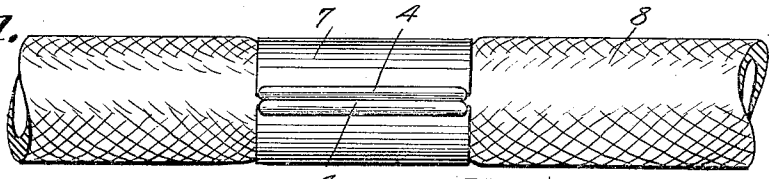
June 20, 1933. F. J. RUPERT 1,914,790

HOSE PATCH

Filed Oct. 22, 1932

Fig. 1.



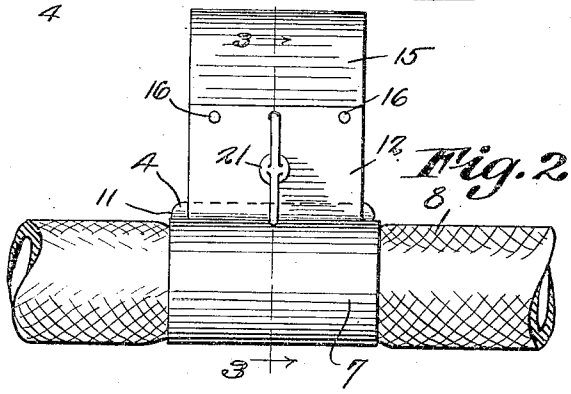


Fig. 2.

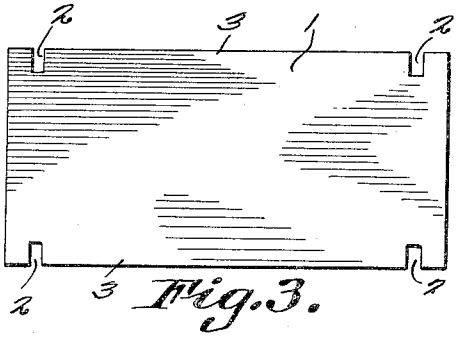


Fig. 3.

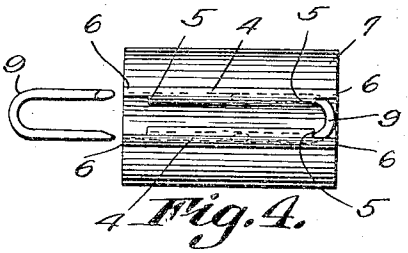


Fig. 4.

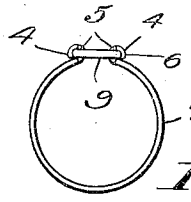


Fig. 5.

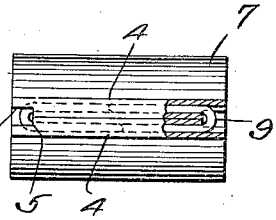


Fig. 6.

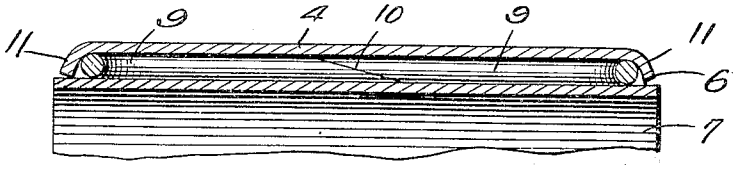


Fig. 7.

F. J. Rupert
Inventor

By Chas. Thos. & Co.
Attorneys.

Patented June 20, 1933 1,914,790

UNITED STATES PATENT OFFICE

FREDERICK J. RUPERT, OF SALEM, OREGON, ASSIGNOR OF ONE-HALF TO PAUL BLACK WALLACE, OF SALEM, OREGON

HOSE PATCH

Application filed October 22, 1932. Serial No. 639,130.

This invention aims to provide a simple means for mending a hole in a hose, without cutting the hose apart and putting in a coupling, the word "hose" being taken to mean tubing, piping, or any structure resembling a hose and in need of mending or reenforcing.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the invention appertains.

With the above and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

In the accompanying drawing:

Fig. 1 shows in top plan, a hose mended through the instrumentality of the device forming the subject matter of this application;

Fig. 2 is a side elevation, with the applying tool in place;

Fig. 3 is a plan of the blank out of which the patch is made;

Fig. 4 is a plan of the article, the view showing the retainers in process of insertion;

Fig. 5 is an end elevation of the complete article, prior to tightening it;

Fig. 6 is a top plan with parts broken away, the device being at an intermediate stage of completion;

Fig. 7 is a longitudinal section with parts broken away, the view showing the completed article.

In carrying out the invention, there is provided, as shown in Fig. 3, a sheet 1 which, preferably, is rectangular in form, flexible, and made of non-corrosive and non-rusting metal. There are transverse notches 2 in the outer edge portions 3 of the sheet 1, the notches 2 being disposed adjacent to the ends of the sheet.

The outer edge portions 3 of the sheet 1 are rolled to form tubular sockets 4 along the longitudinal edges of the sheet. The notches 2 form seats 5 in the ends of the sockets 4, and they form, also, bendable portions 6 at the outer ends of the sockets 4.

The device, as thus far described, may be sold flat, as an article of manufacture. If the manufacturer wishes, however, he can form the sheet into a tubular body 7 approximating the size of the hose 8 that is to be mended.

The patch, whether in sheet form, or in the form of the body 7, is placed about the hose 8, with the sockets 4 a little way apart, as shown in Fig. 4. The legs of staple-shaped retainers 9 are inserted into the sockets 4 to hold the device in the position of Fig. 4, the bends of the retainers being received in the seats 5. The ends of the legs of the retainers 9 are bevelled and overlapped, as shown at 10 in Fig. 7, to afford reenforcement and strength.

By means of a suitable tool (not shown), the sockets 4 are forced together, or as closely together as is desired. The retainers 9 are stiff enough to hold the patch in the position stated, and tightly about the hose 8, after the sockets 4 have been moved inwardly toward each other. The bendable portions 6 at the outer ends of the sockets 4 are turned inwardly to form tongues 11 (Fig. 7) which, engaging the bends of the retainers 9, hold the retainers against working endwise out of the sockets 4.

Having thus described the invention, what is claimed is:

A hose patch comprising a tubular body provided with longitudinal sockets, there being inwardly extended notches forming seats

in the outer ends of the sockets, the walls of the notches providing bendable portions at the outer ends of the sockets, and a staple-shaped retainer having its legs mounted in the sockets, the bend of the retainer adapted to be received in the seats, said bendable portions being turned inwardly to form tongues which engage the bend of the retainer, to hold the retainer in place.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

FREDERICK J. RUPERT.