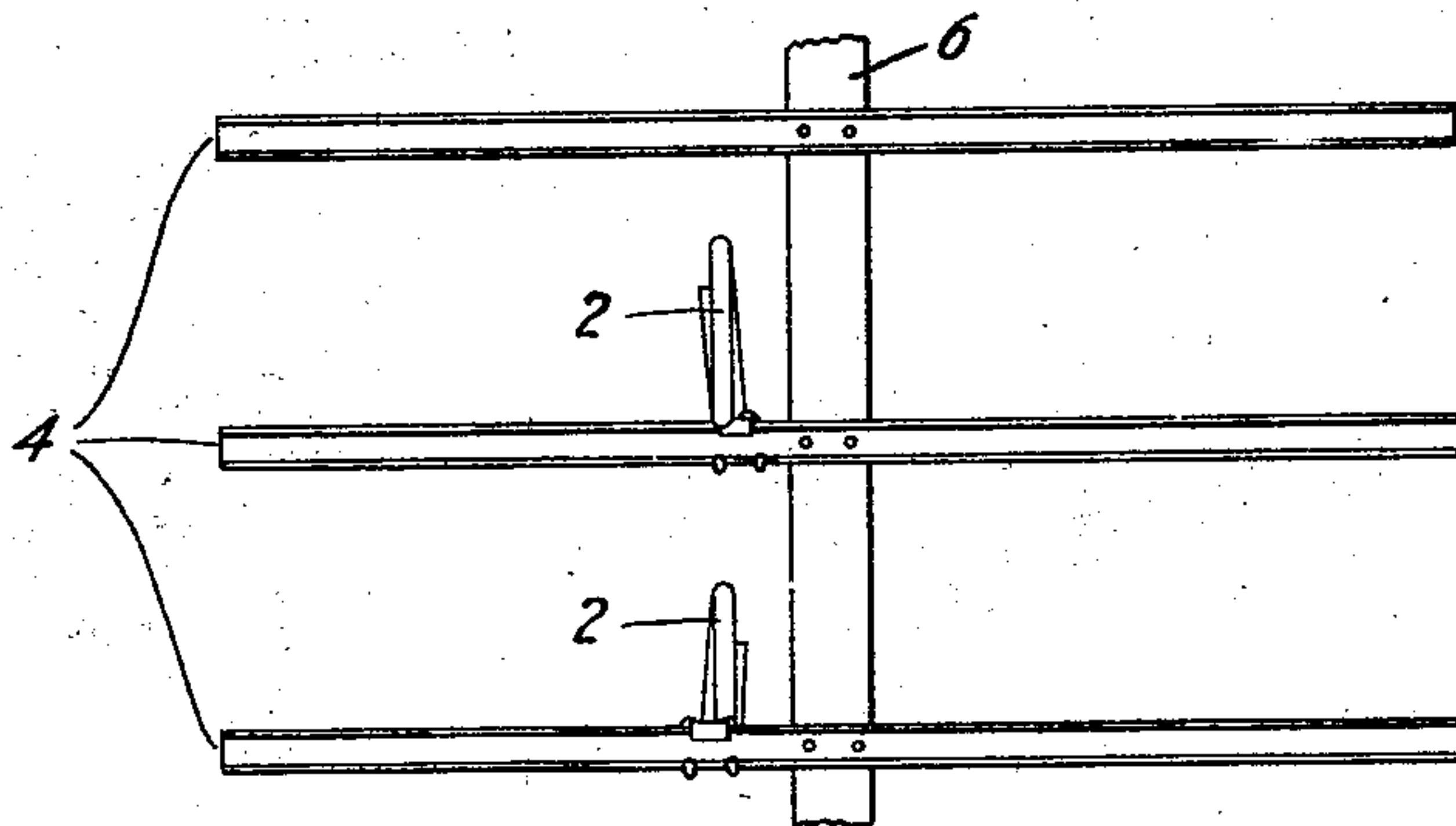


FIG. 3.



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## UNITED STATES PATENT OFFICE

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## TELEPHONE-EXCHANGE EQUIPMENT

Application filed May 13, 1927. Serial No. 191,002.

This invention relates to telephone exchange equipment and more particularly to improvements in distributing frames.

The term "distributing frame" is well known in the art of telephony and is applied to that part of central office equipment which is employed as a means for uniting incoming line wires with wires or conductors leading to the switchboard apparatus.

As is clearly shown in Figs. 2 and 3 of Patent No. 816,847 to F. B. Cook, April 3, 1906, a distributing frame consists primarily of coordinately disposed supporting members, at the intersections of which are placed jumper rings, which provide an efficient means for supporting wires which interconnect terminals, the positions of which, on the distributing frame, may be widely separated. According to usual practice, holes are drilled in the various supporting members to provide means for positioning the jumper rings and clamping them in position on the frame by means of nuts and bolts.

It is the object of this invention to provide an improved means for securing jumper rings to distributing frames. This object is accomplished by the provision of a distributing or jumper ring having a hooked portion adapted to engage a flange on a distributing frame member, and a clamping member having a hooked portion adapted to engage another flange of the same member and coact with said ring to securely hold the ring in position.

Referring to the drawings, Fig. 1 is a perspective view, partly in section, of a portion of a horizontal supporting member of a distributing frame, with a distributing ring mounted thereon.

Fig. 2 is a similar perspective view of a modified form of the invention in which the distributing ring is mounted at a different angle relative to the supporting member.

Fig. 3 is an elevational view of a portion of a distributing frame with the distributing rings in position on the horizontal frame members.

In detail, the drawings show a distributing ring 2 with its hooked portion 3 in engagement with a flange of the channel bar

or supporting member 4, and a spring clamp 5 with its hooked ends engaging the other flange of bar 4 and its body engaging ring 2, in such a manner as to securely clamp it in position on the channel bar. The portion of a distributing frame as shown in Fig. 3 consists of the channel bars 4 secured to and coordinately disposed with respect to a vertical supporting member 6. The clamping spring 5 is provided with an inverted hump or bulge 8 which engages a bend in the ring member as shown, which prevents slipping of the clamping member and provides a tension which permits the ring to be more easily placed on the frame and more firmly secured thereto.

This arrangement permits a quicker assembly of the distributing frames in that fewer operations are required to attach a jumper ring to the supporting members, and also obviates the necessity of drilling holes in the framework and the consequent weakening thereof. With this arrangement a jumper ring may be removed or its position changed on the supporting member with very little difficulty.

What is claimed is:

In a mechanical device for mounting on a flanged member, a support having a hooked end for engagement with a flange on said flanged member and provided with a depression, and a substantially U-shaped spring clamp having L-shaped extensions for engagement with another flange of said flanged member and a receding portion in the base thereof for engaging the depression in said support, said support and said spring clamp coacting to effect a resilient fastening means for securing the device to the flanged member.

In witness whereof I hereunto subscribe my name this 12th day of May, A. D. 1927.

DELBERT C. MEYER.