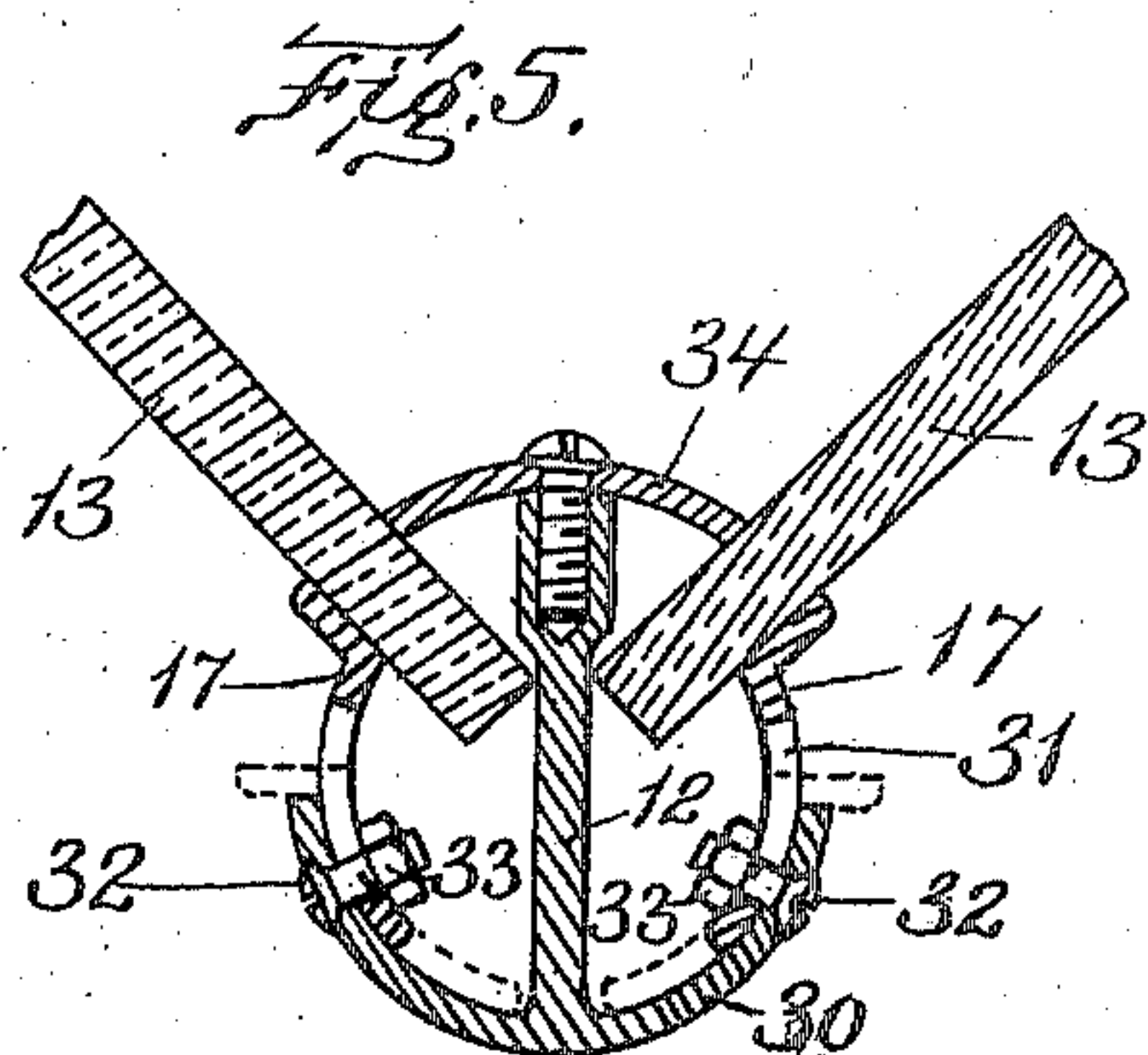
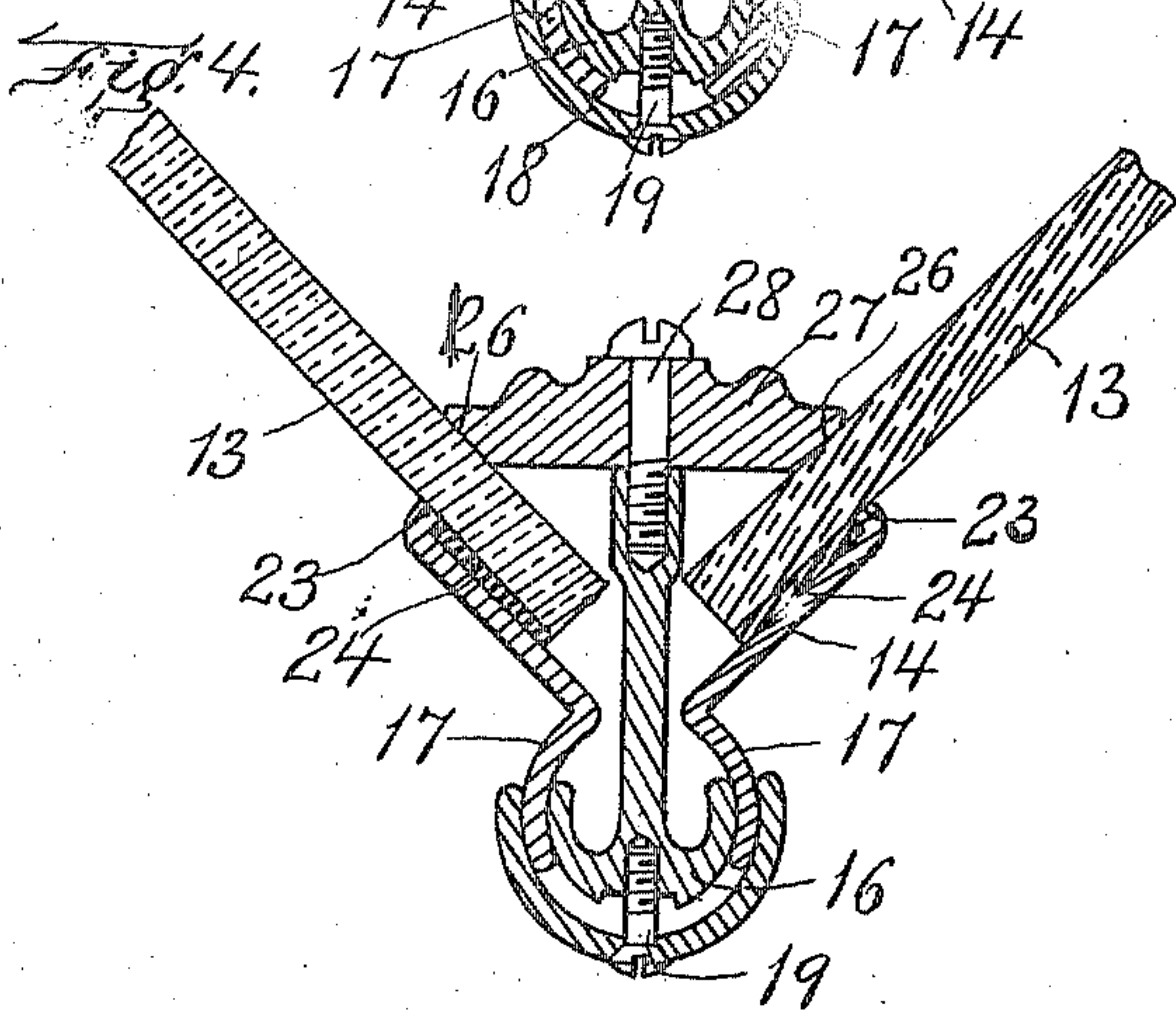
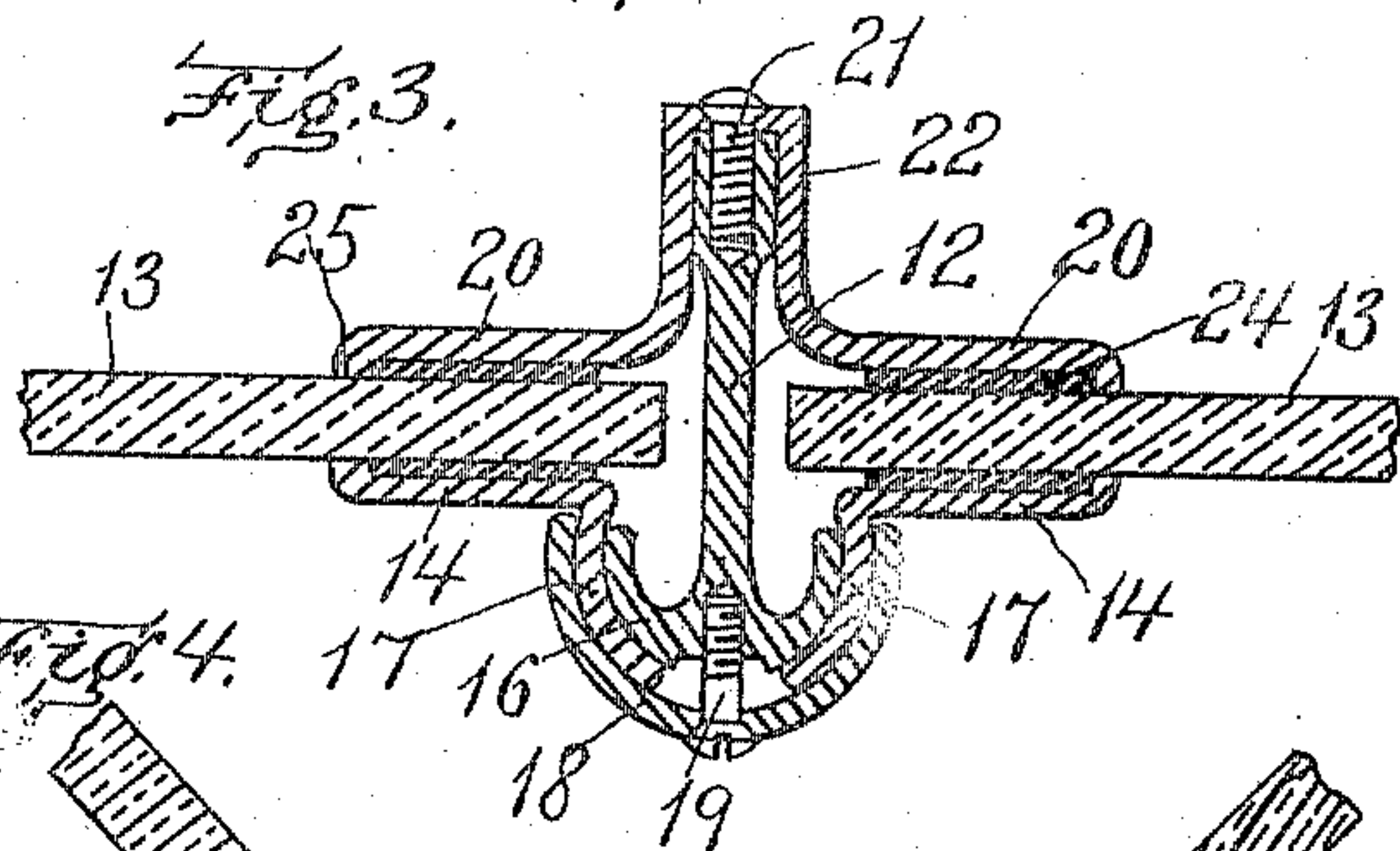
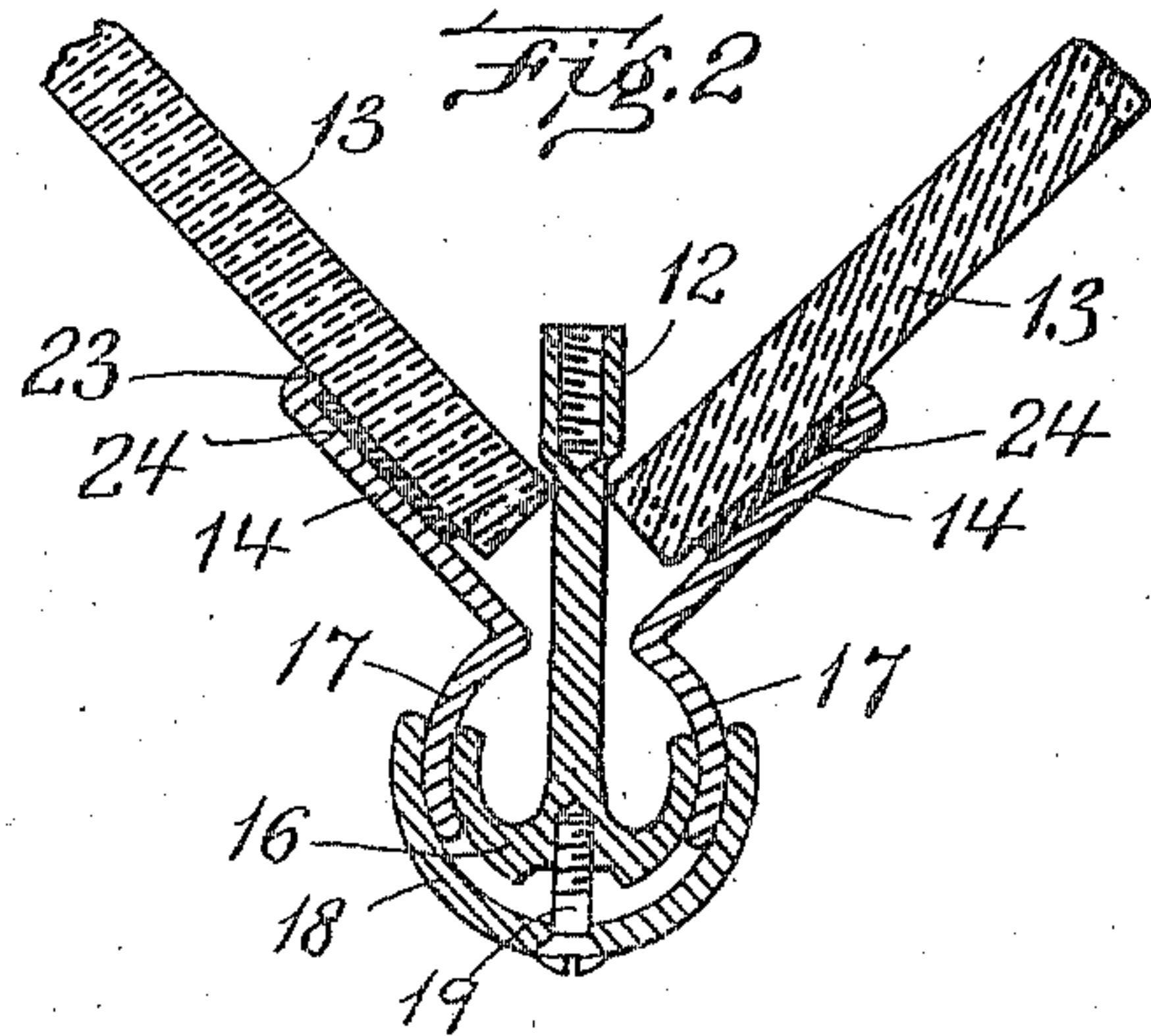
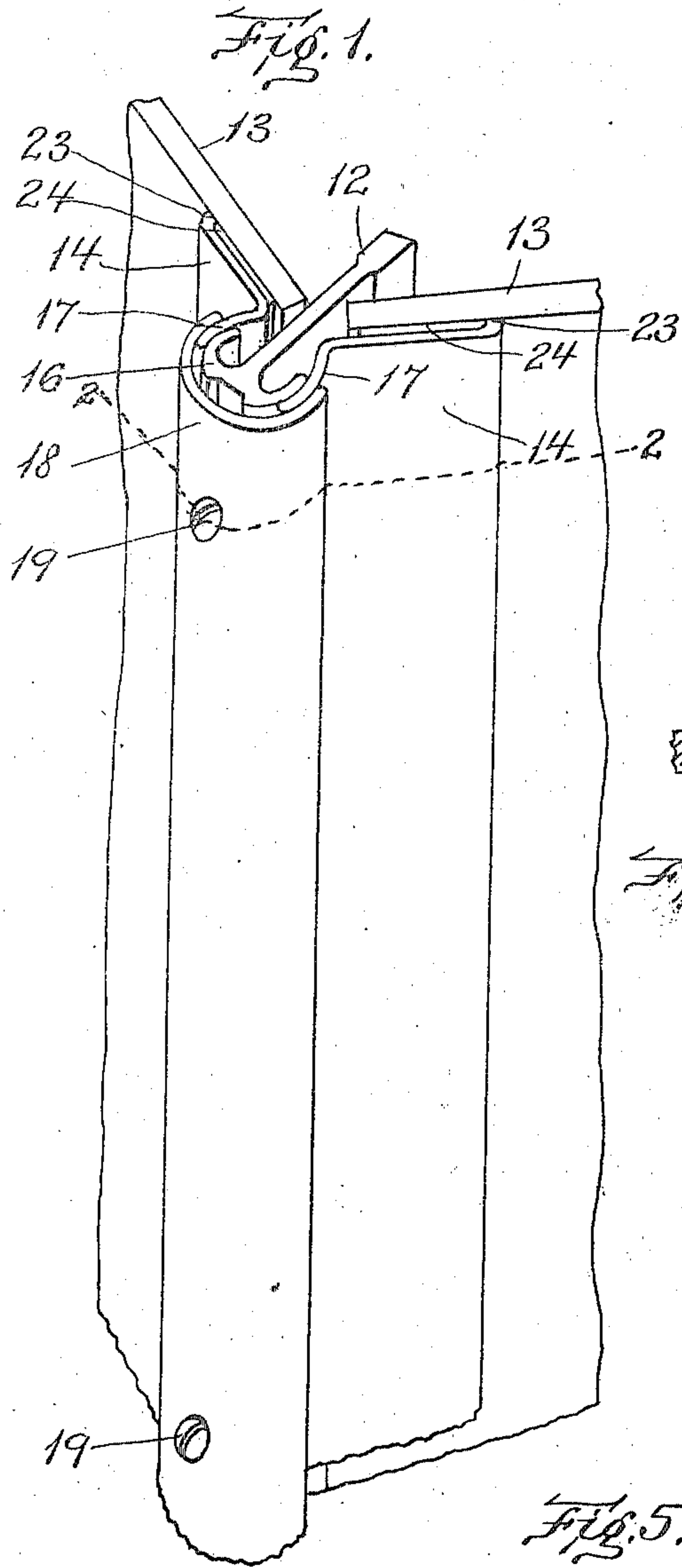


T. F. MoGANN.
SASH BAR.

APPLICATION FILED APR. 14, 1909. RENEWED DEC. 14, 1909.

947,617.

Patented Jan. 25, 1910.



Witnesses.
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UNITED STATES PATENT OFFICE.

THOMAS F. MCGANN, OF SOMERVILLE, MASSACHUSETTS, ASSIGNOR TO THE THOMAS F. MCGANN & SONS COMPANY, OF BOSTON, MASSACHUSETTS, A CORPORATION OF MAINE.

SASH-BAR.

947,617.

Specification of Letters Patent.

Patented Jan. 25, 1910

Application filed April 14, 1909, Serial No. 489,804. Renewed December 14, 1909. Serial No. 533,113.

To all whom it may concern:

Be it known that I, THOMAS F. MCGANN, of Somerville, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Sash-Bars, of which the following is a specification.

This invention has for its object to provide a sash bar adapted to securely connect adjacent edges of plates or panes of glass, particularly large panes of plate glass, such as are used for show windows, the bar being of simple and durable construction and adapted to connect plates either in alignment with each other, or at various angles.

The invention consists in the improvement which I will now proceed to describe and claim.

Of the accompanying drawings, forming a part of this specification,—Figure 1 represents a perspective view showing portions of two glass plates connected by a sash bar embodying my invention. Fig. 2 represents a section on line 2—2 of Fig. 1. Fig. 3 represents a view similar to Fig. 2, showing different means for supporting the glass plates against inward displacement. Fig. 4 represents a sectional view of a modification. Fig. 5 represents a sectional view of another modification.

The same reference characters indicate the same parts in all the figures.

In the drawings,—12 represents a parting member adapted to be interposed between adjacent edges of two glass plates 13, said member being an elongated bar, the length of which is practically co-extensive with that of the edges of the plates between which it is interposed.

14, 14 represent clamping members adjustably secured to the parting member 12, and adapted to bear on the outer sides of the plates 13, means being employed for securing the clamping members 14 either at different angles relatively to each other, as shown in Figs. 1 and 2, or in practical alignment with each other, as shown in Fig. 3.

The preferred means for adjustably connecting the clamping members 14 with the parting member, comprise a head 16 formed on the outer edge of the parting member, said head having a rounded outer surface, segmental ears 17 formed on the clamping members 14, the inner sides of said ears conforming to and being movable

upon the rounded surface of the head 16, and a segmental clamping shoe 18 conforming to the outer surfaces of the ears 17, and adjustably secured to the parting member 12 by screws 19. The form of said parts is such that the clamping members 14 are adapted to stand at an angle, as shown in Figs. 1 and 2, the plates 13 being arranged at similar angles, or in alinement with each other, as shown in Fig. 3, the plates being also in alinement with each other. When the screws 19 are loosened, the clamping members 14 are freely adjustable to any relative positions required, the tightening of the screws causing the clamping shoe 18 to firmly hold the clamping members 14 in any position to which they may have been adjusted.

It will be seen that the outer clamping members 14 are adapted to prevent outward side displacement of the plates 13. The parting member 12 is adapted to prevent inward displacement of said plates as next described. The width of the parting member 12 is such that it projects between the adjacent edges of the plates 13, so that when the plates are angularly arranged as shown in Figs. 1 and 2, their inner corners bear against the sides of the parting member, said sides acting as inner clamping members to prevent inward displacement of the plates. When the plates 13 are arranged in alinement with each other, as shown in Fig. 3, I add to the parting member 12 a pair of inner clamping members 20 which are detachably secured to the parting member by screws 21, and are adapted to bear on the inner sides of the plates 13, the clamping members 20 being flanges on a channeled bar or strip having a neck portion 22 which bears on the inner edge of the parting member 12, and receives the attaching screws 21.

When the device is used as shown in Figs. 1 and 2, the inner clamping members 20 are removed, the sides of the parting member then acting as inner clamping members, as above stated.

The outer edges of the outer clamping members 14 are preferably offset inwardly, as shown at 23, to form narrow cavities 24 between the members 14 and the portions of the plates 13 over which they project, said cavities being adapted to hold putty or other suitable packing material adapted to exclude water and air. The lower ends of the mem-

bers of the sash bar may be mounted on any suitable support, the upper ends of said parts being suitably covered and secured.

The inner clamping members 20 may be offset at 25 to form putty-receiving cavities at the inner sides of the plates 13.

The parting member may be provided with inner clamping members 26 formed by the beveled edges of a bar or strip 27 detachably secured to the parting member by screws 28, as shown in Fig. 4, the said inner clamping members being adapted to bear on the inner sides of the plates 13 when said plates are arranged at right angles with each other.

It will be seen that the several parts of the sash bar above described, are adapted to be formed by cutting up rolled, drawn, or pressed bars of indeterminate length into sections of suitable length for the particular work required.

In Fig. 5 I show a modification in which the segmental ears 17 are arranged to bear on the inner side of a rounded head 30 formed on the outer edge of the parting member 12, said segmental ears being provided with slots 31 which receive attaching bolts 32 provided with nuts 33. The inner edge of the parting member 12 is provided with a clamping plate 34, the edges of which bear on the inner sides of the glass plates 13.

I claim:-

1. A sash bar comprising a parting member adapted to be interposed between adjacent edges of two assembled glass plates, and to support said plates against inward sidewise displacement, and clamping members adjustably secured to said parting member, and adapted to prevent outward sidewise displacement of said plates.

2. A sash bar comprising a parting member adapted to be interposed between adjacent edges of two assembled glass plates, and to support said plates against inward sidewise displacement, said member having a rounded head at its outer edge, clamping members adapted to bear on the outer sides of said plates, and having segmental ears movably seated on said head, and means for clamping said ears to the head in different positions.

3. A sash bar comprising a parting member adapted to be interposed between adjacent edges of two assembled glass plates, and to support said plates against inward sidewise displacement, said member having a

rounded head at its outer edge, clamping members adapted to bear on the outer sides of said plates, and having segmental ears movably seated on said head, and a segmental clamping shoe adjustably engaged with the parting member and adapted to adjustably secure the said ears and clamping members.

4. A sash bar comprising a parting member adapted to be interposed between adjacent edges of two assembled glass plates, and provided with inner clamping members adapted to prevent inward sidewise displacement of said plates, and outer clamping members adjustably secured to said parting member and adapted to bear on the outer sides of said plates.

5. A sash bar comprising a parting member adapted to be interposed between adjacent edges of two assembled glass plates, and provided with inner clamping members detachably secured to the parting member, and adapted to bear on the inner sides of said plates, and outer clamping members adjustably secured to said parting member and adapted to bear on the outer sides of said plates.

6. A sash bar comprising a parting member adapted to be interposed between adjacent edges of two assembled glass plates, and to support said plates against inward sidewise displacement, and clamping members adjustably secured to said parting member, and adapted to prevent outward sidewise displacement of said plates, said clamping members being offset at their outer edges to form putty-receiving cavities.

7. A sash bar comprising a parting member adapted to be interposed between adjacent edges of two assembled glass plates, and provided with inner clamping members detachably secured to the parting member, and adapted to bear on the inner sides of said plates, and outer clamping members adjustably secured to said parting member and adapted to bear on the outer sides of said plates, each of said clamping members being offset at its outer edge to form a putty-receiving cavity.

In testimony whereof I have affixed my signature, in presence of two witnesses.

THOMAS F. MCGANN.

Witnesses:

C. F. BROWN,
P. W. PEZZETTI.