March 10, 1925. 1,529,613

W. R. BURKE

PIPE CARRIER

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FIG. 1.

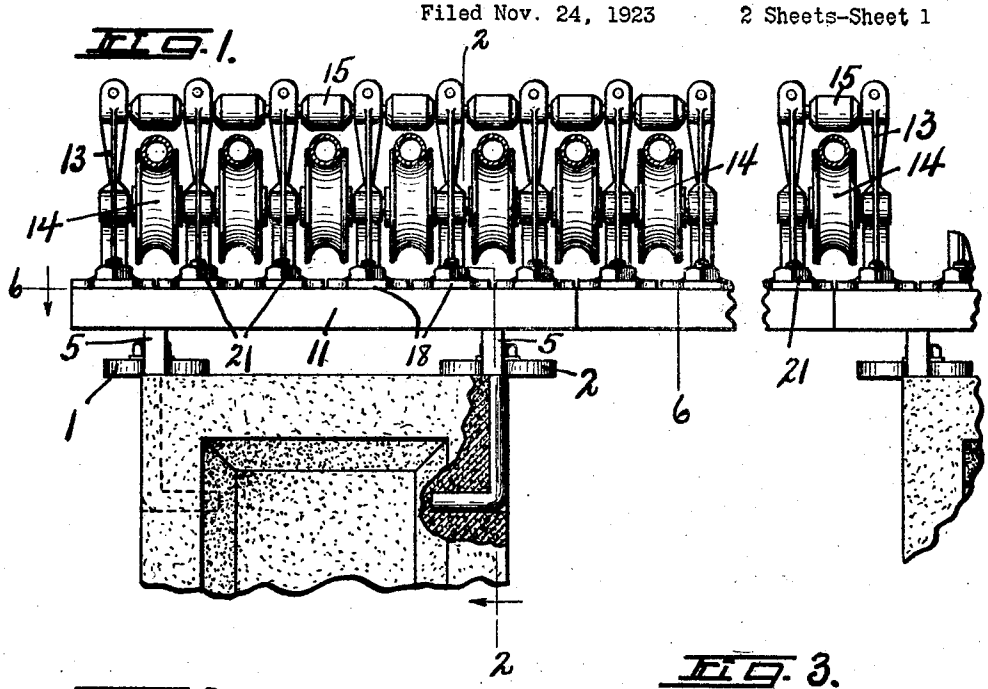


FIG. 2.

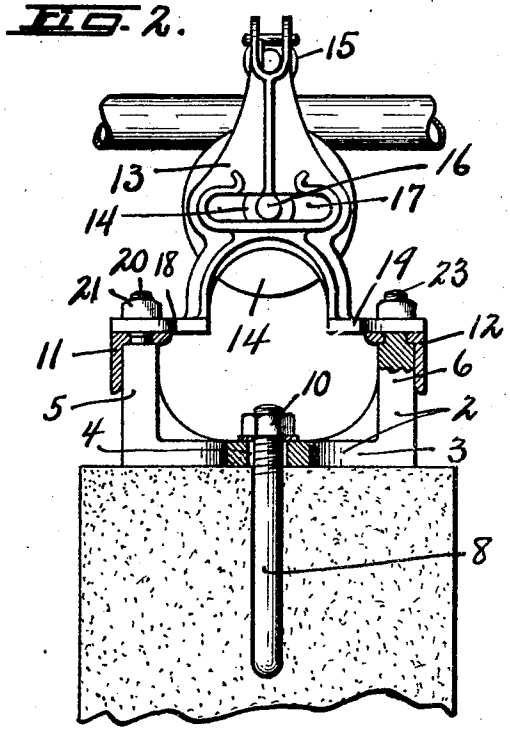


FIG. 3.

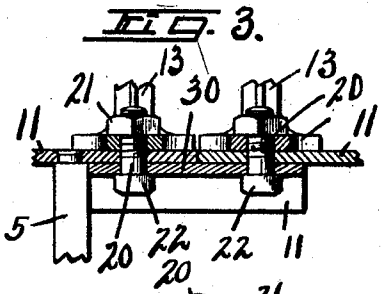


FIG. 4.

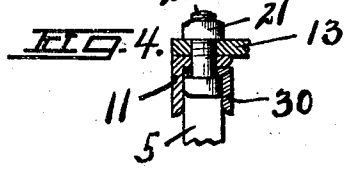
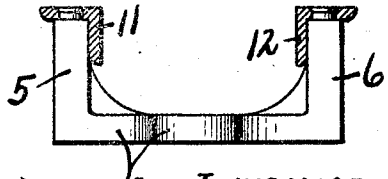


FIG. 5.



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FIG. 6.

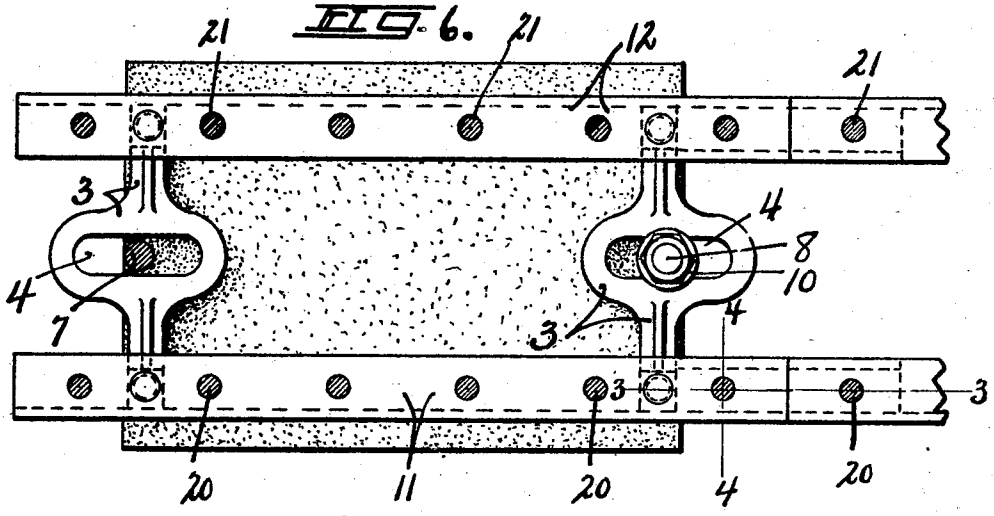


FIG. 7.

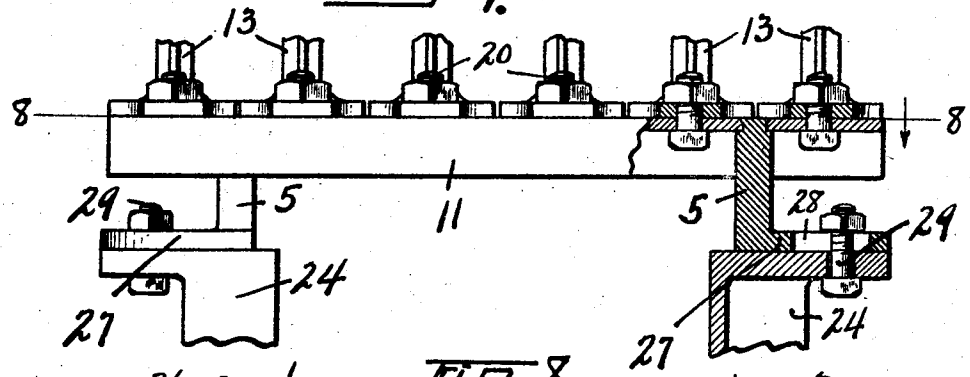
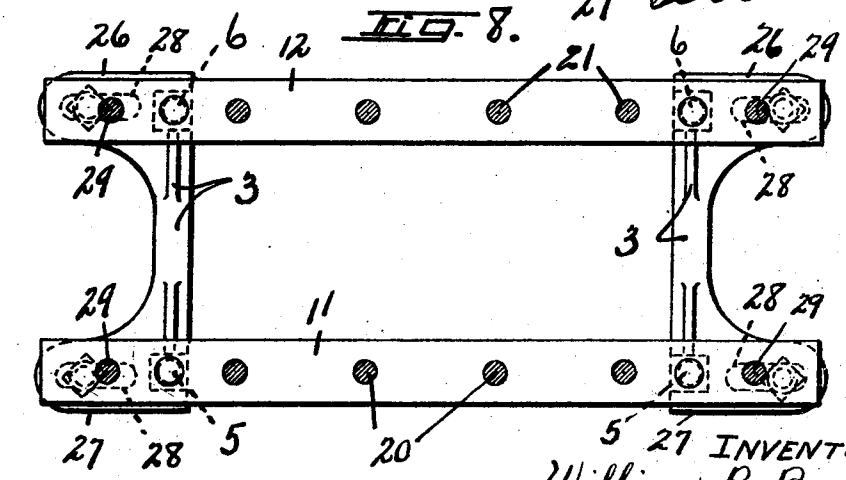


FIG. 8.



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Patented Mar. 10, 1925. 1,529,613

UNITED STATES PATENT OFFICE.

WILLIAM R. BURKE, OF UTICA, NEW YORK, ASSIGNOR TO SIGNAL ACCESSORIES CORPORATION, OF UTICA, NEW YORK, A CORPORATION OF NEW YORK.

PIPE CARRIER.

Application filed November 24, 1923. Serial No. 676,771.

To all whom it may concern:

Be it known that I, WILLIAM R. BURKE, a citizen of the United States of America, of Utica, in the county of Oneida, in the State of New York, have invented new and useful Improvements in Pipe Carriers, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention relates to certain improvements in pipe carriers.

The main object of the invention is the production of a simple, efficient pipe carrier of rigid and substantial construction and capable of such adjustment as is desirable in connection with such devices.

Other objects and advantages relate to the details of construction and form of the device some of which pertain to the accomplishment of the main objects set forth above, all as will more fully appear from the following description taken in connection with the accompanying drawings in which:—

Figure 1 is an elevation of a pipe carrier of my invention.

Figure 2 is a section on line 2—2, Figure 1, showing the hook bolts in full.

Figure 3 is a section on line 3—3, Figure 6.

Figure 4 is a section on line 4—4, Figure 6.

Figure 5 is an elevation of one of the bases showing the cross bars or side rails riveted thereto.

Figure 7 is an elevation partially in section, of a modified form of structure.

Figure 8 is a section on line 8—8, Figure 7.

A unit of the pipe carrier illustrated in the drawings, comprises two bases —1— and —2— of similar form and shape and each comprising a substantially flat body portion —3— formed with an elongated opening or slot —4— and provided with upstanding posts or pillars —5— and —6— at the opposite sides of the body portion, each post or pillar provided at its upper end with a reduced portion or stud which may, as illustrated, be of cylindrical form.

These two bases are adapted to be mounted on and supported by any suitable foundation, block or pier, and are arranged in spaced relation preferably near the opposite sides of the pier and may be secured to the foundation or pier in any suitable manner as by hook bolts —7— and —8— having their hook portions extending into lateral recesses in the pier and their upper ends projecting through the respective slots —4— in the bases —1— and —2— for the reception of nuts —9— and —10— for rigidly securing the bases to the foundation or pier.

Obviously, other constructions of a mechanically equivalent nature may be utilized for securing the slotted bases to the pier with the upstanding posts or pillars —5— and —6— of one base in alignment with the upstanding posts or pillars —5— and —6— respectively of the other base.

The posts —5— of the bases —1— and —2— carry a cross bar or side-rail —11— in the form of an angle bar and preferably the vertically disposed wall of the angle bar is arranged upon the exterior of the pillars or posts, altho it may be upon the interior as illustrated in Figure 5.

The horizontal wall of the angle bar —11— is formed with a pair of spaced openings or perforations adapted to receive the reduced cylindrical portions upon the upper ends of the pillars —5— upon the bases —1— and —2— and the upper ends of the reduced cylindrical portions or studs are then offset or riveted into engagement with the angle bar to form a permanent and rigid connection between the angle bar and the posts —5— of the bases —1— and —2—. The angle bars are rigidly confined between the offset or riveted portions of the head studs and the flanges or shoulders at the base of the studs. In like manner the spaced pillars or posts —6— of the bases —1— and —2— have their reduced upper ends or studs projected through spaced openings in a second side rail or angle bar —12— preferably of similar form and shape to the angle bar —11— and extending parallel with the angle bar —11— in assembled condition, and the upper ends of the studs upon the posts —6— are riveted or offset into engagement with the angle bar —12— to form a permanent connection between the post —6— and the bar —12—.

It will thus be seen that the bases —1— and —2— are rigidly and permanently connected to the side bars —11— and —12— and support them in parallel fixed relation for the reception of the pipe carriers —13—

which are arranged in the usual manner in spaced relation for the reception between each two pipe carriers —13— of pipe-supporting and guiding rollers —14— and —15—, the rollers —14— being provided in the usual manner with trunnions —16— journaled in transverse slots —17— and capable of lateral movement therein.

These pipe carriers are formed with legs terminating in opposite feet —18— and —19—, the feet —18— being secured to the side rail —11— by means of bolts —20— passed upwardly through openings in the rail —11— and are provided with nuts —21— at their upper ends for rigidly connecting the feet —18— to the rail —11—.

The openings in the rail —11— are so positioned that the heads —22— of the bolts —20— contact with the depending vertical wall of the angle bar —11— and the bolts are thereby locked from rotation while the nut —21— is being threaded upon the bolt or removed therefrom.

In like manner, the feet —19— are secured by bolts —23— to the side rail —12— and the depending vertical flange of the rail —12— whether exteriorly or interiorly arranged with respect to the posts —6—, locks the bolts from rotation.

It will be obvious that the elongated slots —4— in the bases —1— and —2— permit ready adjustment of the bases, the side rails carried thereby and the pipe carriers, to the desired position.

In Figures 7 and 8, a slightly modified form of structure is illustrated, particularly for use in connection with iron piers —24—.

The distinction in structure from that heretofore described, resides in the fact that the bases —1— and —2— instead of being provided with a central elongated slot —4—, are provided with horizontally extending flanges —26— and —27—, in this illustration, extending in substantial alinement with the respective side rails —11— and —12— and these flanges are formed with elongated slots —28— as illustrated in Figure 7 and by dotted lines in Figure 8, and the bolts —29— are passed through the slots and through portions of the iron piers —24— so as to secure the pipe carrier to the iron piers, the slots in the flanges —26— and —27— permitting any desired adjustment.

In Figures 3 and 4, there is illustrated, a preferred form of structure for uniting or joining two sections of a side rail —11— or a side rail —12— to extend the pipe carrier between two piers as illustrated in Figure 1.

In this construction, the ends of the two rails —11— or the two rails —12— to be connected are placed in abutting relation and an angle bar section —30— is inserted within the angle bar —11— or the angle bar —12— preferably in reverse arrangement as shown. Two or more bolts —21— are extended through the joining section —30—, the angle bar —11— or the angle bar —12— and the base of the adjacent pipe carrier —13—.

In this manner, a rigid and firm construction is produced and two or more units of pipe carriers may be united in an easy and rapid manner.

Although I have shown and described a specific construction and preferred details of form and arrangement of the same, I do not desire to restrict myself to the exact details of the structure or its form or arrangement as various changes may be made within the scope of the appended claims.

I claim:

1. A pipe carrier comprising a pair of spaced bases each having a slot elongated in a direction substantially perpendicular to the direction of length of pipes adapted to be carried, posts arising from opposite sides of the bases, and a pair of substantially parallel side rails each resting on a shoulder formed on and each permanently riveted to a post on each base to form a unitary structure.

2. A pipe carrier comprising a pair of spaced bases having slots elongated in a direction substantially perpendicular to the direction of length of pipes adapted to be carried, posts arising from the bases and a pair of substantially parallel side rails each in the form of an angle iron and each carried by and connected to a post on each base, pipe carriers mounted on said side rails and bolts extending thru the side rails and the carriers with the heads of the bolts in substantial contact with one side of the angle bars.

3. A pipe carrier comprising a pair of spaced bases having slots elongated in a direction substantially perpendicular to the direction of length of pipes adapted to be carried, posts arising from the bases and a pair of substantially parallel side-rails each in the form of an angle iron and each carried by and connected to a post on each base, pipe carriers mounted on said side rails and bolts extending thru the side rails and the carriers with the heads of the bolts in substantial contact with one side of the angle bars, and means for connecting two side rails having their ends abutting comprising two or more bolts, and an angle bar section secured by said bolts to each of the abutting side rail sections.

In witness whereof I have hereunto set my hand this 19th day of November 1923.

WILLIAM R. BURKE.

Witnesses:

WILLIAM F. BOSSERT,

JOHN C. EDWARDS.