(No Model.)

G. VAN ZANDT.

HOOK FOR DRUM HEAD STRAINERS.

No. 382,124. Patented May 1, 1888.

Fig. 1.

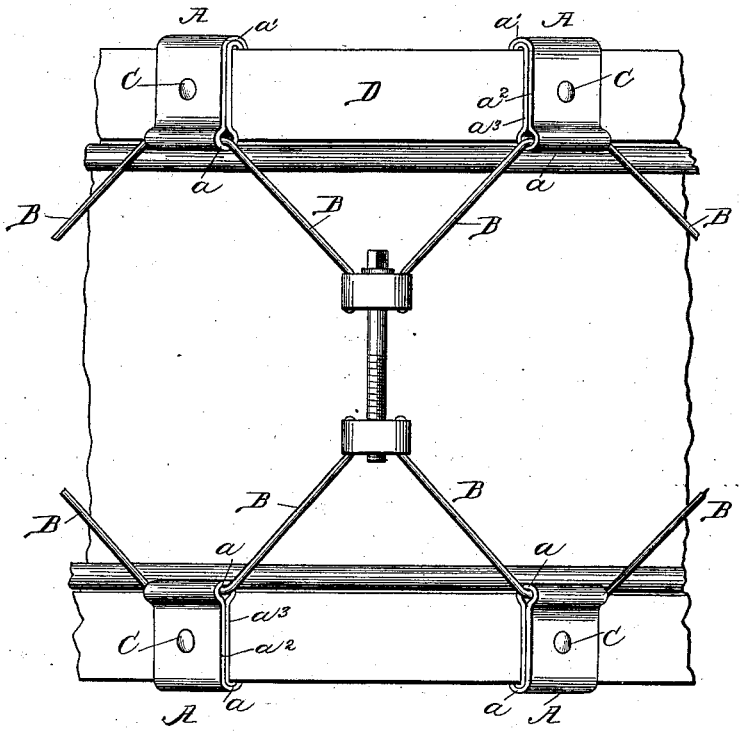
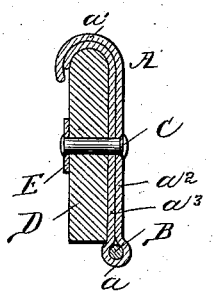


Fig. 2.



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UNITED STATES PATENT OFFICE.

GEORGE VAN ZANDT, OF CHICAGO, ILLINOIS.

HOOK FOR DRUM-HEAD STRAINERS.

SPECIFICATION forming part of Letters Patent No. 382,124, dated May 1, 1888.

Application filed August 31, 1887. Serial No. 248,425. (No model.)

To all whom it may concern:

Be it known that I, GEORGE VAN ZANDT, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Drum-Head Strainers, of which the following is a specification.

My invention is particularly directed to the improvement of the hooks or hangers employed in drum-head strainers for connecting the cords or wires with the hoops, and applied at points where it is desirable to provide bearings for the cords and wires and connect the same with the hoops.

The hanger characterized by my improvement is made from a comparatively wide sheet-metal strip, which is bent and folded upon itself along a line transversely to its length, so as to provide along the line of fold a comparatively long bearing for the straining-wire of a drum-head strainer. The two folds or leaves of such folded sheet-metal strip are brought together flatwise, and lie in close juxtaposition to one another from the fold in which the straining-wire is received, whereby the wire can be, and desirably is, closely clasped by the sheet-metal strip along the line of fold which serves to provide at one end of the hanger a rigid connection between the same and the straining-wire. The sheet-metal strip, thus folded upon itself so as to inclose and embrace the wire at one end of the hanger, is also bent to provide at the opposite end of the completed hanger a curved lip, which is designed to hook onto the outer edge of the hoop of the drum. The hanger thus formed lies flatwise against the hoop and closely follows the transverse sectional outline of the same, thereby avoiding objectionable projections, which, particularly along the outer edge of the hoop, would be of considerable annoyance to the drummer. The completed hanger thus made from a sheet-metal strip can from the primary operation of cutting the strip from a metal sheet to the completion of its two bends (or fold and bend) be economically and rapidly made by a suitable press or dies; and since it is made of sheet-metal the width of the strip can be such as to provide the hanger with broad bearings, respectively, for securing the wire and for engaging the edge of the hoop without undesirably increasing the weight of the hanger.

At a point between the hook end and the line of fold the two leaves of the sheet-metal hanger are connected together by a stud or rivet, which serves to maintain such two folds or leaves in a fixed relative position and prevents one leaf from slipping upon the other under the strain to which the hanger may be subjected, it being observed that such arrangement also places no particular limitation upon the length of the inner leaf, which is next adjacent to the hoop so long as such leaf is engaged by a stud or rivet passing through both leaves.

It is further desirable to attach the hanger to the hoop at some predetermined point, in order that an unskilled person in replacing a broken drum-head with a new one may not experience the difficulty of deciding as to the exact points where the hangers should be applied. To such end the stud or rivet which passes through the two leaves of the sheet-metal hanger is extended through the hoop, thereby firmly securing the hanger in place.

In the drawings, Figure 1 represents in side elevation a portion of a drum with a portion of the drum-head straining device applied and embodying my invention. Fig. 2 represents a section taken transversely through one of the hoops with my improved construction of hanger applied thereto.

The sheet-metal hanger A is formed from a metal strip of appropriate length and width, bent or folded upon itself so as to bring its two folds or leaves flatwise together, and provide along the line of fold a comparatively long straight bearing, *a*, wherein the wire B of the straining device is received and rigidly held. The strip thus folded upon itself to clasp or embrace the straining-wire is also bent to provide the curved lip a', which is adapted in contour to the outer rounded edge of the drum-hoop D, said engaging-lip being somewhat in the nature of a broad hook flat in cross-section, the width of such hook or engaging-lip serving to provide the hanger with a somewhat extended bearing on the edge portion of the hoop.

C indicates the stud or rivet, which passes through the two leaves a^2 and a^3 of the sheet-

metal hanger, thereby preventing any slip between them. This rivet is also extended through the hoop, as in Fig. 2, wherein its inner end is shown headed upon a washer, E.

As herein shown, the two leaves or folds of the folded metal strip are bent to form a curved lip, which engages upon the edge of the hoop; but it may be observed that in view of the rivet-connection between the two leaves and the width of the strip of which the hanger is formed the embracement of the hoop-edge by the inner leaf, a^3, is not a material feature, since the curved lip portion of the outer leaf, a^2, is of sufficient strength for all practical purposes.

It will be seen that this hanger corresponds in its general configuration to the cross-sectional outline of both the rounded outer edge and the outer side of the hoop, and that as the hanger is made of comparatively thin sheet metal the presence of all objectionable projections is avoided. The rivet, while serving to prevent the leaves from slipping upon one another under the strain of the tightened wires B, further serves to maintain the hangers in definite locations, whereby they are prevented from shifting their position on the hoops. It will also be observed that the frictional contact between the two leaves further assists in keeping them in place, and, further, that the outer leaf or fold binds against the inner leaf or fold and serves to clamp the same against the hoop.

The wires B are rigidly clasped by the hangers, and are herein shown attached at their ends to adjustable tension devices similar to the tension devices embodied and forming the subject-matter of a claim in my application, Serial No. 246,921, for Letters Patent now pending in the United States Patent Office, although no limitation is herein placed upon the particular construction of adjustable tension devices employed.

As hereinbefore stated, these hangers can be readily and economically produced by machinery, and when made and applied as hereinbefore set forth will be found light, durable, and of an exceedingly neat appearance.

What I claim as my invention is—

1. In a drum-head strainer, a hanger for the straining-wire, formed of a sheet metal strip folded back upon itself to provide along the line of fold a bearing, *a*, wherein the straining-wire is clasped and bent to form a curved lip, *a'*, which engages upon the edge of the hoop, the two leaves of such folded strip being brought closely together flatwise from the fold, substantially as and for the purpose set forth.

2. In a drum-head strainer, a hanger for the straining-wire, formed of a sheet-metal strip folded upon itself to receive and clasp the straining-wire along the line of fold and bent to provide a curved lip which engages the edge of the hoop, the two leaves of such sheet-metal hanger being brought together from the fold and held against slipping upon one another by a rivet, substantially as set forth.

3. In a drum-head strainer, a hanger for the straining-wire, formed of a sheet-metal strip folded upon itself to receive and clasp the straining-wire along its line of fold, and bent to provide a curved lip which engages the edge of the hoop, the two leaves of such sheet-metal hanger being brought together from the fold, and combined with a rivet passing through both leaves and extending into the hoop, substantially as and for the purpose set forth.

GEORGE VAN ZANDT.

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