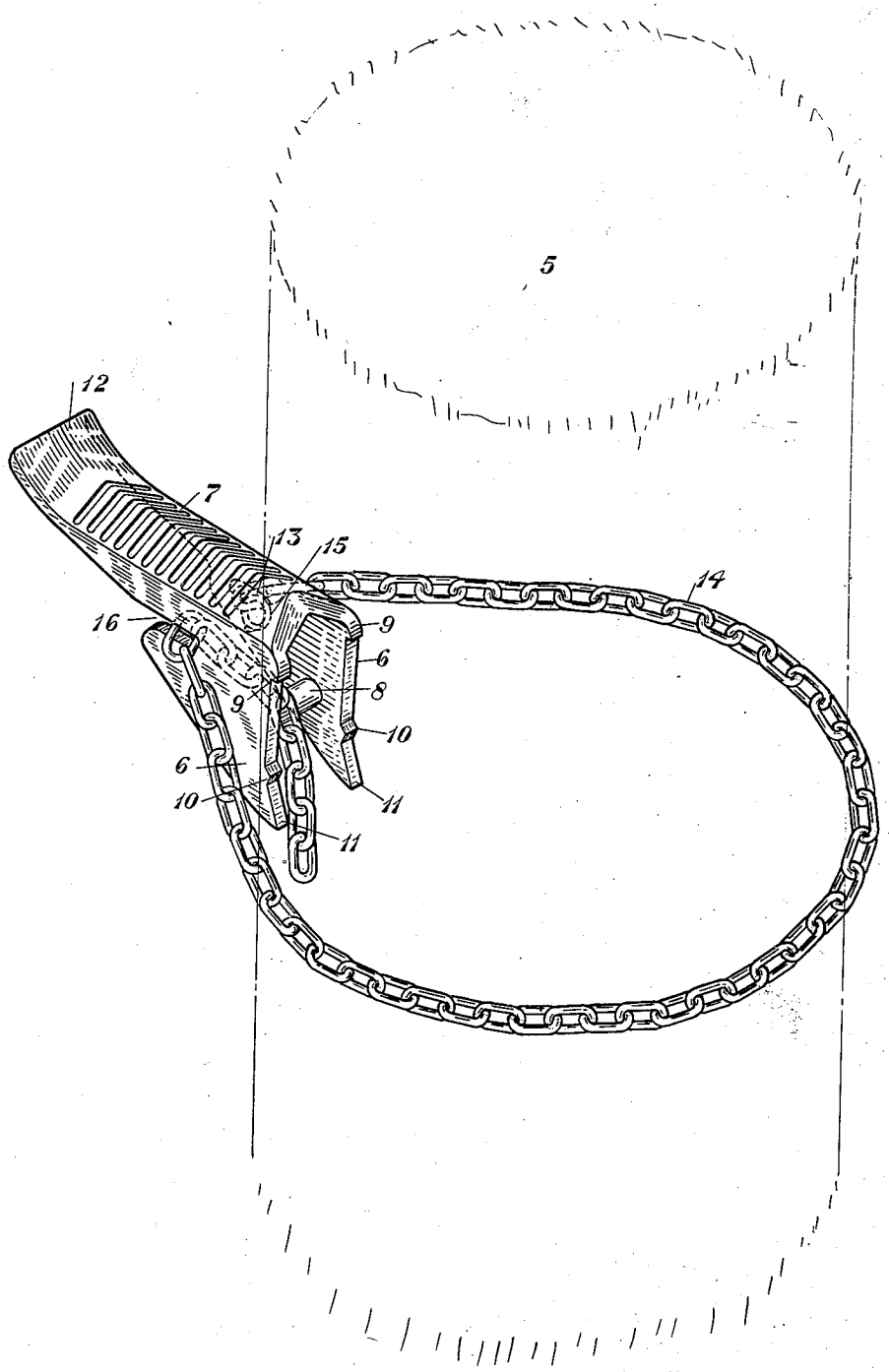
Nov. 2, 1937. L. S. DAY 2,097,562

PORTABLE POLE STEP

Filed April 24, 1936



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Patented Nov. 2, 1937 2,097,562

UNITED STATES PATENT OFFICE

2,097,562

PORTABLE POLE STEP

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Application April 24, 1936, Serial No. 76,289

1 Claim. (Cl. 228—46)

This invention relates to steps adapted to be applied to telephone or other poles and, more particularly, to steps of the portable type.

It is an object of this invention to provide a portable pole step which is comparatively inexpensive to manufacture and which may be readily attached to or removed from a pole.

This and further objects will be apparent from the following description when considered in connection with the accompanying drawing, in the figure of which one embodiment of the invention is illustrated. This figure is a perspective view of the improved device shown in attached position to a pole.

Referring to the drawing, 5 designates a pole showing the improved portable step applied thereto. This step may be made from any suitable material such, for instance, as a malleable iron casting. The step includes a channel portion formed between two downwardly extending side flanges 6, 6, which are shown as of substantially triangular shape, and an elongated top surface 7 which extends outwardly from the channel portion. The flanges may be secured together by means of a pin 8 which serves as a reinforcement therefor. Shoulders 9, 9 are provided on the tops of the vertical edges of the flanges 6, 6 and projections 10, 10 are provided at the bottom of said vertical edges. The vertical edges are also provided with angular portions 11, 11 which are formed on each lower corner of the flanges 6, 6 and lie beneath the projections 10, 10. The shoulders 9, projections 10 and portions 11, engage and penetrate the pole surface when the step is in position thereon. The top surface 7 of the step lies in a substantially horizontal position when the step is attached to a pole. This top surface may have a corrugated portion which forms a tread, and this tread is sufficiently wide to provide a space for the foot. The outer extremity of the top surface has a slightly upturned portion 12 which tends to prevent the foot from slipping off the tread surface.

A slot 13 is cut through the wall of one of the flanges 6 for the reception of an end of a pole-encircling band of any suitable character. In the present instance this band is shown in the form of a chain 14 which has a terminating link passing through the slot 13 in one of the side flanges 6. A lap ring 15 is inserted through the portion of this link which enters the chamber formed between the side flanges and top surface of the step, and locks the link in position. This connection between one of the terminating links and the lap ring just described, may be permanent, that is, the step may be supplied by the manufacturer in this condition.

The step is applied by holding the top of the channel end against the pole 5 so that the step lies in a tilted position and looping the chain around said pole. The free end of the chain is inserted over the pin 8, as shown in the drawing and drawn taut. A slot 16 is provided in the flange 6 opposite the parallel flange to which the fixed end is attached, and when the chain is in this taut position, the link of the chain lying closest to slot 16 is inserted therein. When the chain is attached, as described, the selected link lies flatly upon the slot 16 with a portion thereof extending into the chamber between the flanges 6. This link lies at right angles to the next succeeding link positioned in the chamber between the flanges, and the chain is thus held in place about the pole. The step is rotated downwardly from the tilted position previously described to a horizontal position. This action will serve to place added strain upon the chain and cause it to be more tightly drawn about the pole. This will result in securely clamping the channel or pole-engaging portion of the step in position upon the pole.

What is claimed is:

A step adapted to be detachably connected to a pole or the like including a tread surface and a pole-engaging channel member having slotted side portions, and a chain comprising associated links disposed at right angles to each other, said chain having one end permanently fixed to one side portion and looped about the pole and having its free end held in adjustable engagement with the other side portion by the insertion of a link therethrough and held in position by the next succeeding link.

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