

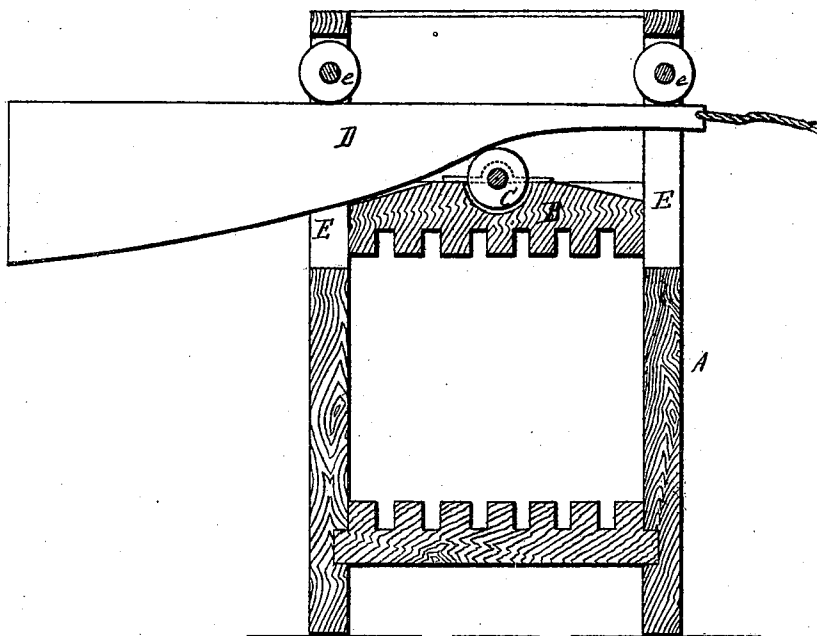
G. W. D. CULP.

Improvement in Hay-Presses.

No. 132,448.

Patented Oct. 22, 1872.

Fig. 1.



WITNESSES.

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# UNITED STATES PATENT OFFICE.

GEORGE W. D. CULP, OF EAST ENTERPRISE, INDIANA, ASSIGNOR TO HIMSELF, C. C. CULP AND G. W. CULP, OF SAME PLACE.

## IMPROVEMENT IN HAY-PRESSES.

Specification forming part of Letters Patent No. **132,448**, dated October 22, 1872.

*To all whom it may concern:*

Be it known that I, GEORGE W. D. CULP, of East Enterprise, in the county of Switzerland and State of Indiana, have invented a new and valuable Improvement in Hay-Presses; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a central vertical longitudinal section of my invention.

This invention has relation to hay-presses; and the novelty consists in the construction and novel arrangement of a curved wedge-shaped bar for depressing the follower, and the combination therewith of anti-friction rollers, all as hereinafter described.

In the drawing, A represents an upright rectangular press-frame. B represents the press-follower; C, an anti-friction roller fitted to the top thereof; D, a long bar, having its lower edge curved, as shown, so as to give the bar a wedge-shape. The shape of this bar is not, however, that of an ordinary oblique or bevel-sided wedge. The bar is drawn through slots *M* in the press-frame, between the top of the follower and the friction-rollers *e*, having their bearings therein. The upper part of the bar runs in a horizontal line in contact with the rollers *e*. The follower is depressed in consequence of the increasing width of the bar.

As will be noticed, the curvature of the lower edge of said bar begins with a concave, and thence gradually changes to a convex form. The curvature of the concave part is rather abrupt, while the curvature of the convex portion is slight and gradually diminishing. The object of this peculiar construction of said bar is to adapt its power to the work to be done. Thus when the press is filled with hay, its compression at first is easy; consequently the follower may be made to descend a considerable distance at once, as when the concave portion of the bar is in contact with the friction-roller C. As the follower descends the hay becomes dense and its compression is more difficult. Hence the convex or slightly curved portion of the edge may be used with advantage. As the convexity of the edge is gradual, the power does not require to be increased as the follower descends. The bar D may be drawn through the press-frame by horse-power or otherwise.

What I claim as my invention, and desire to secure by Letters Patent, is—

In a hay or cotton press, the combination of the curved wedge D and anti-friction rollers C *e* with the follower B, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

GEORGE W. D. CULP.

Witnesses:

HENRY L. SAGE,  
JOHN B. SAGE.