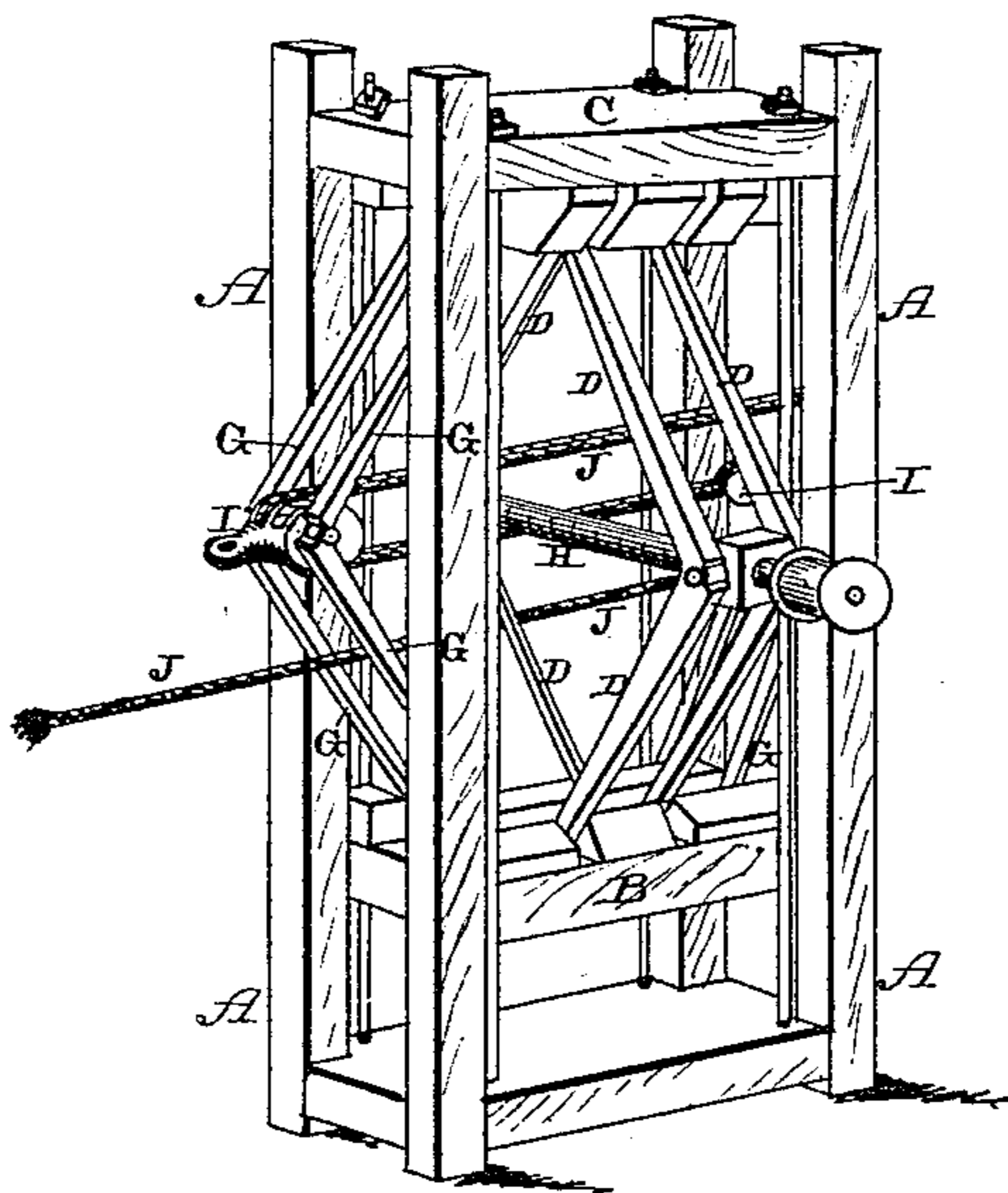


(No Model.)

J. M. DREW.  
COTTON AND COTTON SEED PRESS.

No. 364,995.

Patented June 14, 1887.



Witnesses.  
X. F. Gardner  
Edm. P. Ellis.

Inventor.  
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per J. A. Lehmann, atty.

# UNITED STATES PATENT OFFICE.

JOHN MELVIN DREW, OF WASHINGTON, TEXAS.

## COTTON AND COTTON-SEED PRESS.

SPECIFICATION forming part of Letters Patent No. 364,995, dated June 14, 1887.

Application filed April 25, 1887. Serial No. 236,009. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN MELVIN DREW, of Washington, in the county of Washington and State of Texas, have invented a certain new and useful Improvement in Cotton and Cotton-Seed Presses; and I do hereby 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 pertains to make and use it, reference being had to the accompanying drawing, which forms part of this specification.

My invention relates to an improvement in cotton compresses and cotton-seed presses; and it consists in the combination of a suitable frame-work, the follower, two sets of toggle-arms which are operated by a screw, and two sets of toggle-arms which extend at right angles to the two sets which are operated by the screw, and which second set are operated by a rope and tackle, as will be more fully described hereinafter.

The object of my invention is to produce a very powerful press in which the follower is operated by four sets of toggle-joints, two of which are operated by a screw and the other two by a rope and tackle, so as to produce twice the amount of power usually exerted in toggle-joint presses.

The accompanying drawing represents a perspective of a press embodying my invention.

A represents a suitable frame-work; B, the follower, and C the stationary head in the frame-work. Pivoted both to the under side of the stationary head C and to the top of the follower B are the four sets of toggle-arms D G, the two pairs D being operated by the screw H, in the usual manner. The two pairs

of arms G extend at right angles to the ones D, and are provided with tackle I, around which the rope J is passed. There will be any desired number of pulleys in the tackle I, so as to enable any desired leverage to be applied to the arms G through the rope J. This rope J extends away to any suitable drum or operating mechanism, and the screw H is operated by a belt, which passes around a suitable pulley upon the end of screw-driving shaft. When the engine is set in motion, the screw H is made to operate the two sets of arms D at the same time that the arms G are operated by the rope J. Power being applied to each set of arms, they operate together in forcing the follower downward, and thus exert double the amount of pressure which is usually employed in presses of this kind. The screw H serves to retract the follower and hold the parts rigidly in any desired position. While the screw is being operated to raise the parts the rope J is slackened, so as to allow the two sets of arms G to freely separate under the action of the screw.

Having thus described my invention, I claim—

In a press, the combination of the four sets of toggle-arms, the screw H, the tackle I, and the rope J, the screw being made to operate two sets of the arms, and the rope J, extending at right angles to the screw, being made to operate the other two pairs, substantially as shown and described.

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

JOHN MELVIN DREW.

Witnesses:

FAYETTE SMITH,  
C. P. MONROE.