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J. T. PEARSON

1,966,132

GROUNDING DEVICE

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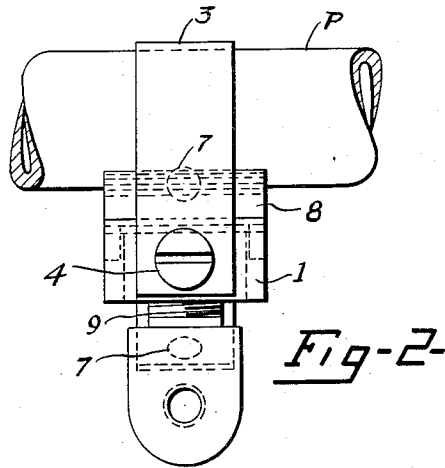
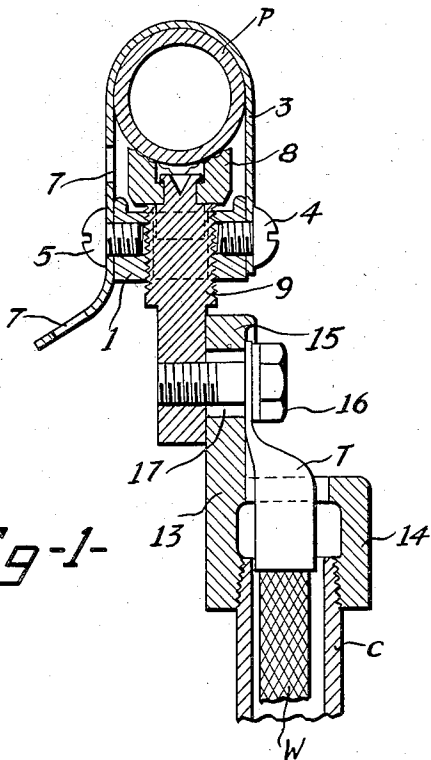
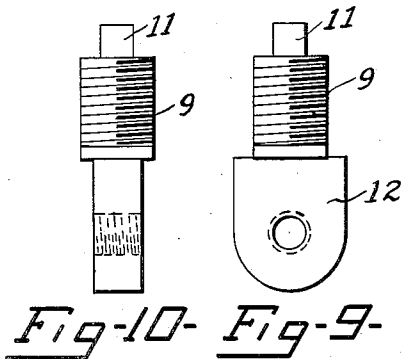
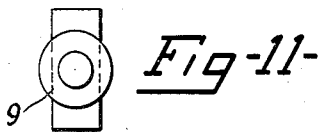
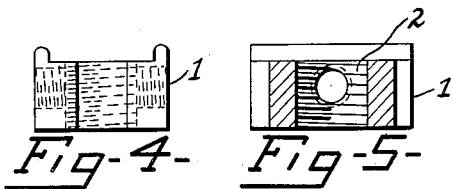
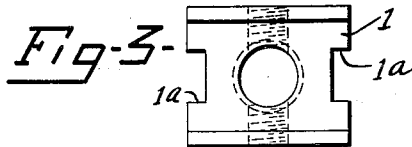
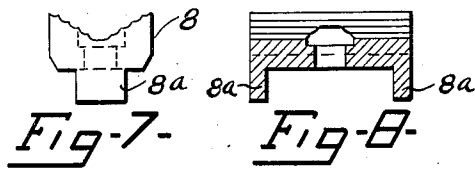


Fig-6-



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UNITED STATES PATENT OFFICE

1,966,132

GROUNDING DEVICE

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6 Claims. (Cl. 247—1)

This invention relates to grounding devices or connectors for grounding electric conduit systems to a grounded conductor, as a water pipe and the like, which connector is particularly simple and economical in construction, quickly applied and adjusted to suit all conditions as to the angles the conduits happen to come with respect to the water pipe, or other conductor.

The invention consists in the novel features and in the combinations and constructions hereinafter set forth and claimed.

In describing this invention, reference is had to the accompanying drawing in which like characters designate corresponding parts in all the views.

Figure 1 is a longitudinal, sectional view of this connector, the grounded conductor or water pipe, and the conduit, and ground wire of the conduit system being also shown.

Figure 2 is a plan view of the section attachable to the water pipe, the water pipe being also shown.

Figure 3 is a face view of the body part of the connector attachable to the water pipe.

Figure 4 is an end elevation looking to the right in Figure 3.

Figure 5 is a sectional view taken centrally of Figure 3.

Figures 6 and 7 are respectively, a face view, and an edge view of the movable jaw.

Figure 8 is a longitudinal, sectional view of the movable jaw.

Figures 9, 10 and 11 are respectively, side elevation, edge view, and an end view of the operating member for the movable jaw.

This grounding device or connector comprises a body part, or a section having a fixed member, a movable jaw for coacting with the fixed member, and means connecting the two parts or sections comprising two swivel joints arranged at an angle to each other. More specifically, it includes an operating member for the jaw movable about an axis relatively to the body part, the second body part or section having means for connection to the conduit to be mounted, this being connected to the operating member of the movable jaw by a joint, as a pivotal joint which permits the second body section to be adjusted into various radial angles so that the second body section is capable of adjustment about the axis of the operating member, and also about the axis of the joint connecting it and the operating member, the latter being arranged at a right angle to the axis of the operating member.

1 designates the first body part, which is a

metal block having a passage 2 therethrough. The fixed member is preferably a strap 3 anchored at its ends as by screws 4, 5 to the sides of the block, the end portions of the strap 3 lapping the ends of the block. One end of the loop is provided with a single hole for receiving the screw 4, and the other end with a plurality of holes 7 spaced apart lengthwise of the strap in order that the size of the loop may be adjusted approximately to the size of the pipe P to which the body 1 is to be attached.

8 is a movable jaw arranged between the branches of the loop 3 and movable toward and from the intermediate part of the loop against the pipe P. The jaw 8 has lugs 8^a at its ends slidably fitting grooves 1^a at the ends of the body 1.

9 is the operating member, this being mounted in the passage 2 and preferably threading therein and having a stud 11 at its inner end which is riveted or otherwise secured to the jaw 8. The outer end of the operating member is flattened in the form of a lug 12. When the loop 3 has been adjusted to the approximate size of the pipe P, the jaw 8 is tightened against the pipe by turning the operating member 9.

13 designates a second body section having means as an internally threaded collar 14 for receiving the conduit C of the system.

W designates the wire to be grounded, this extending through the conduit C and having a wire terminal T at its end.

The body section 13 has a lug or plate portion 15 lapping the lug 12 of the operating member 9 and securable thereto in any angular or radial position by a screw 16 extending through an opening 17 in the lug or plate portion 15 of the body section 13 and threading into the lug 12. The head of the screw 16 also clamps or binds the wire terminal T to the body section 13.

After the body or block 1 has been clamped to the pipe P and the body section 13 attached to the conduit C, the two body sections can be clamped together by means of the screw 16, and if additional turning of the operating member is required in order to bring the lugs 12 and 15 into meeting relation, the operating member can be turned farther by a wrench.

The opening 17 is preferably a slot for permitting a lengthwise adjustment of the body 13, this slot facilitating the adjustment of the fitting to the particular situation or relative location of the pipe P and conduit C.

What I claim is:

1. A grounding device comprising a body part, a fixed member carried by the body part for co-

acting with a conductor, said fixed member comprising a looped strap having its ends anchored to the body part, a movable jaw for coacting with the conductor, and operating means connecting the movable jaw and the body part, and a second body part for connection to a conduit, pivoted to said operating means. 80

2. A grounding device comprising a body part, a fixed member carried by the body part for coacting with a conductor, said fixed member comprising a looped strap having its ends anchored to the body part, a movable jaw for coacting with the conductor, an operating member connecting the movable jaw and the body part, the operating member being movable about an axis relatively to said body part, and a second body part pivoted to the operating member on an axis extending transversely of the axis of the operating member. 85

3. A grounding device comprising a body part, a fixed member carried by the body part for coacting with a conductor, said fixed member comprising a looped strap having its ends anchored to the body part, a movable jaw for coacting with the conductor, an operating member connecting the movable jaw and the body part, the operating member threading into the body part, and a second body part having means for connection to a conduit, the second body part being pivoted to the operating member on an axis extending transversely of the axis of the operating member. 90

4. A grounding device comprising a body consisting of a block formed with a threaded passage therethrough, a fixed member carried by the body part for coacting with a conductor, means for adjustably securing said fixed member to the body to accommodate different sizes of conductors, a movable jaw which in conjunction with the fixed member forms a clamp for the conductor, an operating member connecting the movable jaw and the body part, said operating member threading through the passage in the block and operable to clamp the movable jaw against the conductor, a second body part having means for connection to a conduit, the second body part being pivoted to the operating member on an axis extending transversely of the axis of the operating member. 95

5. A grounding device for connecting a conduit to a conductor including a block, a member carried by the block and coacting with the conductor, said block being formed with a threaded passage therethrough extending perpendicular to the axis of the conductor, a movable jaw which, in conjunction with the fixed member, forms a clamp for the conductor, an operating member for said movable jaw threading through the passage of the block and connected to said jaw, a body portion having means for connection to the conduit and being pivoted to said operating member. 100

6. A grounding device for connecting a conduit to a grounded conductor including a block formed with a threaded passage therethrough, a member carried by the block and coacting with the conductor, a movable jaw which, in conjunction with said member carried by the block, forms a clamp for the conductor, an operating member for said movable jaw threading through the passage of the block, a body portion having means for connection to the conduit and being pivoted to the operating member at the end thereof opposite the movable jaw, the clamp member carried by the block consisting of a strap adjustably secured at its ends to the block and forming a loop, and the movable jaw being operable between the side portions of the loop. 105

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