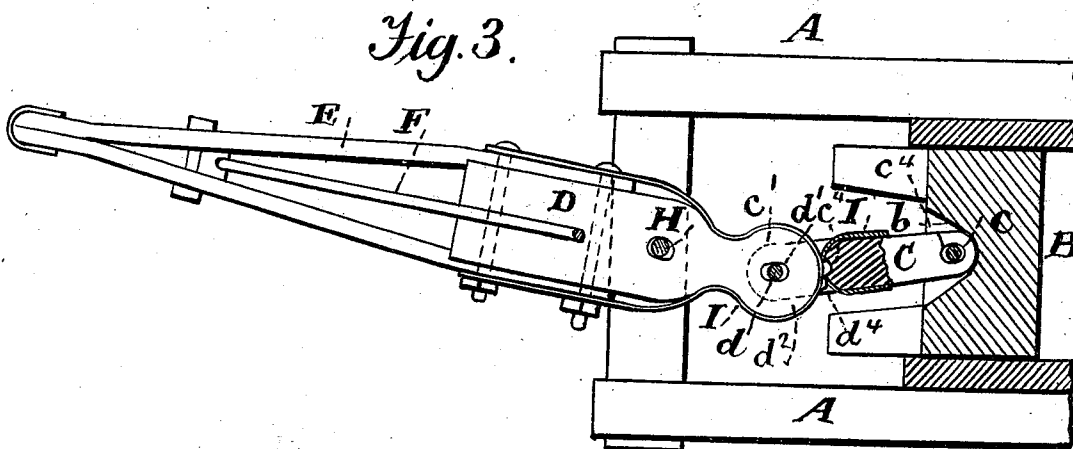
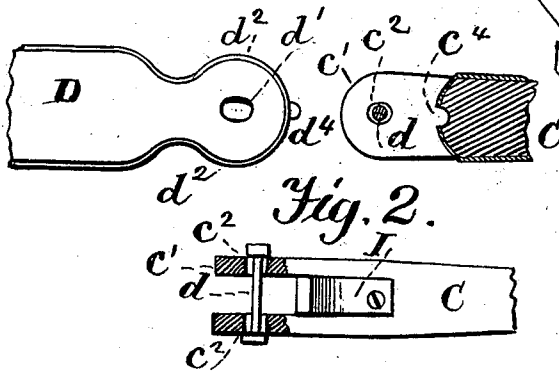
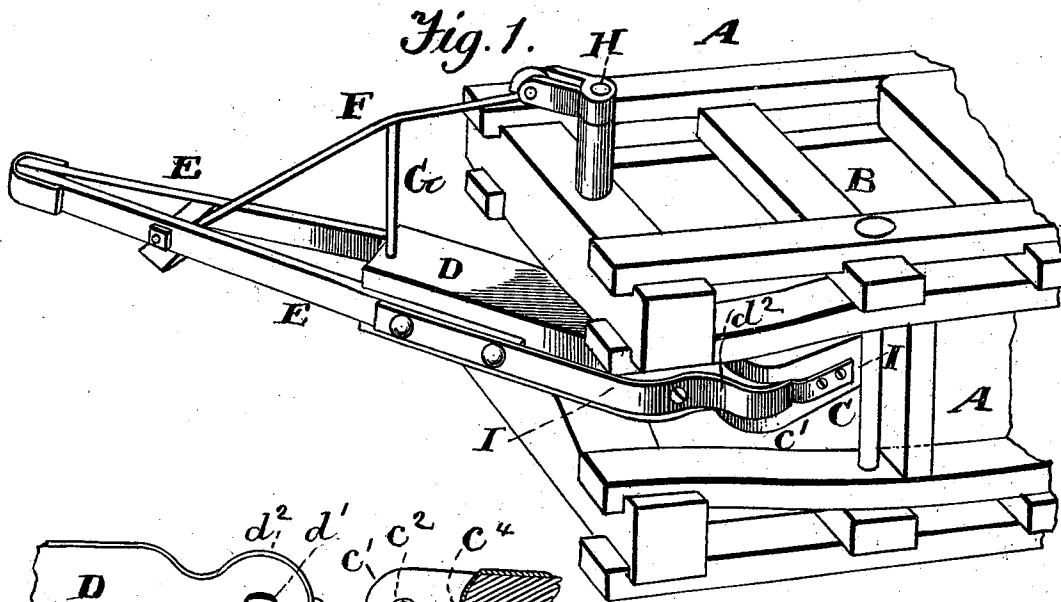


(No Model.)

J. M. BISHOP.
BALING PRESS.

No. 563,441.

Patented July 7, 1896.



Witnesses.
A. Ruppert.
A. A. Daniels

Inventor.
John M. Bishop,
Per
Thomas P. Simpson
att'y.

UNITED STATES PATENT OFFICE.

JOHN MAJOR BISHOP, OF HUNTSVILLE, ALABAMA.

BALING-PRESS.

SPECIFICATION forming part of Letters Patent No. 563,441, dated July 7, 1896.

Application filed September 25, 1895. Serial No. 563,571. (No model.)

To all whom it may concern:

Be it known that I, JOHN MAJOR BISHOP, a citizen of the United States, residing at Huntsville, in the county of Madison and State of Alabama, have invented certain new and useful Improvements in Baling-Presses; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The special object of the invention is to make the toggles of baling-presses work more smoothly and with less frictional wear.

Figure 1 of the drawings is a perspective view showing the invention applied. Fig. 2 shows a number of detail views, and Fig. 3 a horizontal section.

In the drawings, A represents the press; B, the follower; C D, the toggle-arms, and E the lever by which the toggle is operated.

F is a lever-brace supported on an upright G, and H a pin which holds the lever-arm D.

c d are pins on which the toggle-arms turn, and d' a hole through which passes the pin H.

c' d'' are the toggle-arm-contacting heads.

The ends of the arms C D are rounded and faced with metal which will take up wear

and be readily replaceable. The pin d is allowed some play, so that when the heads are approaching alinement the strain will be thrown upon the head c' , whose pin c has a corresponding play. This transfers the strain to the follower-socket b and the press operates with much less frictional wear. At the middle of the curve of the heads c' d'' are formed, respectively, the concavity c^4 and projection d^4 , the latter to work in the former, so that the toggle-arms may more exactly aline and with less friction.

What I claim as new, and desire to protect by Letters Patent, is—

In the operative mechanism of baling-presses, two toggle-arms having play on their joint-pins and provided with rounded convex heads, one head having a concavity and the other a convexity fitting therein, at the point of greatest convexity, whereby a maximum of power is obtained with a minimum of strain on the joint-pins, while the mechanism works with a continuously smooth action, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN MAJOR BISHOP.

Witnesses:

J. H. MCANELLY,

J. R. JOHNSON.