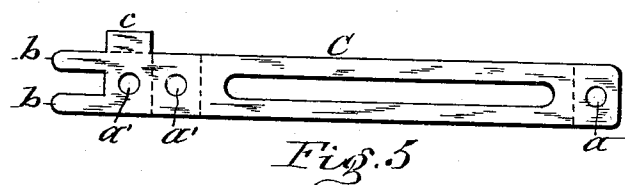
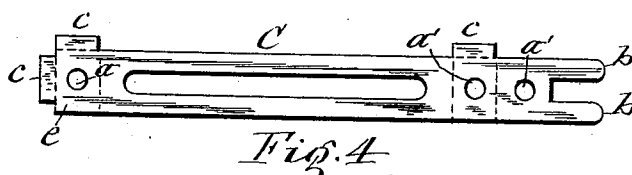
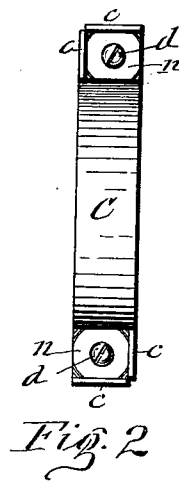
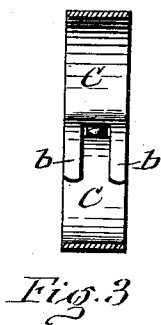
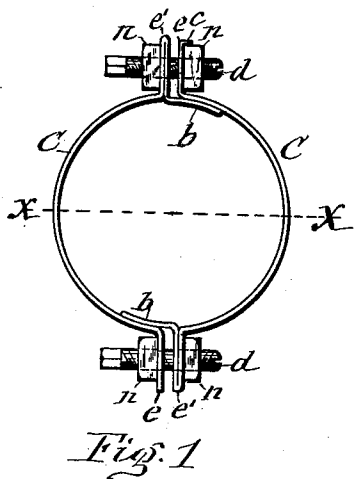


(No Model.)

L. H. REDFIELD.  
HOSE CLAMP.

No. 480,514.

Patented Aug. 9, 1892.



WITNESSES:

H. B. Allen.

C. L. Bendixson.

INVENTOR:

Lewis H. Redfield

By *Wm. L. Lusk & Son*

his ATTORNEYS.

# UNITED STATES PATENT OFFICE.

LEWIS H. REDFIELD, OF SYRACUSE, NEW YORK, ASSIGNOR OF ONE-HALF TO  
J. RICHARD CLANCY, OF SAME PLACE.

## HOSE-CLAMP.

SPECIFICATION forming part of Letters Patent No. 480,514, dated August 9, 1892.

Application filed January 4, 1892. Serial No. 416,922. (No model.)

*To all whom it may concern:*

Be it known that I, LEWIS H. REDFIELD, of Syracuse, in the county of Onondaga, in the State of New York, have invented new and useful Improvements in Hose - Clamps, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention relates to the class of hose-clamps which are composed of two semicircular bands terminating with perforated coupling-ears and united by bolts and nuts applied to said ears.

The object of this invention is to provide a hose-clamp of the aforesaid class which shall be more flexible, so as to allow it to embrace more effectually the hose and also allow it to be applied more easily to the hose, and when applied it shall be provided with guards across the spaces between the coupling-ears, so as to prevent the hose from crimping and buckling up in said spaces, all as hereinafter more fully described, and specifically set forth in the claims.

In the annexed drawings, Figures 1 and 2 are respectively edge and side views of a hose-clamp embodying my invention. Fig. 3 is a transverse section on line *xx* in Fig. 1, and Figs. 4 and 5 are plan views of the blanks from which the two sections of the hose-clamp are formed.

Similar letters of reference indicate corresponding parts.

*C C* represent the two sections of the hose-clamp. Said sections consist of bands stamped out of suitable sheet metal by means of suitable dies. Each of these sections or bands is provided with a perforation *a* in one end, perforations *a' a'* in the opposite end and in the central longitudinal line of the band, and fingers *b b*, extending from said end, and I also prefer to form the bands with flanges *cc* on the edges of the end portions thereof. The main portion of each of the bands *C* is bent into semicircular shape, the single perforated end *e* is bent radially outward, and the double perforated end portion *e'* is folded

upon itself on a transverse line midway between the perforations *a' a'*, and said folded portion is bent radially outward and the fingers *b b* bent from the folded portion, so as to lap onto the inner side of the adjacent end of the companion section or band *C*. The two bands are united by bolts *d d*, passing through the ears and nuts *n n* on said bolts. I preferably employ right and left screws with correspondingly-threaded nuts, as shown, thereby allowing the nuts to bear on the ears close to the main portion of the band. The flanges *cc* I turn up at right angles from the ears *e* to prevent the nuts from turning with the screw in the operation of tightening the clamp. The bands may be either solid, as shown in Figs. 2 and 3 of the drawings, or slotted longitudinally, as represented in Figs. 4 and 5 of the drawings.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A hose-clamp composed of two sheet-metal bands, each bent into semicircular shape, with a perforated outwardly-bent ear at one end and having the opposite end portion folded upon itself and terminated with forwardly-extending fingers and perforated in said folded position and two sets of clamping bolts and nuts uniting said bands at the aforesaid ears, substantially as described and shown.

2. The within-described blanks for hose-clamp, consisting of the sheet-metal bands *C C*, each provided with the perforation *a* in one end, perforations *a' a'* in the opposite end and disposed in the longitudinal central line of the band, fingers *b b*, extending from said end, and flanges *cc* on the edges of the end portions of the band, substantially as described and shown.

In testimony whereof I have hereunto signed my name this 31st day of December, 1891.

LEWIS H. REDFIELD. [L. s.]

Witnesses:

H. M. SEAMANS,  
J. J. LAASS.