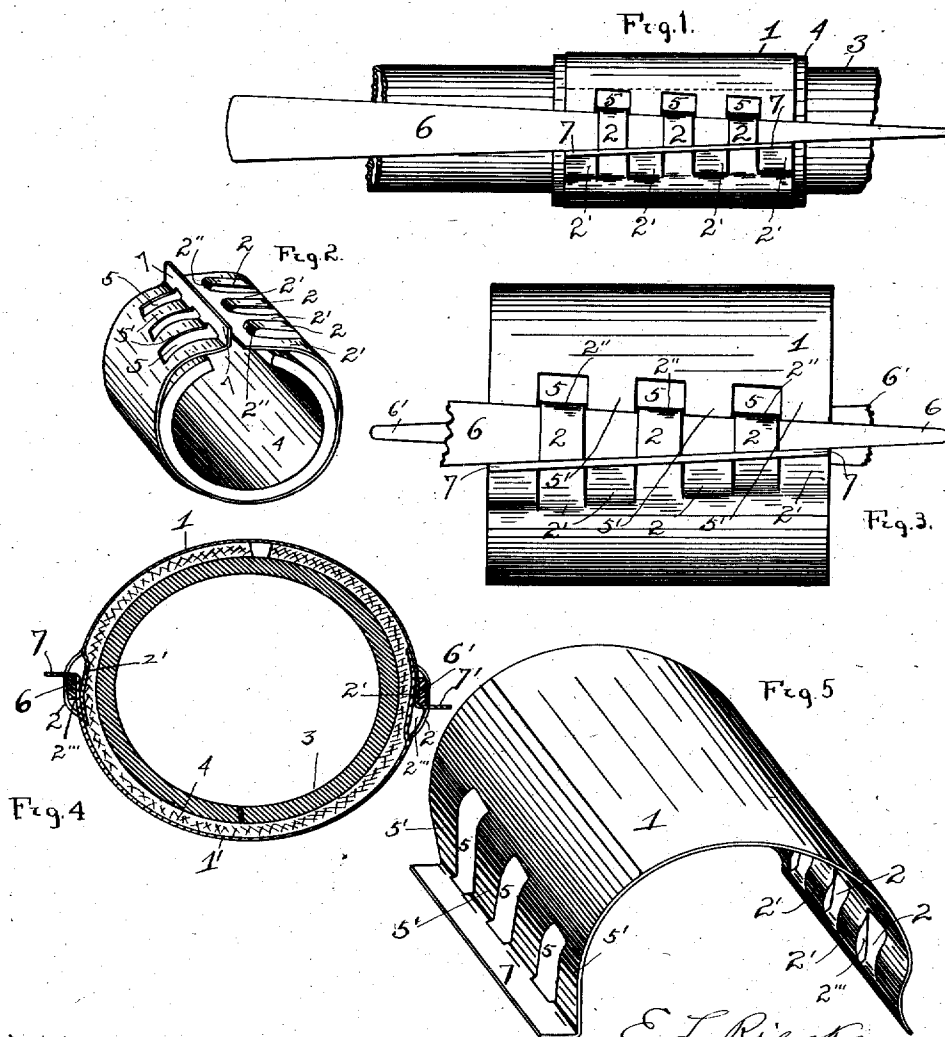


No. 809,327.

PATENTED JAN. 9, 1906.

E. L. RIESKE.  
PIPE CLAMP.

APPLICATION FILED SEPT. 18, 1904. RENEWED NOV. 27, 1905.



Witnesses:

J. Fred Hemburger.  
L. M. Theobald.

E. L. Rieske

Inventor

By R. J. McIntyre

his Attorney.

# UNITED STATES PATENT OFFICE.

EDWARD L. RIESKE, OF TROY, OHIO, ASSIGNOR TO GAMALIEL C. MYERS,  
OF DAYTON, OHIO.

## PIPE-CLAMP.

No. 809,327.

Specification of Letters Patent.

Patented Jan. 9, 1906.

Application filed September 19, 1904. Renewed November 27, 1905. Serial No. 289,246.

*To all whom it may concern:*

Be it known that I, EDWARD L. RIESKE, a citizen of the United States, residing at Troy, in the county of Miami and State of Ohio, have invented certain new and useful Improvements in Pipe-Clamps; and I do declare, the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in pipe-clamps of the type designed for repairing leaks in piping—such, for example, as gas, water, and steam pipes.

The object of the invention is to provide a clamp which may be quickly placed in cases of emergency in positions upon piping to most effectually stop any leakage therein.

Preceding a detail description of my invention reference is made to the accompanying drawings, of which—

Figure 1 is a view illustrating my improved pipe-clamp in an operative position upon a piece of piping. Fig. 2 is a perspective view of the clamp removed from the pipe. Fig. 3 is a view of a modification of the clamp adapting it more suitably for pipes of larger diameter. Fig. 4 is a cross-sectional view of the clamp as shown in Fig. 3. Fig. 5 is a perspective view of one-half of the clamp as shown in Fig. 3.

In a detail description of my invention similar reference characters indicate corresponding parts.

1 designates a metallic pipe-clamp constructed of suitable resilient metal, having on the interior thereof a suitable packing 4 and designed to inclose a pipe 3 to stop any leakage therein. The clamp when constructed of a single piece of material is designed to be used upon pipes of the smaller diameters. The clamp as shown in Figs. 3, 4, and 5 is designed to be used on pipes of larger diameters and instead of being constructed of one piece is made of two similar parts 1 1', which are united at their longitudinal edges at opposite points, as will hereinafter be more fully set forth. In all other respects the essential features of the clamp are the same, and I will now proceed to describe said essential details of construction. These consist of a series of

oppositely-bent loops 2 2', which are stamped in the metal adjacent to one of the longitudinal edges of the clamp. The loops 2 when the clamp is in an operative position, as in Figs. 1 and 2, are caused to enter a corresponding number of slots 5, stamped from the metal adjacent to the other longitudinal edge of the clamp and in alinement with said loops 2 and leaving a series of loops 5'. The length of the slots 5 is essentially somewhat greater than the length of the loops 2 in order that said loops may have free entrance into said slots in the operation of tightening the clamp. The edge of the portion of the clamp which is provided with the slots 5 is turned at a right angle outward to provide a tapering wall 7. The outer terminals 2'' of the loops 2 are on a taper corresponding to the inclination of the wall 7, and the said wall and said terminals 2'' correspond to the taper of a wedge-shaped key 6 and form bearings on opposite sides of said key. The key is driven through the spaces 2''' between the loops 2 2', and the clamp is thus rigidly tightened around the pipe. The clamp when constructed of two parts 1 and 1' for larger diameters of pipes, as shown in Figs. 3 and 4, is provided with a double set of loops 2 and 2' and with double tapered walls 7 and 7', said walls being on opposite edges of each part. Coöperating with the clamp thus formed are two tapered keys 6 and 6', which are driven into the clamp from opposite sides, as shown in Fig. 3.

In the operation of my improved pipe-clamp when the same is constructed of a single piece of material, as shown in Fig. 1, it is simply spread apart sufficiently to enable it to inclose the pipe at the point of leakage. The clamp is then initially pressed together by the hand to cause the outer ends of the loops 2 to enter the slots 5 and the loops 5' between said slots to lie above the loops 2'. The small end of the tapered wedge 6 is then inserted between the loops 2 and 5' at one end of the clamp—for example, between the loops 2 and 5', designed to receive the end of the wedge—and the said wedge is then driven through the spaces 2''' between the remaining loops 2 and 5' to a position to cause said clamp to be drawn together rigidly throughout its length. In the operation of the clamp when constructed of two parts, as shown in Fig. 3, the said two parts are placed about the piping in a similar manner and are pressed together to permit

the initial entrance of two wedges 6 and 6' at opposite points on each side of the clamp, and the said wedges are then driven between the loops 2 and 5' until the clamp is rigidly tightened upon the piping.

Having described my invention, I claim—

1. A pipe-clamp having a series of loops in one portion thereof, the ends of said loops being integrally joined to said portion, and a corresponding series of slots into which said loops project, said slots having a series of adjacent parallel bars forming loops, a tapering wall lying on the outside of said slots, and a wedge-shaped key adapted to enter the loops on both portions of the clamp, and to draw said portions together as shown and described.

2. A clamp for stopping leak-holes in piping, consisting of a metallic band having a series of parallel loops stamped therein adjacent to one longitudinal edge thereof, and a series of parallel loops adjacent to the other longitudinal edge thereof with a series of intervening slots, a tapered wall extending

throughout the length of the clamp, and an insertible key between the two series of loops and adapted to tighten said clamp by being confined on one side by said wall and on the other side by the inner terminals of the loops.

3. A clamp for stopping leak-holes in piping, having in one longitudinal edge thereof a series of stamped loops, the outer terminals of which extend on an angle to the body of the clamp, and the other longitudinal edge of said clamp having a series of parallel loops and slots inclosed at their outer terminals by a tapered wall extending throughout the length of the clamp, and a double tapered key adapted to pass between said loops and to draw the clamp together.

In testimony whereof I affix my signature in presence of two witnesses.

EDWARD L. RIESKE.

Witnesses:

R. J. McCARTY,  
C. M. THEOBALD.

Correction in Letters Patent No. 809,327.

It is hereby certified that Letters Patent No. 809,327, granted January 9, 1906, upon the application of Edward L. Rieske, of Troy, Ohio, for an improvement in "Pipe-Clamps," was erroneously issued to Gamaliel C. Myers, as owner of the entire interest in said invention; that said Letters Patent should have been issued to the inventor, said Rieske and Gamaliel C. Myers, jointly, said Myers being the assignee of one-half interest only in said patent, as shown by the record of assignments in this office; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 20th day of February, A. D., 1906.

[SEAL.]

F. I. ALLEN,  
Commissioner of Patents.

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F. I. ALLEN,  
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