H. G. CARLSON.

NUT.

APPLICATION FILED FEB. 17, 1913.

1,172,427. Patented Feb. 22, 1916.

Fig. 1.

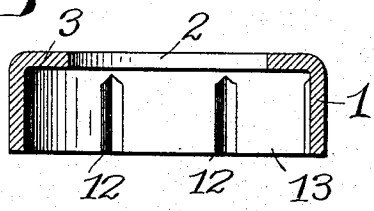


Fig. 2.

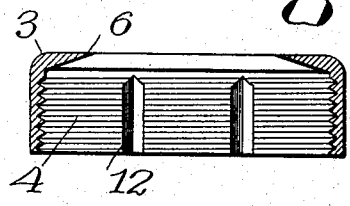


Fig. 3.

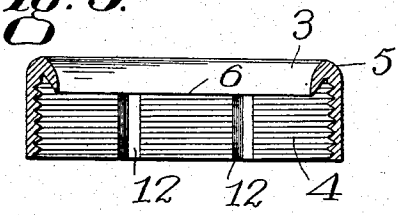


Fig. 4.

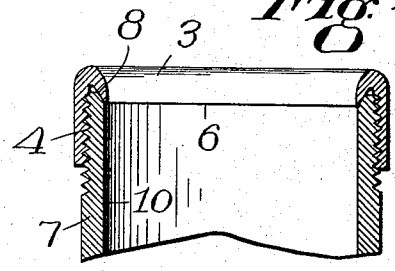


Fig. 5.

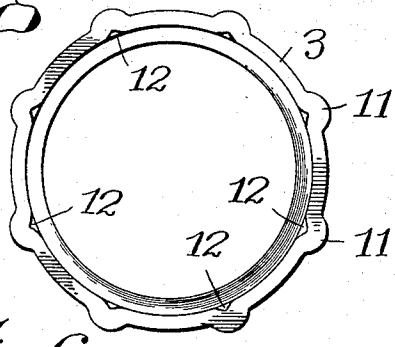
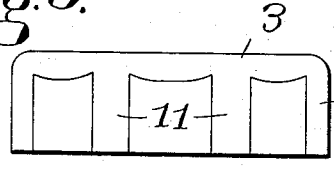


Fig. 6.



Witnesses

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HJALMAR G. CARLSON, OF WORCESTER, MASSACHUSETTS, ASSIGNOR TO ROCKWOOD SPRINKLER COMPANY OF MASSACHUSETTS, OF WORCESTER, MASSACHUSETTS, A CORPORATION OF MASSACHUSETTS.

NUT.

1,172,427. Specification of Letters Patent. Patented Feb. 22, 1916.

Application filed February 17, 1913. Serial No. 748,797.

To all whom it may concern:

Be it known that I, HJALMAR G. CARLSON, a citizen of the United States, residing at Worcester, in the county of Worcester and Commonwealth of Massachusetts, have invented a new and useful Improvement in Nuts, of which the following is a specification, accompanied by drawings forming a part of the same.

My present invention relates to an improved nut capable of being constructed of sheet metal, and particularly to that class of nuts which are used to form a cap or finish for the ends of metal pipes, such as those employed as conduits.

My invention is carried into effect as hereinafter described, the novel features being pointed out in the annexed claims.

Referring to the accompanying drawings, Figure 1 represents in central, sectional view a cup shaped blank from which a nut embodying my invention is made. Fig. 2 is a central, sectional view of the blank with an interior screw thread and with the interior flange beveled. Fig. 3 represents the completed nut in sectional view. Fig. 4 represents in sectional view the completed nut applied to the end of a pipe. Fig. 5 is an end view of the completed nut, and Fig. 6 is a side view of the same.

Similar reference letters and figures refer to similar parts in the different views.

Referring to the drawings 1 denctes a cup shaped blank suitably formed from a circular disk by a punch and die in a manner well known to those conversant with sheet metal work. The blank 1 is provided with a concentric hole 2 through its end of less diameter than the diameter of the blank forming an interior flange 3 at right angles with the side of the blank. A screw thread 4 is then formed in the interior, and the inner side of the flange 3 is beveled by means of a suitable tool, preferably capable of beveling the flange simultaneously with the cutting of the screw thread. The flange 3 is then bent inwardly, as shown at 5, Fig. 3, with the thin edge 6 of the flange overlapping a portion of the screw threads 4 and standing at sufficient distance from the screw threads to receive the end of a pipe 7, which is preferably slightly beveled at its end, as shown at 8, Fig. 4, and bringing the surface 9 of the flange coincident with the inner surface 10 of the pipe 7.

In drawing the cup shaped blank from the circular disk I employ a punch and die of suitable shape to form a series of external ribs 11, in the present instance eight in number, preferably arranged with equidistant spaces, enabling the periphery of the nut to be seized by a wrench. The interior of the cup shaped blank is provided with a series of recesses 12 opposite the external ribs 11. The external ribs 11 extend substantially the entire length of the nut, while the inner recesses 12 extend from the open end 13 through that portion of the nut which is to receive a screw thread.

When the nut is applied to the end of a pipe, as shown in Fig. 4, the beveled end of the pipe is permitted to enter a space between the side wall of the nut and the edge of the flange owing to the screw thread 4 of the nut entering beneath the inturned edge of the flange. The recesses 12 serve to gather any dirt or iron chips that may rest upon the internal screw thread 4 while the nut is being screw threaded upon the pipe.

I claim—

1. As an article of manufacture, a nut having at one end an interior flange, said flange being beveled on its under side and turned inwardly, whereby to space its free edge from the interior wall of said nut.

2. As an article of manufacture, a nut having a series of external longitudinal ribs and a series of internal longitudinal recesses corresponding to said ribs, and provided at one end with an interior flange, said flange being beveled on its under side and turned inwardly and extending past the ends of said internal recesses, to provide an annular space for the end of a pipe.

3. As an article of manufacture, a nut comprising an interiorly screw threaded

body portion and an interior flange forming an extension of said body portion, said flange being reduced in thickness from its base to its free edge, and turned inwardly of said body portion to provide an annular space for the end of a pipe.

Dated this 13th day of February, 1913.

HJALMAR G. CARLSON.

Witnesses:
PENELOPE COMBERBACH,
NELLIE WHALEN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."