

(No Model.)

H. M. DELLINGER.
CLAMP FOR BARREL HEADS.

No. 543,421.

Patented July 23, 1895.

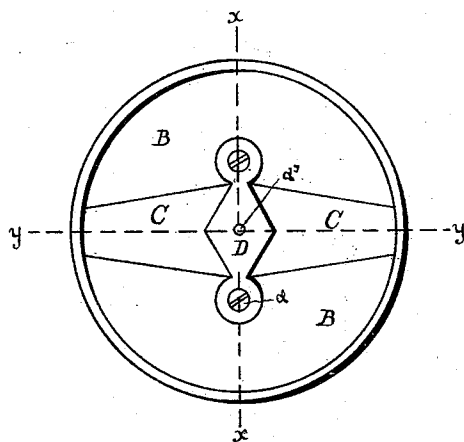


Fig. 1.

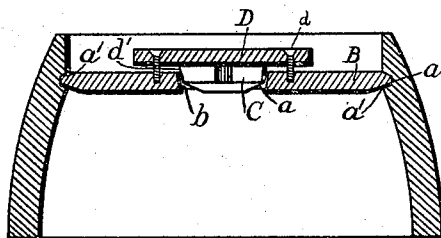


Fig. 2.

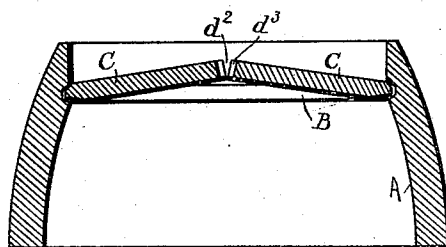


Fig. 3.

Witnesses
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UNITED STATES PATENT OFFICE.

HIRAM M. DELLINGER, OF PARADISE, PENNSYLVANIA.

CLAMP FOR BARREL-HEADS.

SPECIFICATION forming part of Letters Patent No. 543,421, dated July 23, 1895.

Application filed August 13, 1894. Serial No. 520,174. (No model.)

To all whom it may concern:

Be it known that I, HIRAM M. DELLINGER, a citizen of the United States, residing in Paradise, in the county of Lancaster, State of Pennsylvania, have invented certain Improvements in Clamps for Barrel-Heads, of which the following is a specification.

This invention relates to improvements in that class of devices employed for removably securing barrel-heads, heads of casks, kegs, pails, and other like cooperage articles; and the objects of the invention are, first, to so secure the head that it may be removed from the barrel without disturbing the hoops thereof, and, second, to tighten the head in the barrel and take up the shrinkage of the parts of the same.

The invention consists in the construction and combination of the various parts, as hereinafter fully described, and then specifically pointed out in the claims.

My invention is illustrated in the accompanying drawings, in which—

Figure 1 is a top view of a barrel-head divided into sections and held in place by a wedge-bar located between said sections; Fig. 2, a vertical section of the same on line $x x$; and Fig. 3, a similar section on line $y y$, the keeper D being removed.

Similar letters indicate like parts throughout the several views.

Referring to the details of the drawings, A indicates a portion of a barrel.

In Figs. 1 and 2 the barrel-head is divided into two sections B B, having their peripheries beveled, as shown at a' , to meet the corresponding slopes of the walls of the croze a . The space dividing the head-sections is approximately of a lozenge shape and extends entirely across the barrel, the edges of the sections adjoining said space being beveled, as seen at b . The space between the head-sections is engaged by a wedge-plate C of similar shape thereto, and having its longitudinal edges d' sloped inward from the top to the bottom of the plate to correspond with the beveled edges of the head-sections. This plate is divided transversely into equal parts, as seen at d^2 , Fig. 3, to permit it to be inserted between the head-sections or removed therefrom.

In putting the head in the barrel the sec-

tions thereof are first engaged with the croze. The outer ends of the parts of the wedge-plate are then also inserted in the croze between the head-sections, the inner ends meeting, as shown at d^2 , when the wedge-plate is forced home between said head-sections. The wedge-plate is secured in place by a keeper D, passing transversely over the joint in said plate and fastened to the head-sections by screws d . With the shrinkage of the parts the head-sections are tightened in place by depressing the wedge-plate by means of the screws and keeper. In the inner ends of the sections of the wedge-plate are registering semicircular recesses, which, when those ends meet, form an opening d^3 , covered and closed by the keeper when in its normal position. Through this opening the contents of the barrel can be examined, without removing any portion of the head, by loosening an end of the keeper and swinging it to one side on the screw at the other end.

The lozenge shape of the wedge-plate causes any downward pressure exerted to act radially upon the head-sections and equalize the strain upon the staves.

I do not limit myself to any particular shape of wedge-plate nor to any special manner of securing and tightening them in place; neither do I restrict myself to the details of construction of other parts of the device herein shown and described, as it is obvious that many alterations may be made therein without departing from the spirit of my invention.

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

1. In a barrel, the combination, with a head divided into sections, said sections engaging the croze and having their inner edges beveled, of a wedge-plate divided transversely into two parts, the ends of said wedge-plate engaging the croze between the head-sections and having the edges thereof adapted to engage the beveled edges of said head-sections, the said parts of the wedge-plate having registering recesses formed in their meeting edges, and a keeper covering the opening formed by said recesses, substantially as and for the purpose specified.

2. In a barrel, the combination, with a head divided into sections, said sections engaging

the croze and having beveled edges so cut as to form a lozenge-shaped opening between them, of a lozenge-shaped wedge-plate divided transversely into two parts, said wedge-plate engaging the croze between the head-sections and having the edges thereof adapted to engage the beveled edges of the head-sections, the said parts of the wedge-plate having registering recesses formed in their meeting edges, and a keeper covering the opening 10 formed by said recesses, substantially as and for the purpose specified.

HIRAM M. DELLINGER.

Witnesses:

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