No. 748,237. PATENTED DEC. 29, 1903.

W. VANDERMAN.

PIPE BENDING FORM.

APPLICATION FILED JUNE 17, 1897.

NO MODEL.

Fig. 1.

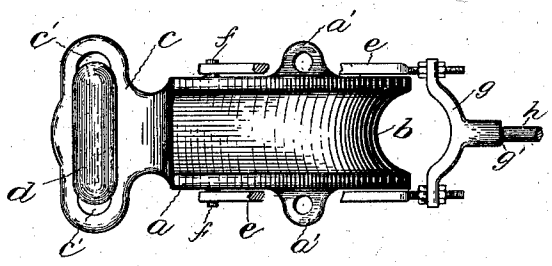


Fig. 2.

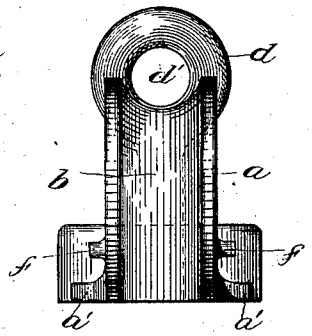


Fig. 3.

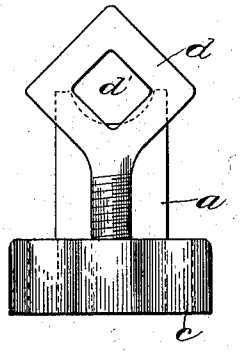
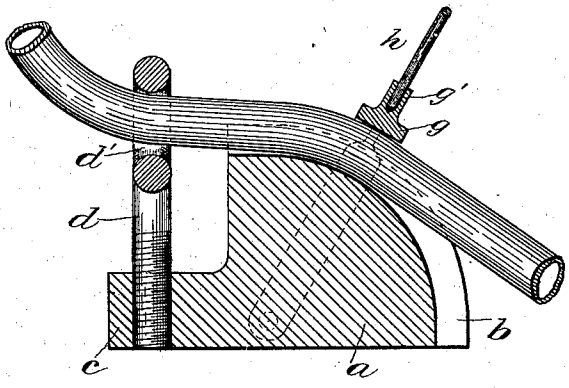


Fig. 4.



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No. 748,237. Patented December 29, 1903.

UNITED STATES PATENT OFFICE.

WILLIAM VANDERMAN, OF WILLIMANTIC, CONNECTICUT.

PIPE-BENDING FORM.

SPECIFICATION forming part of Letters Patent No. 748,237, dated December 29, 1903.

Application filed June 17, 1897. Serial No. 641,128. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM VANDERMAN, a citizen of the United States, and a resident of Willimantic, in the county of Windham and State of Connecticut, have invented certain new and useful Improvements in Pipe-Bending Forms, of which the following is a full, clear, and exact description, whereby any one skilled in the art can make and use the same.

The object of my invention is to provide a device for bending pipes that may be readily secured to a bench or like part and in which pipe of varying sizes may be readily formed to the required shape, the device being of a size and construction to be readily carried by a workman as a part of the tools used by him. A form of device by the use of which these objects may be attained is illustrated in the accompanying drawings, in which—

Figure 1 is a top view of the device with parts of the forming-lever broken away. Fig. 2 is an end view of the same with the forming-lever removed. Fig. 3 is a detail view showing a modified form of the device. Fig. 4 is a view in central lengthwise section through the device.

In the accompanying drawings the letter *a* denotes a support constructed from any desired material, preferably iron, cast to shape and having lugs *a'*, by means of which the support may be secured to any desired object, the lugs being provided with holes for the reception of screw-bolts or the like. The outer edge of this support is curved, preferably, in the arc of a circle for a portion at least of its length, and a groove *b*, serving as a form, is located in the curved portion. A base *c* extends from the rear end of the support, and to this base in rear of the form is secured an anchor *d*, having a socket *d'*. This anchor may be formed integral with the base and support, if desired; but in the preferred form of the invention the anchor is adjustably secured to the base by means of interengaging screw-threaded parts, this accommodating the device for use with different sizes of pipe and providing means for varying the distance between the upper part of the socket *d'* and the lower edge of the form *b* to equal at all times the diameter of the pipe being formed. Bolt-holes *c'* may be formed in this base as an additional means of securing the device in position.

A device constructed as above described is applicable for use in straightening a length of bent pipe, for making an offset in a length of pipe, or for bending it to any desired curve, the device being easily and quickly affixed to any object or detached therefrom.

In order to facilitate the forming of a length of pipe, a forming-lever is pivoted to the support *a*, preferably at the center of a circle of which the form *b* is an arc. This forming-lever consists of arms *e*, pivoted at one end to lugs *f*, projecting from the support *a*. A former *g* is secured to the upper ends of these arms overlying the form *b* in the support, the former being preferably curved to correspond with the form. A socket *g'* is located in the former, in which may be inserted a handle *h*.

The arms *e* and former *g* may be constructed of a single piece, if desired, with or without means of adjustment and yet come within the scope of the invention; but in the preferred form a means of adjustment of the former to accommodate different sizes of pipe is preferred. Neither do I desire to limit myself to the precise means of adjustment of the former herein described, and any means of adjustment will come within the scope of the invention.

I claim as my invention—

1. In a pipe-bending form, a support provided with a form, an anchor in rear of the form and provided with means for vertical adjustment and having an opening adapted to receive a pipe, and means for shaping a pipe on the form.

2. In a pipe-bending form, a support provided with a form and a base extending from the rear bottom part of the form, an anchor secured to the base in rear of the form and having an opening adjustably arranged in line with the form and adapted to receive a pipe, and means for shaping a pipe on the form.

3. In a pipe-bending form, a support provided with a form and a base extending from the rear of the form, an anchor mounted in the base and adjustable depthwise thereof

and having an opening arranged in line with the form and adapted to receive a pipe, and means for shaping a pipe on the form.

4. In a pipe-bending form, a support provided with a form, arms pivoted on opposite sides of the support, a forming-lever adjustably secured to said arms, and an anchor secured in rear of the form and having an opening arranged in line with the form and adapted to receive a pipe.

5. In a pipe-bending form, a support provided with a form, arms pivoted on opposite sides of the support, a forming-lever adjustably secured to said arms and having a socket arranged to removably receive a handle, and an anchor adjustably arranged with respect to the form and adapted to hold a pipe.

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