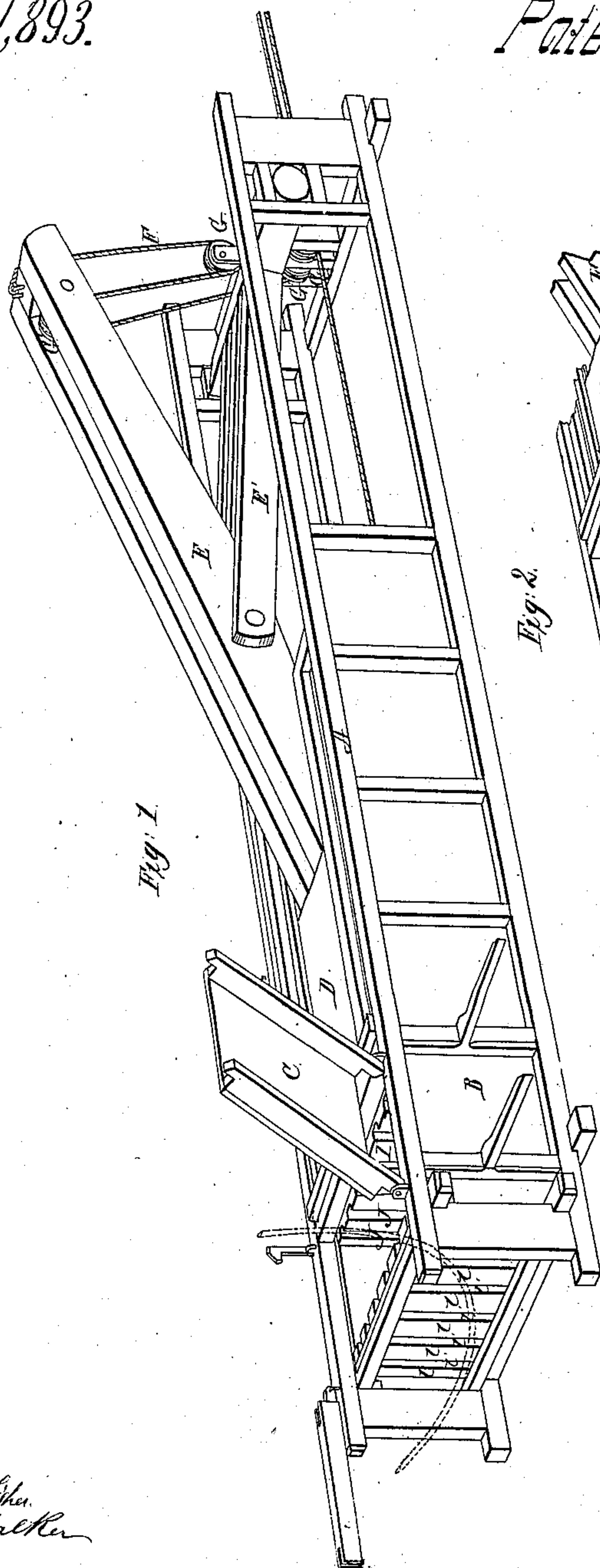


*Ridenour & Biser,*

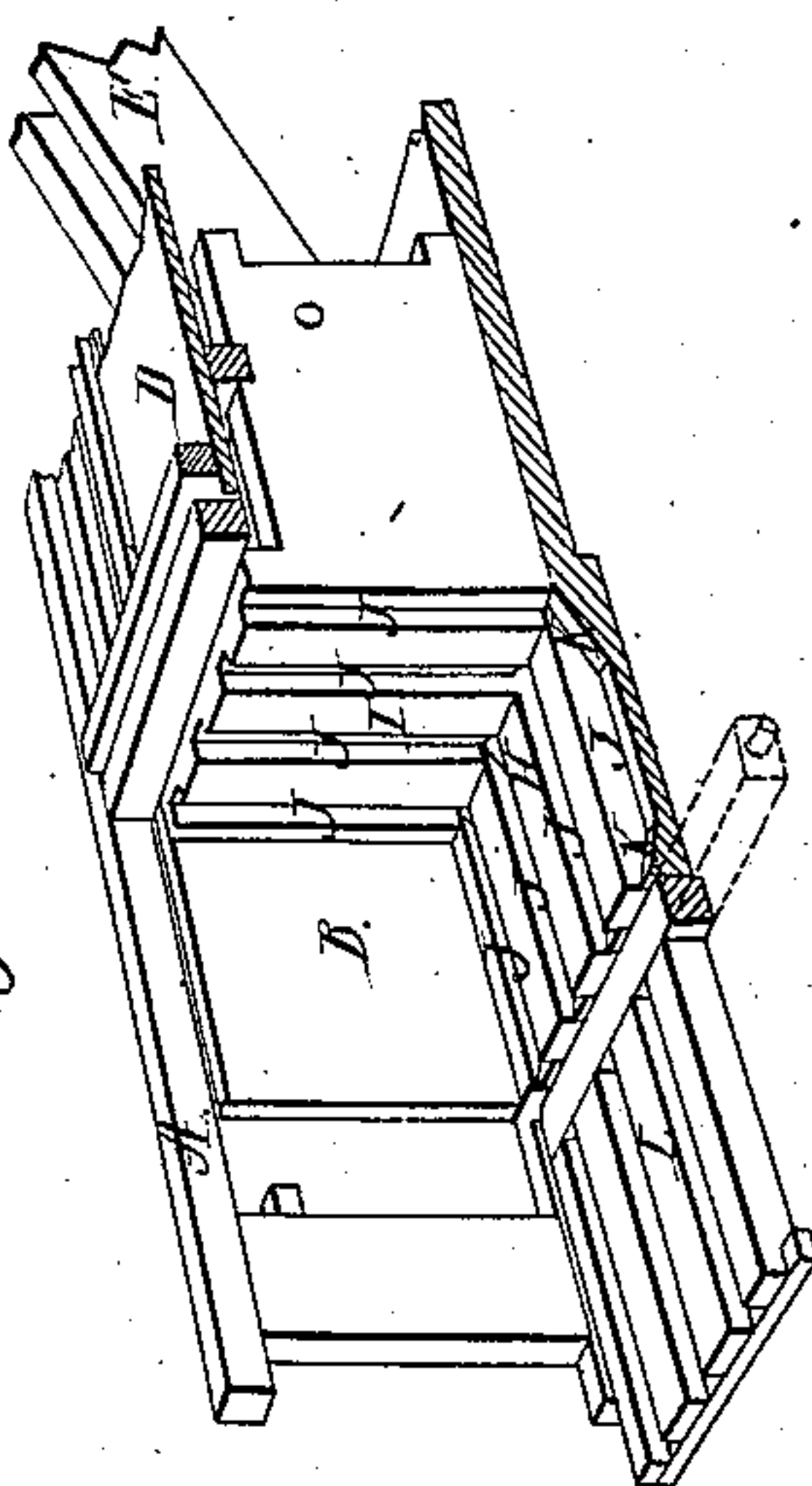
*Hay Press.*

*N<sup>o</sup> 41,893.*

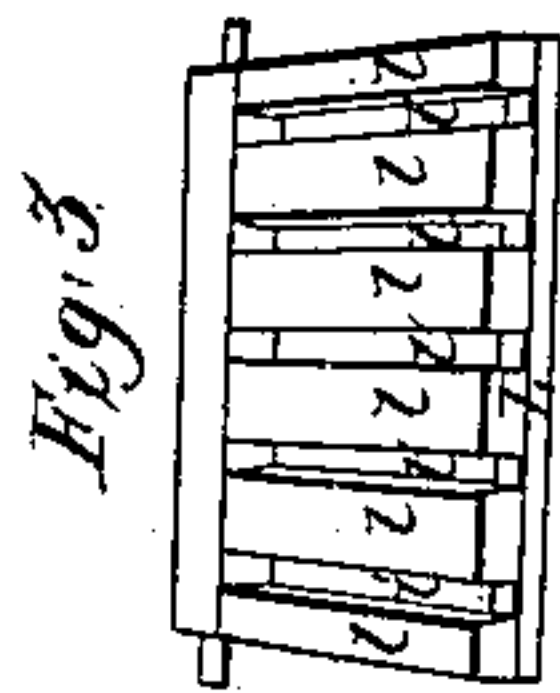
*Patented Mar. 8, 1864.*



*Fig. 1.*



*Fig. 2.*



*Fig. 3.*

*Attest:  
Charles L. Fisher.  
Sydney Walker*

*Inventors.  
W. Ridenour  
M. R. Biser  
W. H. Wright & Co.  
attys*

# UNITED STATES PATENT OFFICE.

WM. RIDENOUR AND MAHLON K. BISER, OF SPRINGFIELD, OHIO, ASSIGNORS  
TO THEMSELVES AND GEORGE FEY.

## IMPROVEMENT IN HAY AND COTTON PRESSES.

Specification forming part of Letters Patent No. 41,893, dated March 8, 1864.

*To all whom it may concern:*

Be it known that we, WILLIAM RIDENOUR and MAHLON K. BISER, both of Springfield, Clark county, Ohio, have invented a new and useful Improvement in Baling-Presses; and we do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

Our invention chiefly relates to a provision to facilitate the hooping of the bale.

Figure 1 is a perspective view of a press embodying our improvement. Fig. 2 represents the rear end of the press in its open condition. Fig. 3 shows the discharging-door detached.

The frame A, yielding sides B, upper doors, C and D, and toggle E E' may be essentially the same as described in the patent for improvement in hay and cotton presses, granted William Ridenour on the 10th day of March, 1863. The rope F is attached at the upper extremity of the long arm E of the toggle, and in line with the sheave G immediately beneath it, and the sheaves G G' G'' G''' are so arranged as for the power to be applied substantially in a single plane longitudinal of the press. By the above arrangement we avoid the diagonal strain and indirect application of power which results from attaching the cord on one side of the toggle. The floor H and follower I are channeled longitudinally, J, to permit the insertion of the hoops. The passage of the hoops

past the bale-corners is facilitated by slanting blocks K at the ends of the channels J in the floor H, which, by deflecting the ends of the hoops, act to conduct them past the corners. In order still further to facilitate the application of the hoops, we give our end or discharging door, L, the form of a grating composed of vertical bars l, separated by interstices l'. The interstices l' allow the advancing end of the hoop to pass out in front, (see red lines in Fig. 1,) where, being grasped by one of the operators, it is drawn taut and returned through the upper part of the grating, to be fastened. The end door, L l', is hinged to the frame, as in the Ridenour patent aforesaid.

We claim herein as new and of our invention—

1. In a horizontal baling-press of the construction specified, the hinged and grated discharge-door L l', applied and operating in combination with grooves J J, in the manner and for the purposes set forth.

2. In combination with the above, the slanting blocks K K at the ends of the floor-channels J, for the object specified.

In testimony of which invention we hereunto set our hands.

WM. RIDENOUR.  
M. K. BISER.

Witnesses:

GEO. H. KNIGHT,  
J. KREIDER MOWER.