No. 842,007. PATENTED JAN. 22, 1907.

R. PARKER.

PIPE CLAMP.

APPLICATION FILED NOV. 8, 1906.

2 SHEETS—SHEET 1.

Fig. 1,

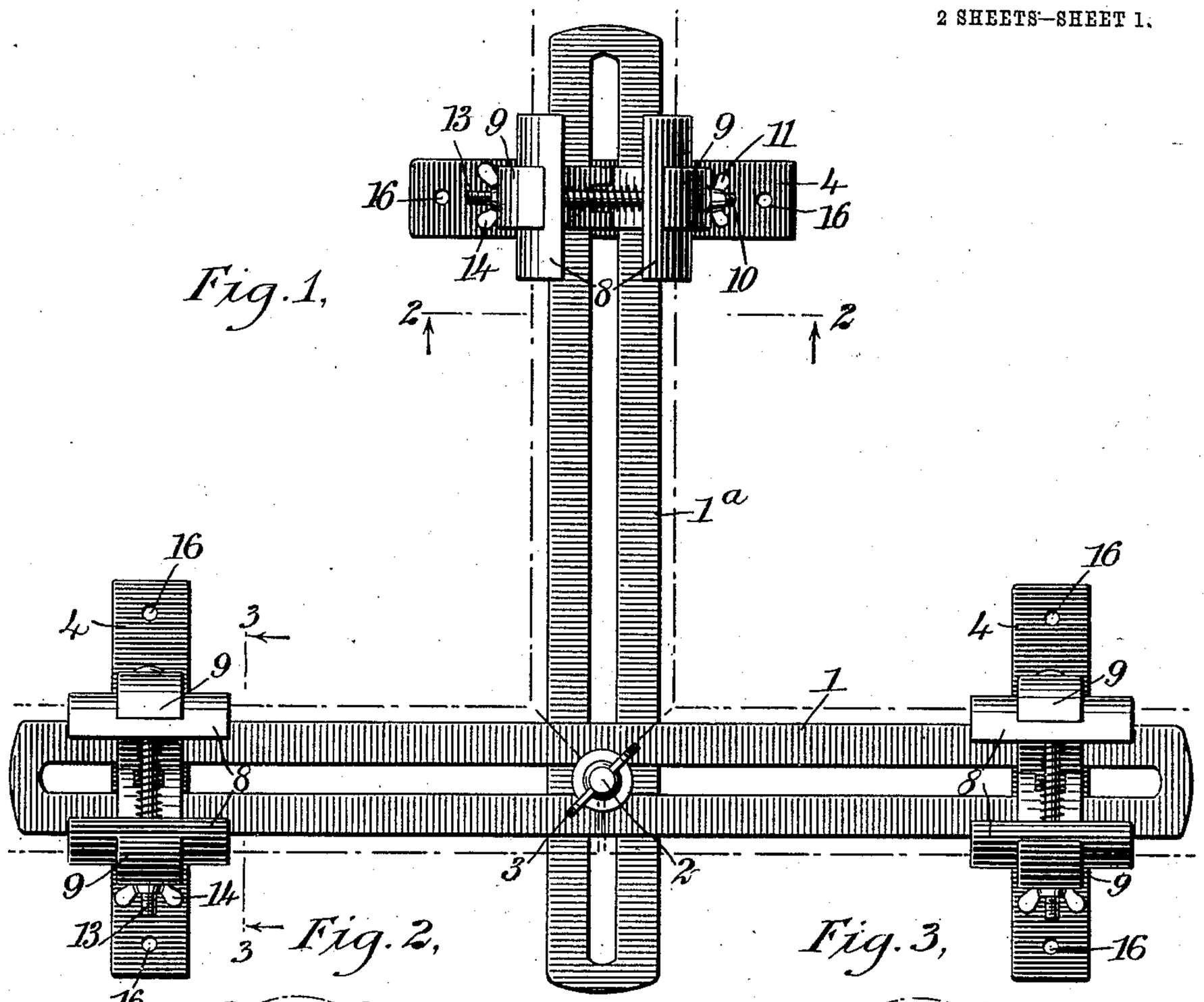


Fig. 2,

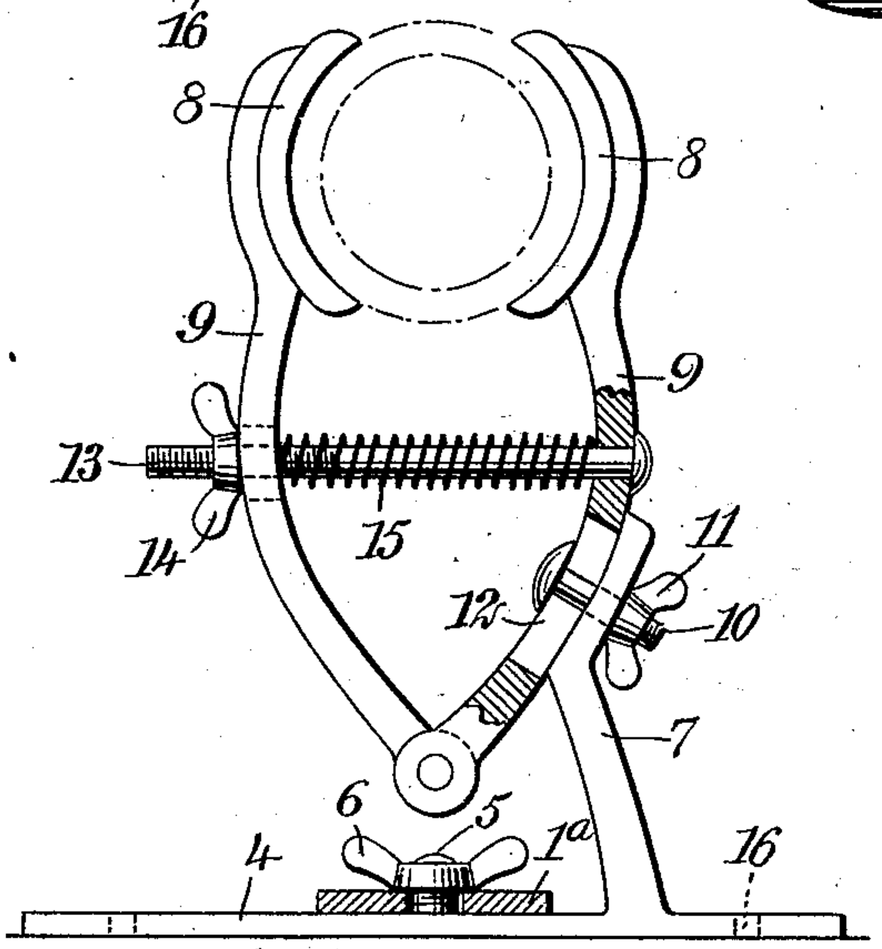
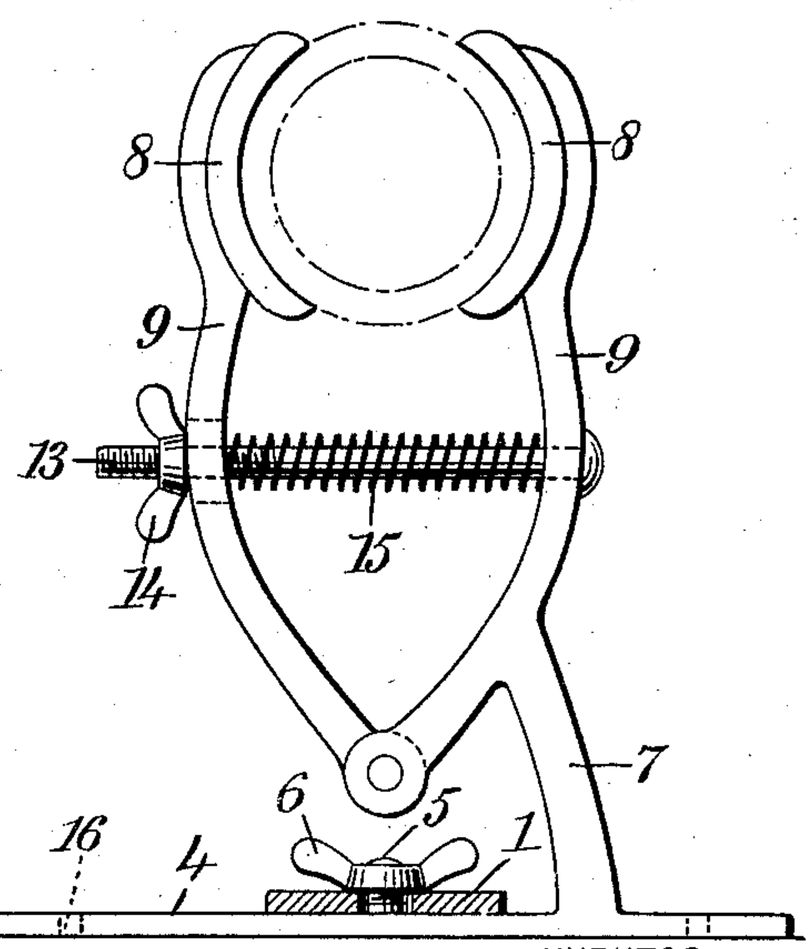


Fig. 3,



WITNESSES

Edward Thorpe.

INVENTOR

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2 SHEETS—SHEET 2.

Fig. 4.

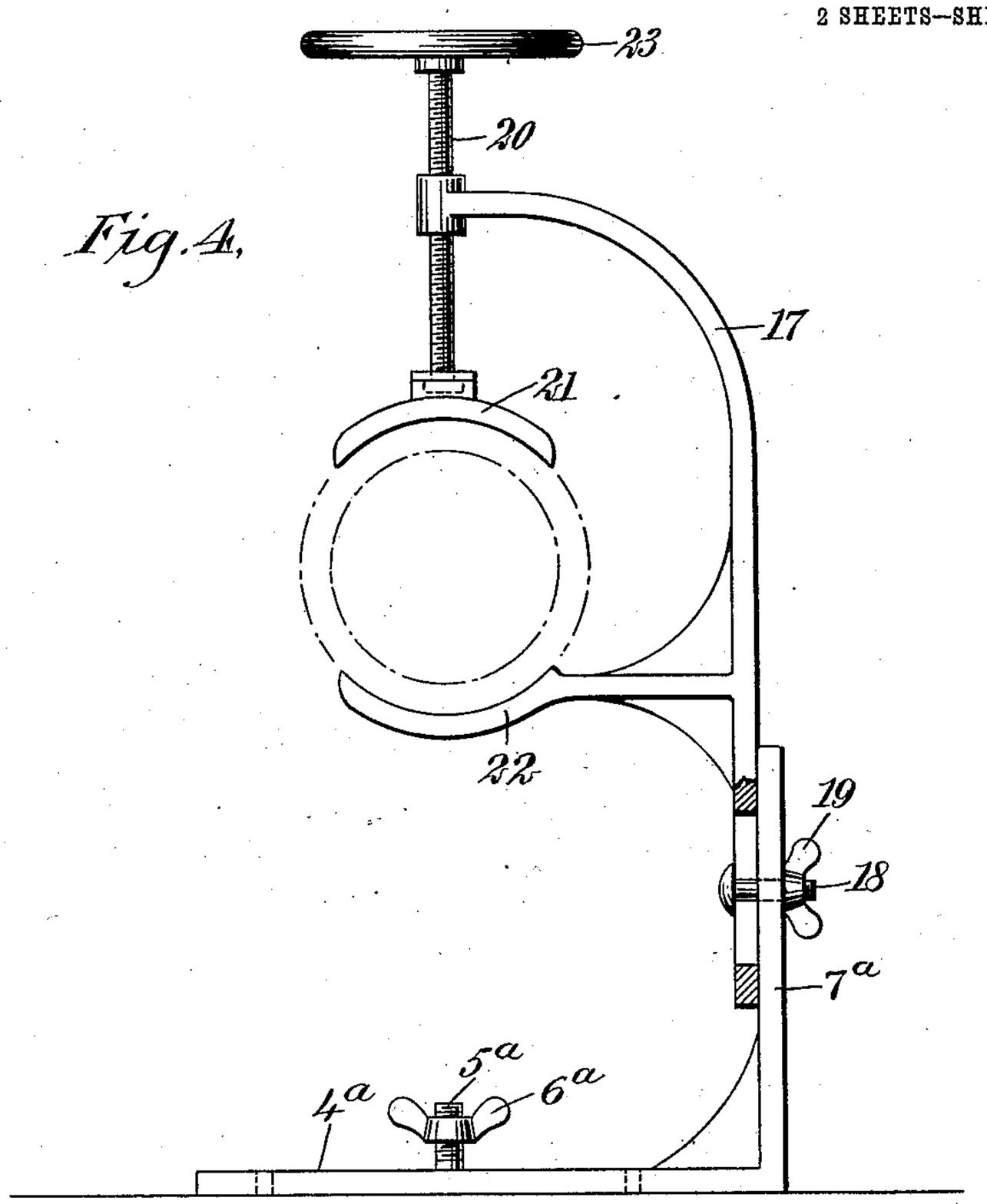
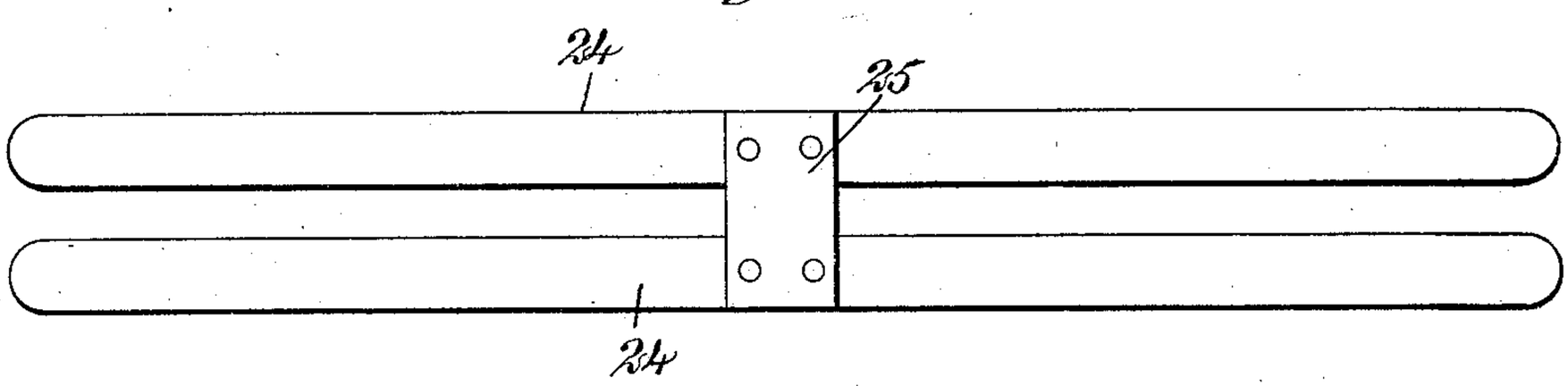


Fig. 5.



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UNITED STATES PATENT OFFICE.

RALPH PARKER, OF LAKEWOOD, NEW JERSEY.

PIPE-CLAMP.

No. 842,007. Specification of Letters Patent. Patented Jan. 22, 1907.

Application filed November 8, 1906. Serial No. 342,473.

To all whom it may concern:

Be it known that I, RALPH PARKER, a citizen of the United States, and a resident of Lakewood, in the county of Ocean and State of New Jersey, have invented a new and Improved Pipe-Clamp, of which the following is a full, clear, and exact description.

This invention is an improved pipe-clamp embodying in its construction a plurality of jaws which are universally adjustable, adapting them to support pipes of irregular forms, branch joints, and any kind of pipe-fitting. The nature of the construction is such that it may be folded to occupy a small compass, enabling the clamp to be conveniently carried from place to place, and can be manufactured at a comparatively small cost, which is a prime feature of the invention.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view of the preferred form of my invention when in extended relation. Fig. 2 is a side elevation, partly in section, of a clamping member which I employ in the construction, said section being taken substantially on the line 2 2 of Fig. 1 and viewed in the direction of the arrows. Fig. 3 is a sectional view corresponding to Fig. 2, showing a slightly-modified form, the section bieng taken on the line 3 3 of Fig. 1 and viewed in the direction of the arrows. Fig. 4 is a further modified form of clamping member, which in some cases would be preferable to the constructions of the clamping members of Figs. 2 and 3; and Fig. 5 is a plan of a modified form of strip on which the clamping members are assembled.

The invention comprises two slotted strips 1 and 1^a, slidably and pivotally connected together by a bolt 2, passing through the slots of each member, and having a thumb-nut 3 threaded thereon for clamping the strips in any desired position of adjustment. As shown in Fig. 1, the slot of each strip extends for almost its entire length, adapting the clamping members to be also adjustably connected through them. One of these clamping members, as that connected to the strip 1^a, is constructed with a base-plate 4, having a threaded stud 5 projecting from its upper face, passing through the slot of said strip and engaged in adjusted position thereon by a thumb-nut 6. At one side of the stud 5 a support 7 rises from the plate 4, which supports coacting pipe-clamping jaws 8 through the intermediary of pivoted curved arms 9. The upper end of the support 7 is shaped to conform to and form a bearing for one of said arms, to which it is adjustably connected by a bolt 10 and thumb-nut 11 threaded thereon. A slot 12 cut into this arm 9 admits of the arm being slid upon the support in adjusting the clamping-jaws in the plane in which they are contained. For drawing the clamping-jaws together a bolt 13 passes through the arms 9 and is engaged on its threaded end by a thumb-nut 14, the jaws acting to automatically separate when the nut 13 is unscrewed by reason of a spring 15, arranged on the bolt between them.

Near each end of the slotted strip 1 are attached clamping members of like construction to that shown in Fig. 2, except the support 7 and adjacent arm 9 are made as an integral part. Near each end of the base-plate 4 of each clamping member are provided screw-holes 16, adapting the clamp to be secured in fixed position should it be so desired.

From the construction described and as shown in Fig. 1 it is obvious that the members 1 and 1^a may be turned into alinement with each other and secured in this position by the thumb-nut 3, adapting the clamp to be conveniently carried from place to place.

In Fig. 4 I have shown a modified form of clamping member which under some circumstances might be preferred to the constructions of either of the clamping members shown in Figs. 2 and 3. This clamping member comprises a base-plate 4^a, stud 5^a, and thumb-nut 6^a, corresponding, respectively, to the parts 4, 5, and 6 just described, and a support 7^a, corresponding to the support 7, the support 7^a being preferably straight and engaged with the lower slotted end of an overhanging arm 17, this engagement, which is for the purpose of adjusting the angular position and elevation of the arm 17, being effected through a bolt 18 and thumb-nut 19. The arm 17 has threaded through the extremity of its upper end a screw 20, swivelly connected with a clamping-jaw 21, which in operation coacts with an opposed clamping-jaw 22, preferably

formed as an integral part of the arm 17. The screw 20 is operated by a hand-wheel 23 or other convenient device.

In Fig. 5 is shown an equivalent device to take the place of the strips 1 and 1ª in Fig. 1 for adjustably connecting the clamping members together, which consists of two members 24, rigidly connected together at substantially the center by a transverse plate 25.

It is evident from the construction as described and illustrated that the clamping members of the clamp may be made to assume any desired angular position with respect to each other, adapting them to support pipes of irregular forms, branch joints, and any kind of pipe-fitting.

Although I have described the invention in detail, I regard the precise embodiment as not material provided the essential characteristics are employed as pointed out in the annexed claims.

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

1. A clamp comprising two slotted strips, means passing through the slots of the strips adjustably connecting them together, and a clamp member adjustably connected to each strip through their respective slots.

2. A clamp comprising clamping-jaws pivotally connected together through the intermediary of curved arms, a support having its upper end shaped to conform to and form a bearing for one of said arms, and means for adjustably connecting this arm and the support together.

3. A clamp comprising two slotted devices pivotally and slidably connected together, clamping members adjustably connected to one of said devices through its slot, and a clamping member likewise connected to the other device.

4. A clamp comprising jaws pivotally connected together through the intermediary of curved arms, a base-plate, a support rising from the base-plate having its upper end shaped to conform to the outer face of one of said arms, and means slidably connecting this arm and the support together.

5. A clamp comprising a plurality of clamping members, each comprising a base-plate having a support rising therefrom and clamping-jaws pivotally connected together through the intermediary of curved arms carried by said support, slotted strips, means passing through the slots of said strips adjustably connecting them together, and means passing through the slots of said strips adjustably connecting the base-plate of each clamping member thereto.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

RALPH PARKER.

Witnesses:
WM. THOS. MASON,
CHAS. W. HARRIS.