C. H. ARMSTRONG.

SAW GUIDE FOR GAS PIPES.

APPLICATION FILED APR. 13, 1914.

1,109,952. Patented Sept. 8, 1914.

Fig. 1.

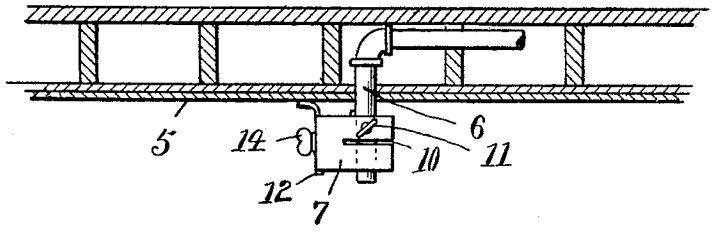


Fig. 2.

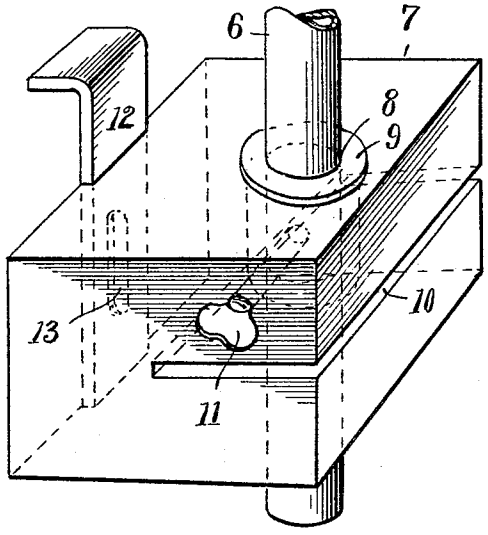
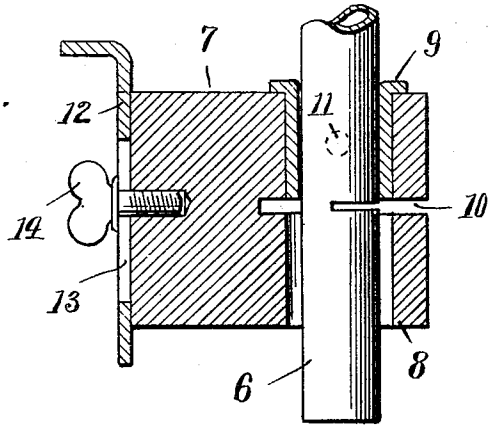


Fig. 3.



Witnesses

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SAW-GUIDE FOR GAS-PIPES.

1,109,952. Specification of Letters Patent. **Patented Sept. 8, 1914.**

Application filed April 13, 1914. Serial No. 831,450.

To all whom it may concern:

Be it known that I, CHARLES H. ARMSTRONG, citizen of the United States, and resident of Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Saw-Guides for Gas-Pipes, of which the following is a specification.

This invention relates to new and useful improvements in saw guides such as are adapted to be used for attachment to gas pipes and to support and guide a saw while cutting off the same.

It is very common in the construction of buildings for the workmen to leave the ends of gas pipes project from the walls farther than necessary and therefore have to be cut off to a proper uniform length and in many cases rethreaded. This cutting is done with a saw and it is the purpose of my invention to provide a saw guide which may be attached to the ends of such pipes and thus made to serve to support and guide the saw in its cutting operation.

It is a further object of the invention to provide a guide of the kind specified which may be adapted for attachment to various sizes of pipes and further to provide means for adjusting the guide for cutting the pipe at various distances from the ceiling or wall out of which the pipe projects, and finally to produce a guide of the kind specified which will be simple, inexpensive and practical to manufacture and which can be put upon the market at a comparatively small selling price.

With the above objects in view I have devised the simple and novel construction shown upon the accompanying drawings forming a part of this specification, upon which similar characters of reference will be found to designate like or corresponding parts throughout the several figures and of which—

Figure 1 shows a vertical cross section through the floor timbers and ceiling of a building and showing a gas pipe extended down from the said ceiling and further illustrates one of my improved saw guides attached to said pipe. Fig. 2 is a perspective view of said saw guide which is also shown as applied to a piece of gas pipe and Fig. 3 is a central vertical cross sectional view through the said guide and pipe as shown in Fig. 2.

Referring in detail to the characters of reference marked upon the drawings 5 represents the ceiling of the building before referred to and 6 the projected end of a gas pipe extended down from the ceiling and to which the saw guide is connected. As before stated my invention can be employed to equal advantage where the gas pipe is extended from the side walls of a building, or in fact may be used as a guide on pipes or rods of any sort.

The saw guide proper consists of a block 7 provided with a hole 8 therethrough and a bushing 9. The said bushing is detachable and may be substituted by a smaller size if desired and where the size of the pipe is different from that shown, or in instances where the guide is to be used upon extra large pipe the bushing may be omitted. A cross slot 10 is formed in the front face of the block and obviously is arranged at a right angle to the said face and likewise to the hole 8 before mentioned that extends through the said block. This slot serves as the runway for the saw and intersects the hole and is of a depth sufficient to permit the saw to run through the pipe and allow it to be entirely cut off. A screw 11 is seated in the front end portion of the block and when tightened extends through a hole in the side of the bushing and is seated against the pipe thus serving to hold the saw guide to the pipe and also secure the bushing in place.

Upon the rear side of the block I form an adjustable stop 12 which is preferably made of sheet metal and has its upper end portion turned out to form a flat bearing surface which in practice is seated against the wall or ceiling from which the pipe to be cut projects. This stop is provided with an elongated slot 13 through which a set screw 14 passes said screw being seated in the rear of the block and when clamped serves to hold the stop in the position to which it may have previously been adjusted. By this arrangement it will be seen that the stop may be uniformly set so as to cut a number of pipes of the same length, thus leaving them to project a given distance for the attachment of the lighting fixture. In practice this stop would be adjusted to the position required to give the proper length of pipe extension and then the guide would be slipped over the end of the pipe to be cut, and thus set up against the ceiling whereupon the screw 11 is tightened in a manner to secure the said block in position. After

the device is secured in position all is ready for the sawing off of the pipe which obviously is accomplished by placing the cutting edge of the saw in the runway 10 and then operating the same upon the pipe.

Having thus described my invention what I claim and desire to secure by Letters Patent is:—

1. In a saw guide of the class described, the combination of a block having a round hole therethrough for the reception of a pipe, and a slot in the block forming a runway for a saw and intersecting the hole for the pipe and a set screw in the block for securing the same to the pipe.

2. In a saw guide of the class described the combination of a block having a hole therethrough for the reception of a pipe, a slot in the block forming a runway for a saw and intersecting the hole for the pipe, and a removable bushing for the said pipe.

3. In a saw guide of the class described, the combination of a block having a hole therethrough for the reception of a pipe, a slot in the block forming a runway for a saw and intersecting the hole for the pipe, means for securing the said block to the pipe, and adjustable means attached to the block for setting the same at a given distance from a wall or ceiling.

4. In a saw guide of the class described, the combination of a block having a hole therethrough for the reception of a pipe, a slot in the block forming a runway for a saw and intersecting the hole for the pipe, means for securing the said block to the pipe, a removable bushing seated in the hole for the pipe, and an adjustable stop secured to the said block.

Signed at Bridgeport, in the county of Fairfield and State of Connecticut, this 9th day of April, A. D., 1914.

CHARLES H. ARMSTRONG.

Witnesses:

C. M. NEWMAN,

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."