W. M. HOERLE.

WALL PLUG.

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905,316.

Patented Dec. 1, 1908.

Fig. 1.

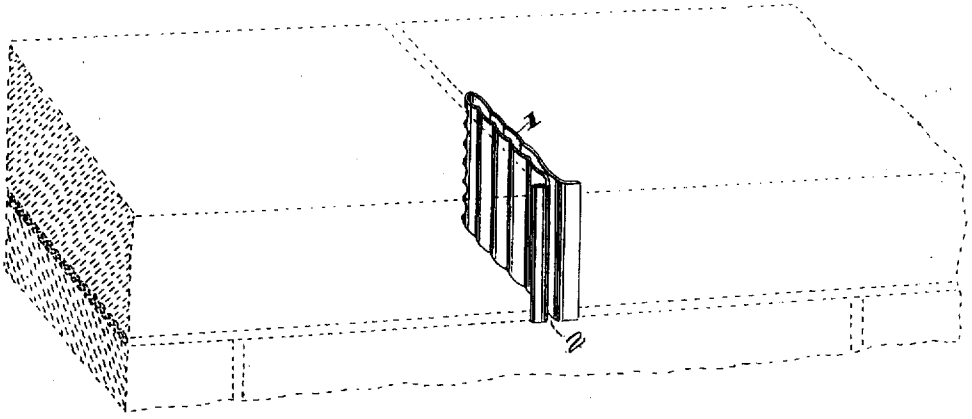


Fig. 2.

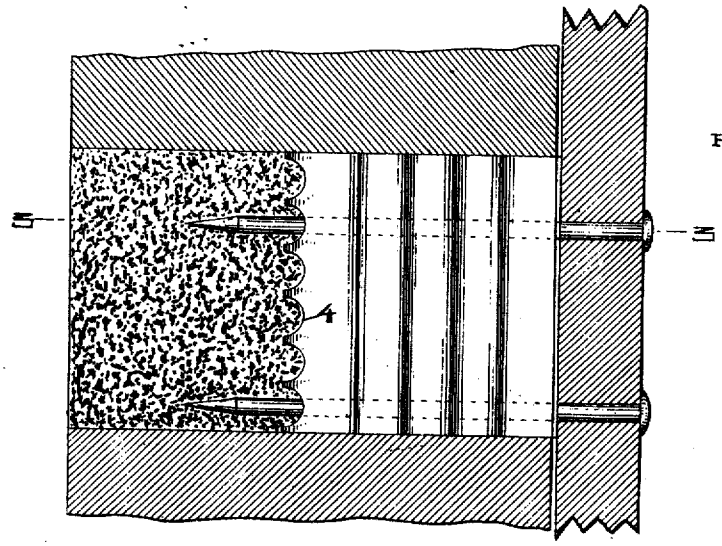
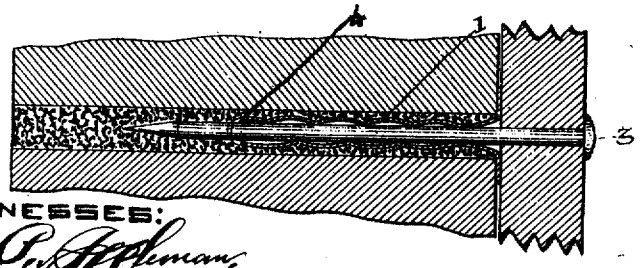


Fig. 3.



WITNESSES:

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WALL-PLUG.

No. 905,316. Specification of Letters Patent. Patented Dec. 1, 1908.

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To all whom it may concern:

Be it known that I, WILLIAM M. HOERLE, a citizen of the United States, residing at Allegheny city, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Wall-Plugs; 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.

The object of this invention is to provide a cheap compact and durable wall plug that will securely hold the material desired to fasten against the wall and that can be readily applied where desired.

My invention relates to improvements in plugs for walls where heretofore blocks of wood and other plugs were used.

It is designed to be placed between bricks either when erecting, or after the walls are built, by removing material to make room between the bricks or making an opening in cement walls large enough to receive the plug, then when fastening the material to said walls the nail is driven between and through making a positive hold.

It consists of a piece of metal perforated or notched and formed or corrugated, each side of said holes or notches, and then bent close together forming a clamp with extended lips at the open end as shown and hereafter more fully described.

To enable others skilled in the art to which my invention appertains to construct and use the same, I will now describe it more fully, reference being had to the accompanying drawing forming part of this specification, in which

Figure 1— is a perspective view showing the wall plug as used between the bricks in a wall ready for use. Fig. 2— is a vertical view showing the wall plug in place with the material nailed to the wall by means of a nail passing through said material and extending through the closed notches of the plug. Fig. 3— is a sectional view of the plug showing the nail driven in place, and the manner of holding the nail both by means of the corrugations and the sharp edges of closed notches.

Referring to the drawing:—Fig. 1 represents wall or masonry; 1 the wall plug, which consists of a piece of material corrugated and folded close together with its closed edge notched, this notched effect preferably being constructed by perforating the said piece of material and then folding together through the perforations.

In Fig. 2 the plug is shown as used by driving a nail through the material said nail passing between the corrugations and out through the notched portion thereby not only having the benefit of the pressure of the corrugations, but also the sharp edges of the notches.

Where it becomes necessary to have the material to be fastened to the wall in a true line, and the surface of wall is irregular or not in a true line, two or more of these plugs can be placed one in the other, or what is known as telescoping together until the desired true line is acquired. This feature of telescoping is also of considerable advantage in filling large or irregular openings as in the ordinary rough stone wall, and to readily conform the flanges of the plug to a straight line in such walls.

In Fig. 3 the effect of the nail or other device for fastening is shown. The said device forces the corrugations outwardly against the wall, or substance between which the plug is placed, and also passes through the notched end, the sharp edges of which impinge against the side of nail making a secure hold. This feature is very essential in the use of devices of this kind.

In addition to the advantages heretofore enumerated my improved plug has the further advantage of being very cheap and economical to manufacture, as by reason of the material being of one piece, and cut without waste of material. Another advantage is that this plug can be made in any length which is of great advantage for cement or brick floors or as joists for partitions to hold lathing or wainscoting.

I claim as new and desire to secure by Letters Patent:—

1. A wall plug consisting of a single piece of corrugated material forming a series of ridges and depressions and having a central transverse line of perforations parallel to said ridges, the said strip or piece being folded together on a line through the perfo-

rations, thereby forming a clamp having its ridges and depressions alternating with those on the opposite side and forming an irregular restricted space between the walls of the clamp.

2. A wall plug consisting of a single piece of corrugated material having a central transverse line of perforations, the said piece being folded together on a line through the perforations, thereby forming a clamp with gripping edges at folded perforations as described.

3. A wall plug as described consisting of a single piece of stamped material folded together, and having its folded edge notched out, thereby forming a clamp with gripping edges at folded edge through notchings.

4. A wall plug consisting of a single piece of material corrugated so as to form a series of ridges and depressions, its ends bent or flared outwardly and then folded together, and folded edge notched to form a grip as described.

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

WILLIAM M. HOERLE.

Witnesses:
C. A. WILSON,
A. D. WILSON.