S. BARUCH.

NUT PROTECTOR.

APPLICATION FILED JULY 28, 1914.

1,154,960.

Patented Sept. 28, 1915.

Fig. 1.

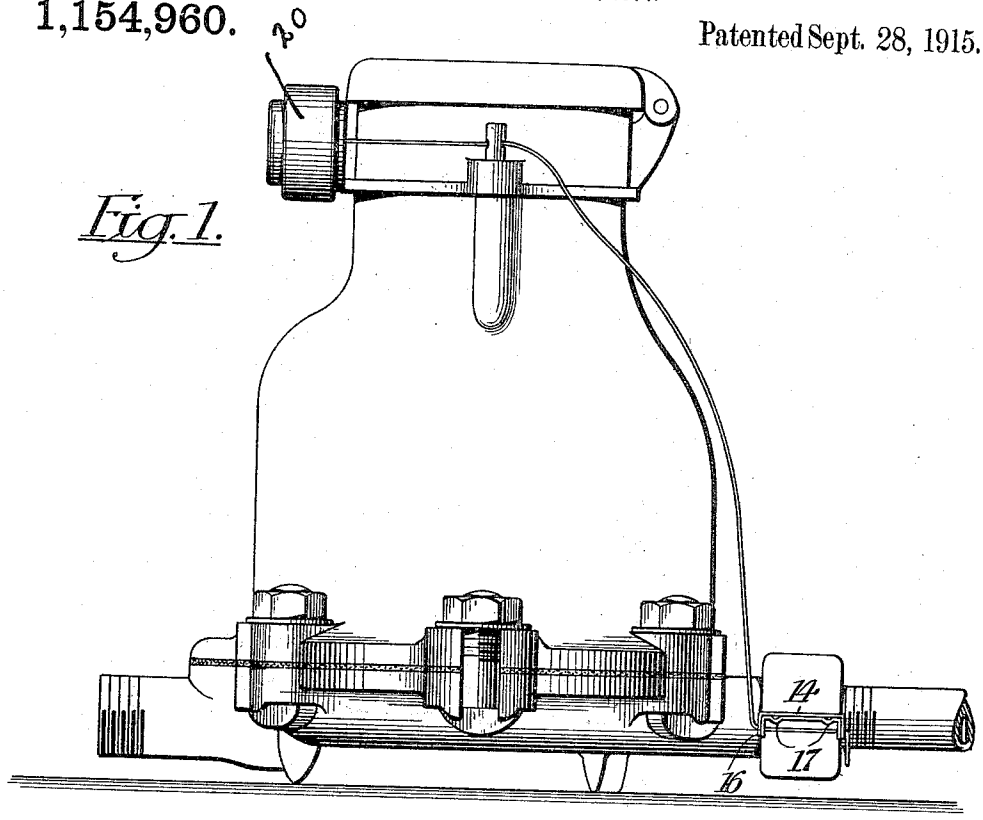


Fig. 2.

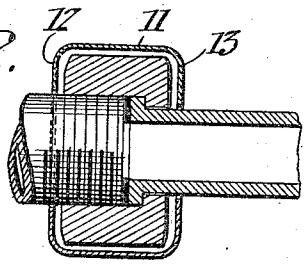


Fig 3

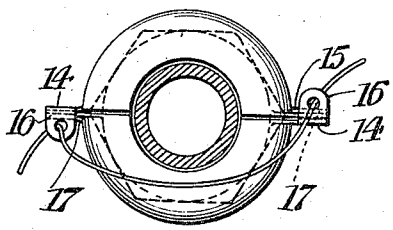
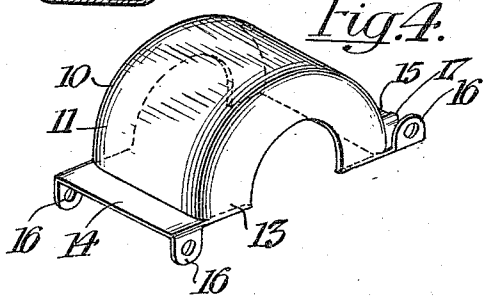


Fig. 4.



WITNESSES

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SAMUEL BARUCH, OF NEW YORK, N. Y.

NUT-PROTECTOR.

1,154,960. Specification of Letters Patent. Patented Sept. 28, 1915.

Application filed July 28, 1914. Serial No. 853,580.

To all whom it may concern:

Be it known that I, SAMUEL BARUCH, a citizen of the United States, and resident of New York city, borough of Manhattan, in the county of New York and State of New York, have invented certain new and useful Improvements in Nut-Protectors, of which the following is a specification.

This invention relates to certain improvements in protectors for preventing the unscrewing of nuts, or the detaching or separating of pipe couplings, and involves a new and improved form of casing made up of a plurality of sections, and adapted to encircle or inclose the nut or coupling. With the sections wired together, and the wire ends fastened together by a suitable protector access cannot be gained to the nut or coupling.

My invention relates particularly to the form and construction of the sections going to make up the casing, and the means for securing them together, and involves the features and details of construction hereinafter more particularly pointed out, and defined in the claims.

Reference is to be had to the accompanying drawings, illustrating one embodiment of my invention, and one construction in connection with which it may be employed.

In these drawings:—Figure 1, is a side elevation of a meter having my improved protector used in connection with a pipe coupling thereof. Fig. 2, is a longitudinal section through the protector and a pipe coupling protected thereby. Fig. 3, is an end view of the parts shown in Fig. 2, and, Fig. 4, is a perspective view of one section of the casing.

My improved device is in the form of a casing adapted to inclose or encircle the nut or other member, the removal of which it is desired to prevent. The casing is formed of a plurality of sections 10 which may vary in number in different embodiments of my invention, but for ordinary use, I find that two sections are sufficient. Each section is preferably stamped from sheet metal and has a peripheral wall portion 11 preferably curved and lying in the arc of a circle, the diameter of which is slightly greater than that of the nut or other member to be protected. With two sections, the peripheral wall of each section is preferably substantially semi-cylindrical as illustrated, although it is of course evident that the peripheral wall of the separate sections may be so formed that when the sections are assembled, the complete peripheral wall of the casing will be hexagonal square, or of other form corresponding to that of the nut or other member to be protected.

Each section preferably has one or more end wall portions adapted to engage with, or lie opposite to, the ends of the nut. As shown there are two opposed end wall portions in the form of inwardly directed flanges 12 and 13, so that when the sections are assembled, there are two openings into the casing in axial alinement with each other. These openings are made of a diameter slightly larger than the pipes, rods, or other elements leading to the nut, coupling, or the like, and may of course be of different diameters depending upon the diameter of the said pipes, rods, or the like. Where it is desired to protect a nut upon the end of a bolt or other member, it is of course evident that the wall at one end of each section may be in the form of a segment of a circle, for instance a semi-circle, so that the casing when assembled will have only one opening leading to the interior thereof.

For securing the casing sections together, each section at the extremities of its peripheral wall, is provided with flanges 14 and 15 extending outwardly substantially radial. When assembled these flanges abut, and are secured together preferably by a sealed wire. As shown, each flange at each end has a small perforated lug or ear 16, disposed in a plane substantially at right angles to the plane of the flange. To reduce the cost of manufacture and the number of dies required, the two flanges at opposite ends of the same section may be made of the same width of material, and one flange, for instance the flange 15, may then have one or more narrow beads or grooves 17 formed therein, so as to reduce its total width. Thus when the sections are brought together to form a complete casing, the narrower flange 15 of one section will come opposed to the wider flange 14 of the other section and the two terminal ears or lugs 16 of each narrower flange will lie adjacent to, and preferably in contact with, the inner surface of the two lugs or ears 16 of the opposed and slightly wider flange.

The lugs or ears 16 are perforated so that after the casing sections have been assem-

bled about the nut, the perforations will be in registry, and a wire or cord or equivalent member may be extended through the perforations as illustrated in the drawings. The same cord or wire which is extended through the apertures of the lugs on one pair of flanges, is preferably brought around and extended through the perforations of the lugs or ears of the other pair of flanges, and the two ends of the wire or cord are then secured together by some suitable form of seal 20 which will prevent said ends from being separated. A suitable form of seal which I may employ for fastening together the ends of the wire or cord is shown in my prior Patent 1,074,769, granted October 7, 1913, but it is of course understood that as far as the present invention is concerned, I might use any other suitable form of seal for fastening together the ends of the wire or cord. The sections when so secured cannot be separated or moved in respect to each other without removing, loosening or breaking the wire or cord, and this can of course be readily detected. In some constructions, the ears 16 might be omitted and the apertures formed in the flanges 14 and 15.

Various other changes may be made in the construction illustrated without departing from the spirit of my invention or the scope of the appended claims.

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

1. A device of the class described including a casing formed of a plurality of similar sections, each section being formed of sheet metal and including end wall portions and a peripheral wall portion terminating in substantially radially disposed flanges, perforated lugs or ears at the opposite ends of both of said flanges, one flange of each section being narrower than the opposite flange of the other section by an amount substantially equal to twice the thickness of the metal forming said sections whereby the lugs or ears of one flange fit between those of the opposed flange and the perforations come into registry, a wire extending through the perforations, and a seal secured to said wire and preventing the withdrawal of the latter.

2. A coupling protector including two casing sections, each having outwardly extending terminal flanges each having perforated ears or lugs substantially at right angles to the plane of the flange, the flange of one section being narrower than the opposed flange of the other section whereby it may engage with said opposed flange between the ears or lugs of the latter and with the perforations in the ears or lugs of one flange in registry with the perforations in the ears or lugs of the other, a wire extending through the registering perforations, and a seal connecting the ends of said wire.

3. A coupling protector including two similar casing sections each having oppositely disposed outwardly extending terminal flanges, one flange of each section being slightly wider than the opposed flange of the same section and each flange having at its opposite ends two substantially parallel perforated ears or lugs, and means for holding said sections together with the wider flange of each section engaging with the narrower flange of the other section, said means including a wire extending through the registering perforations of said lugs or ears and a seal connecting the ends of said wire.

Signed at New York, in the county of New York and State of New York, this 27th day of July, A. D. 1914.

SAMUEL BARUCH.

Witnesses:
C. W. FAIRBANK,
EDITH VERRALL.