

No. 885,043.

PATENTED APR. 21, 1908.

J. T. HAMBAY.
FOUNDATION.

APPLICATION FILED APR. 12, 1907.

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UNITED STATES PATENT OFFICE.

JAMES T. HAMBAY, OF NEW YORK, N. Y.

FOUNDATION.

No. 885,043.

Specification of Letters Patent.

Patented April 21, 1908.

Application filed April 12, 1907. Serial No. 367,853.

To all whom it may concern:

Be it known that I, JAMES T. HAMBAY, a citizen of the United States, residing at New York city, in the county of New York and State of New York, have invented a certain new and useful Improvement in Foundations, of which the following is a specification.

This invention relates to an improvement in foundations and although it may be used in many different ways it is especially applicable to foundations for supporting railway signal apparatus such as interlocking pipe lines and bell cranks, as will be readily understood.

In the following I have described in connection with the accompanying drawings several forms of apparatus illustrating my invention and modifications thereof.

In the drawings Figure 1 is an elevation of one form of apparatus embodying my invention and illustrating the use thereof in connection with an interlocking pipe line for railway signals. Fig. 2 is a plan view of the form of anchor shown in Fig. 1, the rod being shown in section. Fig. 3 is a cross-sectional view of the supporting beam and flanged head as shown in Fig. 1. Fig. 4 is a bottom view of said flanged head. Fig. 5 is a plan view of a modified form of anchor in which two supporting rods are shown instead of one as in Fig. 2. Fig. 6 is a plan view of a further modified form of anchor, the rods being shown in section, and the anchor and rods being shown in elevation in Fig. 7.

Similar numerals indicate similar parts throughout the several views.

In the drawings 1 represents the ground or other support to which the foundation is to be anchored.

2, 2, represent suitable rods, preferably of wrought iron, or pipe, adapted to extend downwardly into the ground 1 and to be connected at their lower ends by means of a suitable cross-piece 3 which may be of wood, iron, or other material as is desirable, the cross-piece 3 being clamped between suitable bolts at the lower ends of rods 2, 2, as shown in Fig. 1. At the upper ends of rods 2, 2, are flanged heads 4, 4, preferably screw-threaded thereon. The flanged heads 4, as shown in Fig. 4, may be provided with laterally extending lugs 5, 5, for supporting the upper cross-piece 6 and with apertures 7, 7, for receiving the bolts 8, 8, adapted to clamp the cross-piece 6 to the flanged head 4. The cross-piece 6 may be made of wood, iron, or

any suitable material. Supported on the cross-piece 6 may be a framework 9 supporting rollers 10, 10, on suitable bearings in the usual manner. Idlers 11, 11, may be provided in order to permit easier movement of the interlocking pipes 12, 12. A suitable guard 13 may also be provided if desired. Anchors 14 are adapted to be secured to rods 2, preferably adjustably secured thereto, and may be made of wrought iron, steel, wood, concrete, or other suitable material.

In cases where the foundation comprises but two rods 2, 2, it is preferable to make the anchor in the form shown in Fig. 2 in which it is illustrated as comprising two plates 15 and 16 shaped to receive the rod 2 onto which it may be clamped by suitable bolts 17. The outer ends on each side of the anchor are preferably turned away from each other, as shown, so as to afford great resisting power to any horizontal movement. The anchor may be made of a single piece if desired and as shown in Fig. 5 it is obvious that each anchor may further be adapted to receive two rods instead of one as shown in Fig. 2, the general form of construction being similar to that shown in Fig. 2. As shown in Fig. 6 the anchor may be composed of a plurality of plates connected together by any suitable means as by a bolt 18, clamping plates 19, 19, together. Each plate 19 in conjunction with plate 20, may clamp a rod 2, 2, by means of suitable bolts 21 as shown. The anchor is preferably in the form of an elongated plate as shown in Figs. 1 and 7, thus affording great resistance to any horizontal thrust, the turning of the plates away from each other at their outer ends acting as one means to assist in preventing any horizontal movement of the foundation as well as to assist in preventing any vertical movement thereof. The anchors may be made adjustable by releasing the bolts clamping the same to the rods 2 and moving the anchors up or down as desired. This adjustable feature is of great utility, particularly in connection with railway signal apparatus where the apparatus must be kept on the same level irrespective of the undulations of the ground or other support and where, in case metal is used, welding on the spot is impracticable. By this feature of my invention, if the ground falls off so that the foundation must reach to a considerable extent out of the ground, the anchors may be adjusted on the lower part of the supporting members so that they will be

beneath the ground, or if it should happen that one leg or rod 2 of the foundation should be on high ground while the other is on low ground, the anchors could be adjusted so that each will be in the proper place for the greatest resistance. It is not necessary in practicing my invention to make the anchor adjustable as it might be welded, bolted, strapped or otherwise firmly fixed to the supporting member or rod or even might form an integral enlargement thereof as is clear to any one skilled in the art.

It is obvious that the form of the apparatus may be varied in many ways without departing from the spirit of the invention and I do not restrict myself to any of the specific forms illustrated and described.

What I claim and desire to secure by Letters Patent is:—

1. In a foundation, a supporting member and an anchor adapted to be adjustably secured thereto, said anchor comprising vertically extending plate provided with means for preventing horizontal displacement thereof.

2. In a foundation, supporting members substantially parallel with each other, means connecting said members together and anchors adapted to be adjustably secured to said supporting members.

3. In a foundation, supporting members, means connecting said members together and

anchors adapted to be adjustably secured to said supporting members said anchors comprising vertically extending plates provided with means for preventing horizontal displacement thereof.

4. In a foundation, supporting members arranged substantially parallel with each other, means connecting the top and bottom portions of said members to hold them in fixed relation to each other and anchors adapted to be adjustably secured to said supporting members intermediate said connecting means.

5. In a foundation, supporting members substantially parallel with each other, means connecting the bottom portions of said members to hold them in fixed relation to each other, flanged heads adapted to be secured adjacent to the tops of said supporting members, means connecting the top portions of said members resting on said flanged heads and anchors adapted to be adjustably secured to said supporting members.

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

JAMES T. HAMBAY.

Witnesses:

ROBERT W. ASHLEY,
SEABURY C. MASTICK.