(No Model.) 2 Sheets—Sheet 1.

W. HILLMAN & J. F. RIPPLE.

BALING PRESS.

No. 397,917. Patented Feb. 19, 1889.

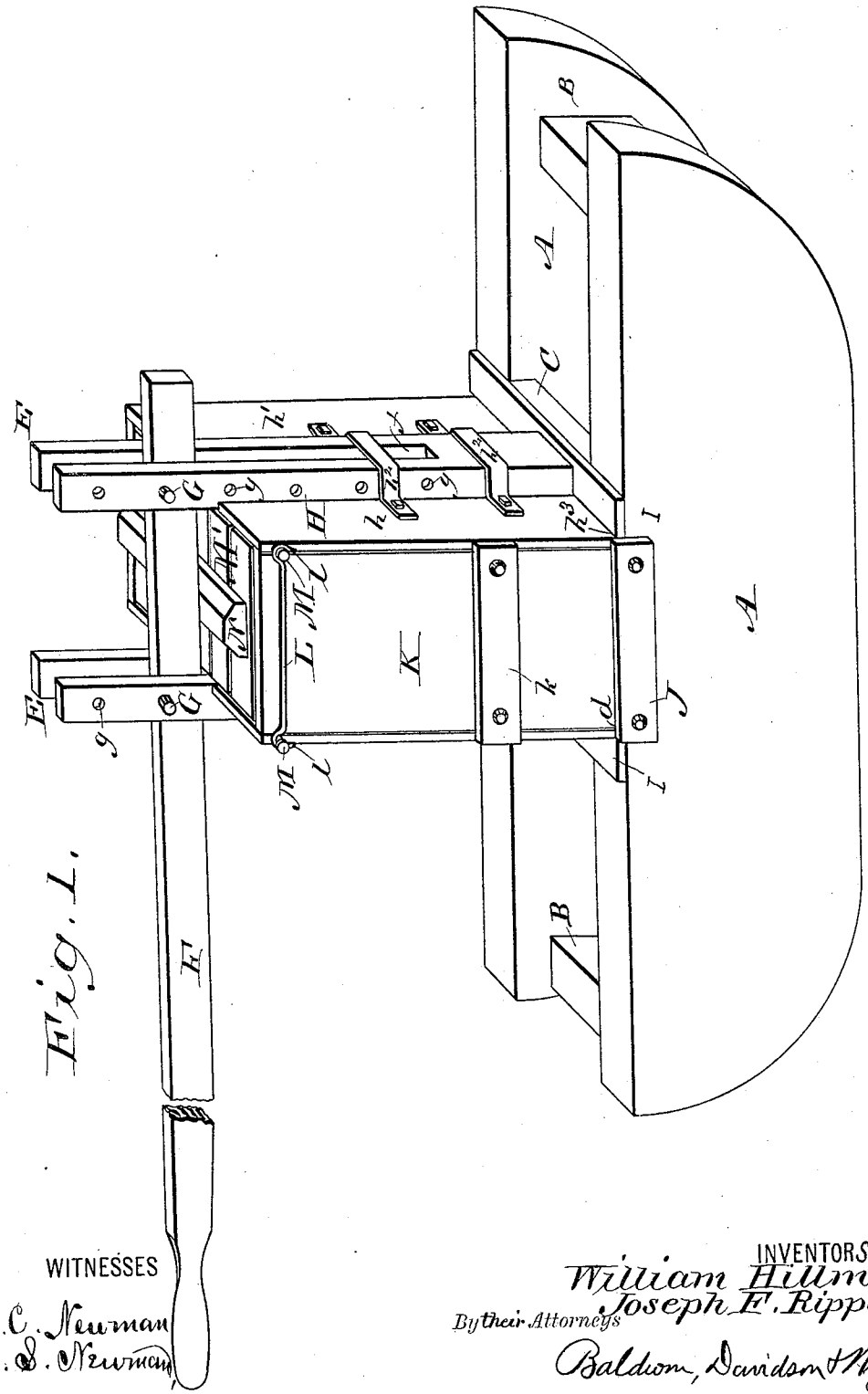


Fig. 1.

WITNESSES

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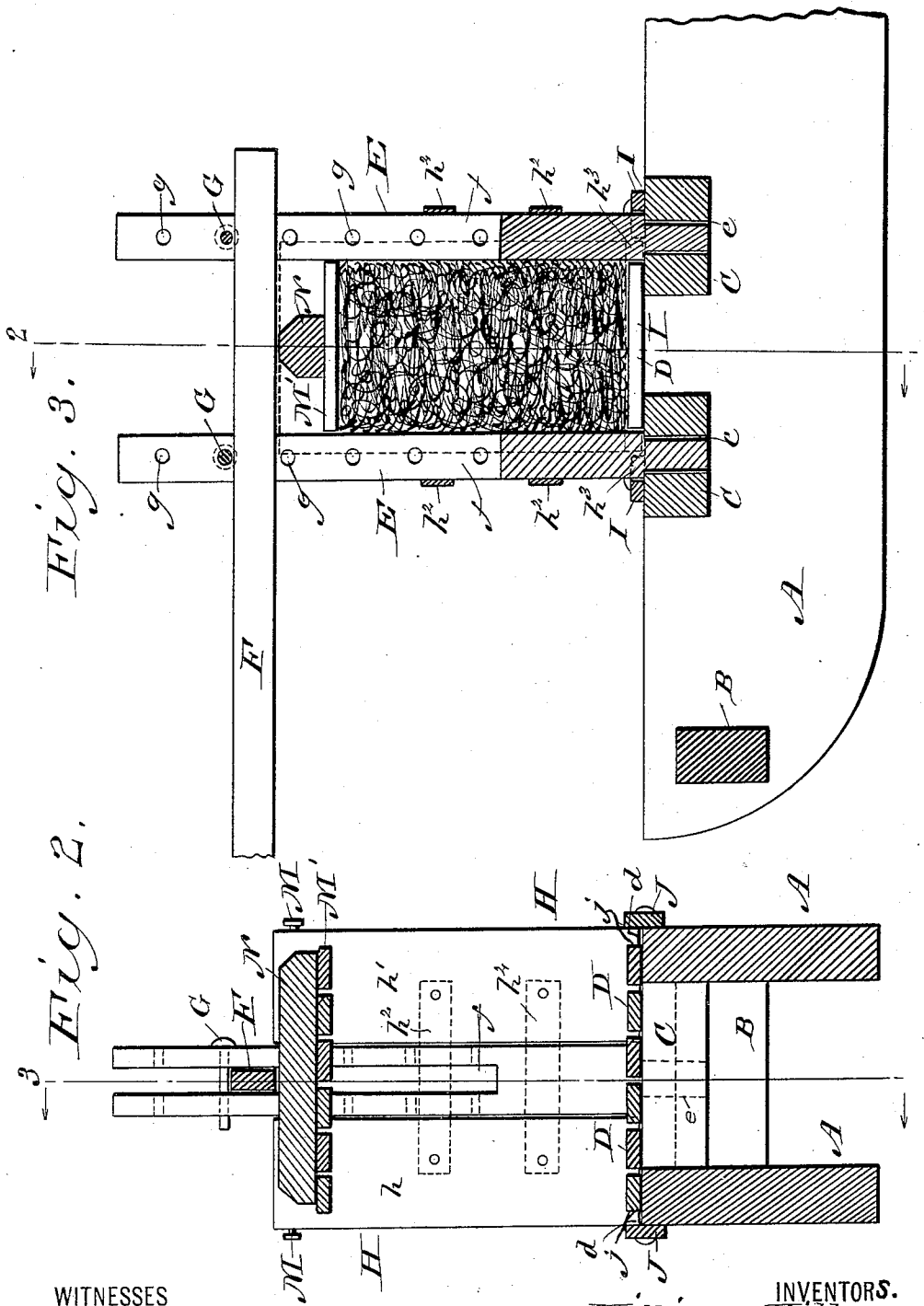
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UNITED STATES PATENT OFFICE.

WILLIAM HILLMAN AND JOSEPH F. RIPPLE, OF SCHULENBURG, TEXAS.

BALING-PRESS.

SPECIFICATION forming part of Letters Patent No. 397,917, dated February 19, 1889.

Application filed August 4, 1888. Serial No. 281,982. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM HILLMAN and JOSEPH F. RIPPLE, citizens of the United States, both residing at Schulenburg, in the county of Fayette and State of Texas, have invented certain new and useful Improvements in Presses, of which the following is a specification.

The object of our invention is to provide an improved press for baling hay and like substances.

Our special object is to make the press as simple in construction and operation as possible, of sufficient power to do the work effectively, and arranged to be readily moved from place to place at pleasure.

In the accompanying drawings, Figure 1 is a side elevation of our improved press; Fig. 2, a vertical central section on the line 2 2 of Fig. 3, and Fig. 3 a vertical central section on the line 3 3 of Fig. 2.

The press is mounted on runners A, secured together by cross-beams B at their ends and cross-beams C at the top, intermediate the ends. On the cross-beams C is secured the bed-plate D of the press. The uprights E are secured in sockets *e* in the cross-beams C and are bifurcated for the greater part of their length to receive the operating-lever F. The lever F extends through the openings *f* in the uprights and is free to be adjusted therein. The uprights are provided with a series of apertures, *g*, to receive the pins G, against which the lever bears, as will be presently described.

The side pieces H are made in two parts, *h h'*, united by straps h^2, which straddle the uprights. The lower ends of the side pieces rest in grooves h^3, formed by the edges of the bed-plate D and cross-boards I. Cross-boards J are secured to the runners A, and, with the edges *j* of the bed-plate D, form grooves or recesses *d*, in which the lower ends of the side pieces K rest.

The four side pieces of the press are secured together by means of tie-rods L, having bent ends *l*, which fit over headed pins M, secured to the edges of the side pieces H near their upper ends. The side pieces H overlap the side pieces K, which latter are provided with cross-bars *k*, that bear against the edges of the side pieces H, and, in connection with the grooves h^3 and *d*, keep the sides in an upright position. The tie-rods L not only serve to hold the sides H in an upright position, but also keep the sides K in place. When thus secured together, the sides constitute a strong and close receptacle over and around the bed-plate, and when the tie-rods are withdrawn the receptacle may be opened by removing the sides, so that the compressed hay or other substance may be readily handled.

The follower M′ may be of any suitable construction adapted to fit closely between the side pieces, H and K, and it is provided on its upper side with a cross-bar, N, made narrow at the top to form a bearing for the operating-lever.

The operation of the press is as follows: The hay or other substance is put in the receptacle between the sides H and K, and the lever F is inserted through the openings *f*, resting on the cross-piece M. A pin G is then inserted in one of the apertures just over the lever, and the opposite end of the lever is depressed. This operation forces down the follower and compresses the hay to some extent. A pin G is then inserted through the apertures just over the depressed end of the lever, and the other end of the lever is depressed and the follower is forced down. The pins form bearings for the outer ends of the lever at each depression. By continuing this operation the hay or other substance may be tightly compressed, and the compressed substance may be readily removed from the press by taking down the side pieces.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent of the United States, is—

1. The combination, substantially as hereinbefore set forth, of the runners, the bed-plate mounted thereon, the bifurcated uprights having apertures, as described, the pins that fit in the apertures, the independent removable side pieces H, and the independent removable side pieces K, the removable connections for securing the side pieces, H and K, together at the top, the follower, and the lever extending centrally across the follower

for depressing it and projecting laterally through the bifurcated uprights and bearing upon the pins.

2. The combination, substantially as hereinbefore set forth, of the bed-plate, the side pieces H, made in two parts, h h', the straps h^2, for securing them together, the uprights straddled by the straps h^2, the side pieces K, the tie-rods for securing the side pieces, H and K, together at the top, the follower M′, the cross-bar N, secured to the top of the follower and made narrow at the top to form a bearing for the operating-lever, the bifurcated uprights, the operating-lever extending through the bifurcated uprights centrally across the cross-bar N, and the pins against which the operating-lever bears.

In testimony whereof we have hereunto subscribed our names.

WILLIAM HILLMAN.
JOS. F. RIPPLE.

Witnesses:
W. A. THULEMEYER,
E. C. KAUFFMAN.