

May 31, 1927.

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STEP FOR POLES

Filed Oct. 9, 1924

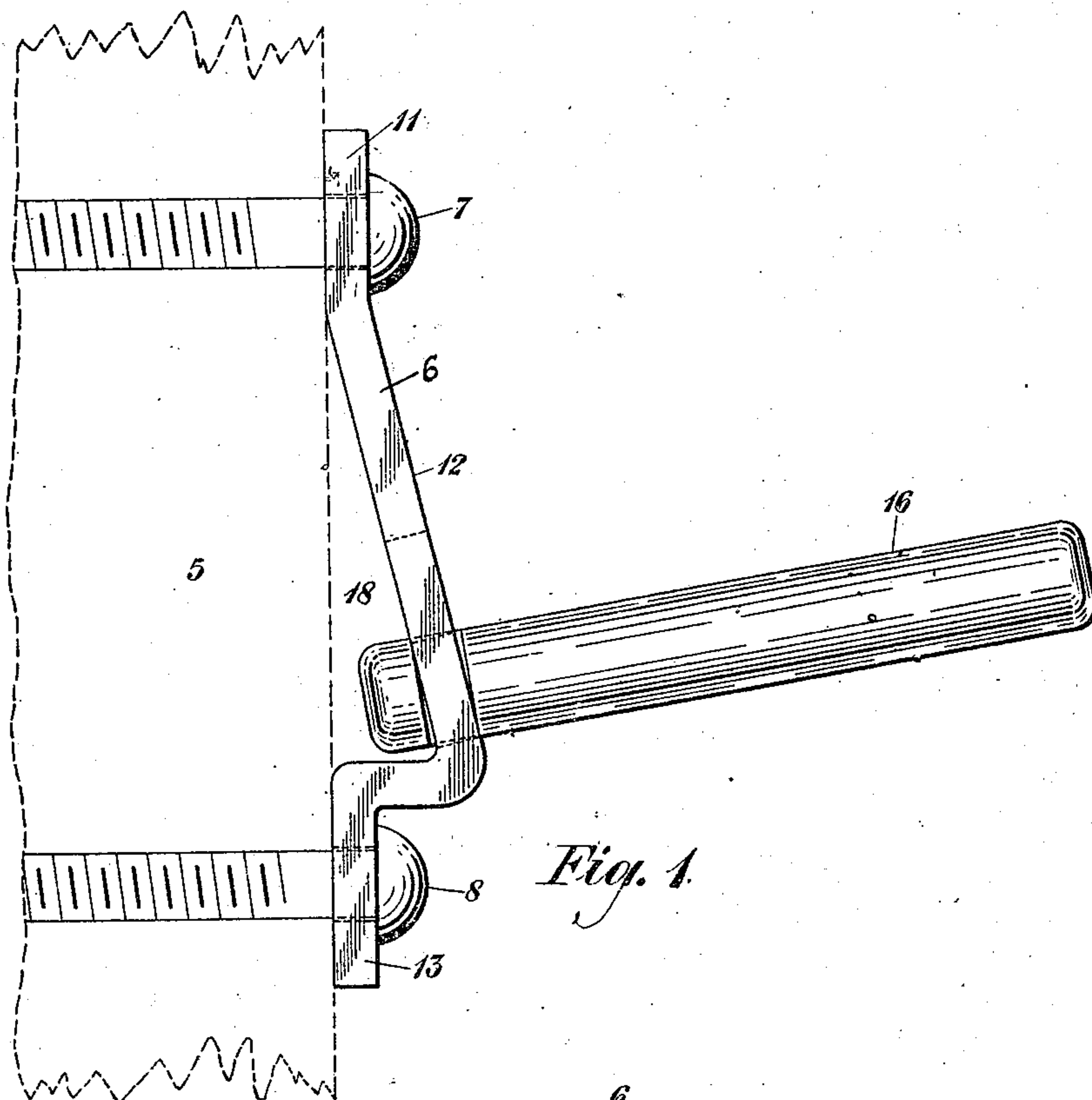


Fig. 1.

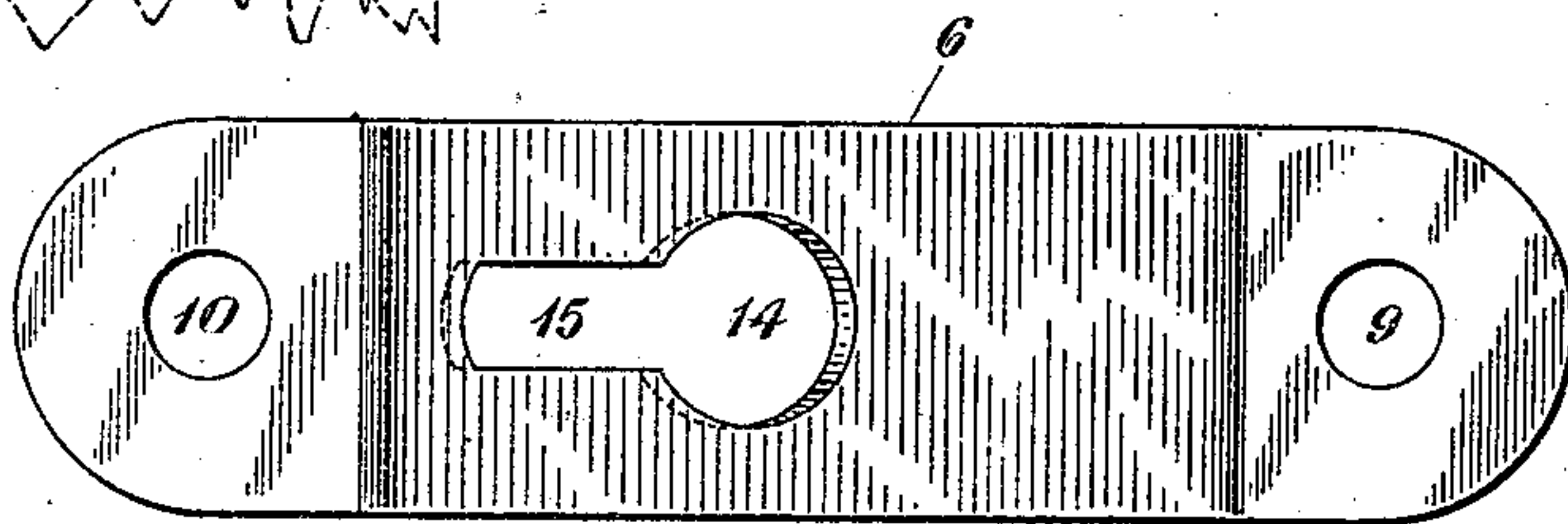


Fig. 2.

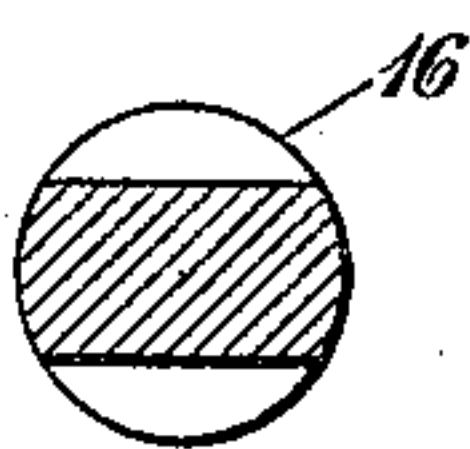


Fig. 4.

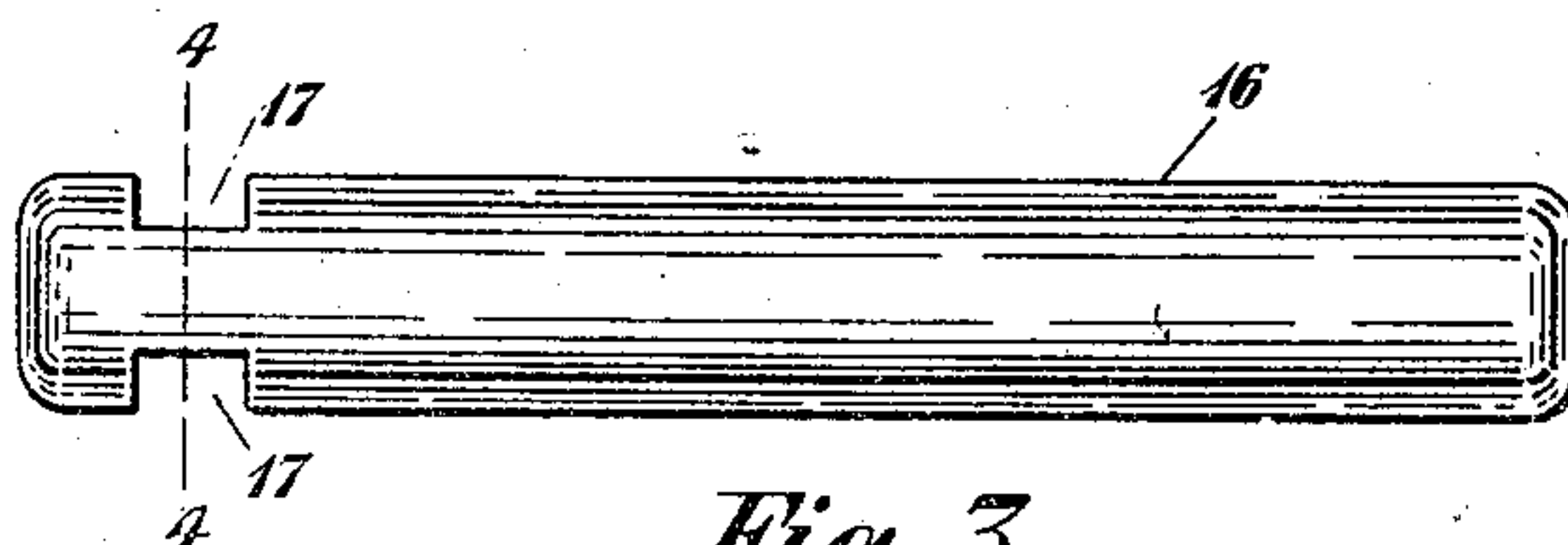


Fig. 3.

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UNITED STATES PATENT OFFICE.

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STEP FOR POLES.

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This invention relates to steps for telephone or other poles, and more particularly to steps of the detachable type.

One of the objects of the invention is the provision of a pole-step that may be readily inserted in and removed from a base-plate which may be permanently secured to a pole, and to form the base-plate so that it cannot be used by unauthorized persons for climbing the pole when the pole-step is removed.

This and further objects of the invention will be apparent from the following description, when considered in connection with the accompanying drawing, in which one embodiment thereof is illustrated.

In the drawing, Figure 1 illustrates a pole having a base-plate secured thereto, with the detachable step in position; Fig. 2 is a front view of the base-plate lying in a horizontal position; Fig. 3 is a view of the step which is adapted to be attachably positioned in the base-plate, and Fig. 4 is a sectional view of the step taken on the line 4—4 of Fig. 3.

Referring to the drawing, the numeral 5 indicates a pole which is illustrated for the purpose of showing the application of the improved arrangement. The base-plate 6 may be permanently attached to the pole 5 by means of bolts or screws 7 and 8, which pass through transverse holes 9 and 10 respectively, provided at either end of the base-plate 6. The upper vertical portion 11 of the base-plate 6 rests flatly against the surface of the pole 5 for a sufficient distance to permit the seating of the flat inner surface of the head of the bolt or screw 7. The plate 6 is bent slightly at this point so that the portion 12 extends outwardly therefrom in a sloping direction to a lateral shoulder, which projects horizontally from the lower vertical portion 13. The portion 13 is formed similar to the portion 11 of the plate 6, and likewise rests flatly against the pole 5 for a sufficient distance to permit the seating of the flat surface of the head of the bolt or screw 8.

The portion 12 of the plate is provided with a transverse opening 14, which is substantially circular, and a longitudinal slot 15 extends downwardly therefrom. The opening and slot are provided for the reception of the step 16, which is adapted to be detachably associated therewith. The

step 16 is cylindrical in form, and is provided with an H-shaped portion at one end, which is formed by the cutaway portions 17.

In the application of the step 16 to the base-plate 6, the end of the step having the cutaway portions is inserted in the circular opening 14, said end extending into a chamber 18, which is provided between the pole 5 and the declined portion 12 of the plate 6. When the step is inserted a sufficient distance, it is turned so that its cutaway portions 17 are in alinement with the edges of the slot 15, after which the step is pressed downwardly in said slot until one of the rounded surface portions formed between the cutaway portions 17 is seated in the rounded portion at the bottom of the slot 15. The width of the slot 15 is slightly greater than the thickness of the portion formed between the cutaway portions 17 of the step 16 so that the step is readily permitted to enter and register securely within the slot, in such manner as not to become displaced when subjected to the weight of a person climbing the pole. As the portion 12 of the base-plate is declined, the step 16 when positioned in the slot 15 will be slightly tilted upwards or at an inclined position to prevent the lineman's foot from slipping off the end of the step, and will afford perfect security to the foot in climbing or while standing on the step.

It will be seen that the step is of small dimension and a number of these steps may be readily carried about and used upon different poles. In attaching the steps for the purpose of climbing poles, it is only necessary to attach the step to the base-plate as previously described, and in descending the operator may withdraw the steps from the permanently positioned base-plates. After the steps have been removed from the base-plate there will be no means afforded for the climbing of the poles by unauthorized persons, as the foot would slip off the base-plate in any attempt to rest it thereon.

It will be obvious from the foregoing description that, by means of this invention, the carrying of ladders or the use of climbing irons by linemen for the purpose of reaching the lowest permanent step of a pole, which is usually some considerable distance from the ground, will be eliminated.

What is claimed is:

1. The combination of a base-plate adapt-

ed to be permanently attached to a pole and having a declined offset central portion provided with a key-hole slot, and a cylindrical step having detachable inter-locking means
5 near one end to co-operate with said key-hole slot so that it may be affixed to said plate in an inclined position with respect to the pole, said interlocking means being of a diameter not exceeding that of said
10 step.

2. The combination of a base-plate adapted to be permanently attached to a pole and having a declined offset central portion provided with a key-hole slot, and a cylindrical

step adapted to be detachably affixed to said plate in an inclined position for the purpose of climbing said pole and removed therefrom upon descending said pole, said step having transverse slots at right angles to its axis and on each side thereof, near one end of the step said slots being positioned to form a neck portion which registers with the key-hole slot. 15 20

In testimony whereof, I have signed my name to this specification this 7th day of October 1924. 25

LEWIN B. FISH.