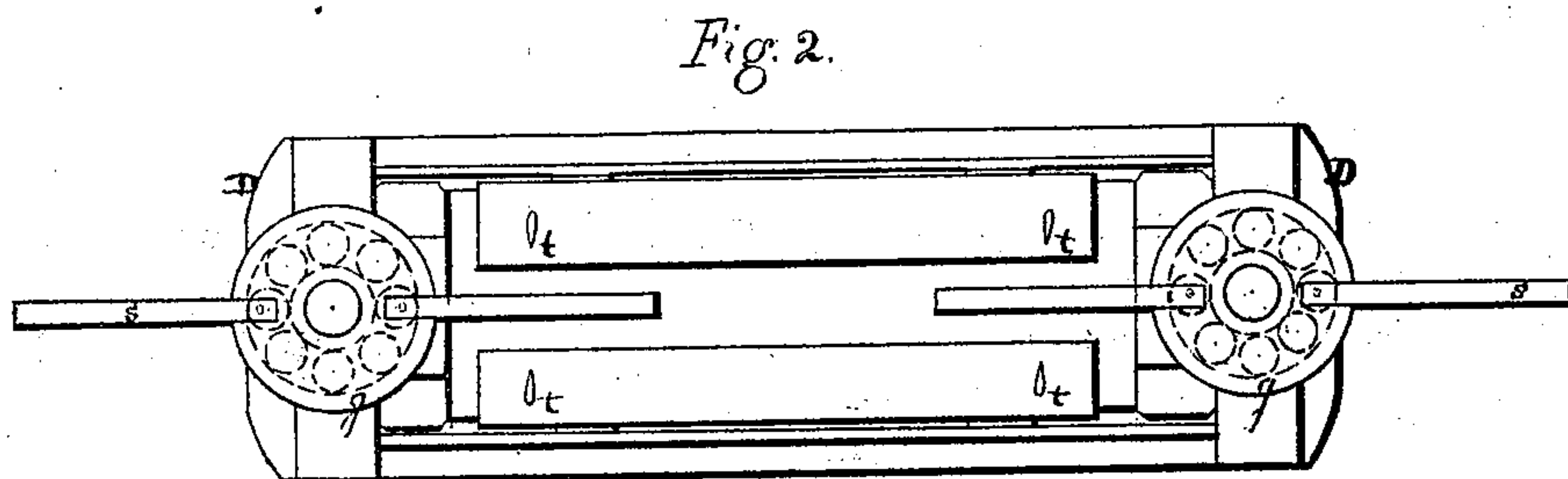
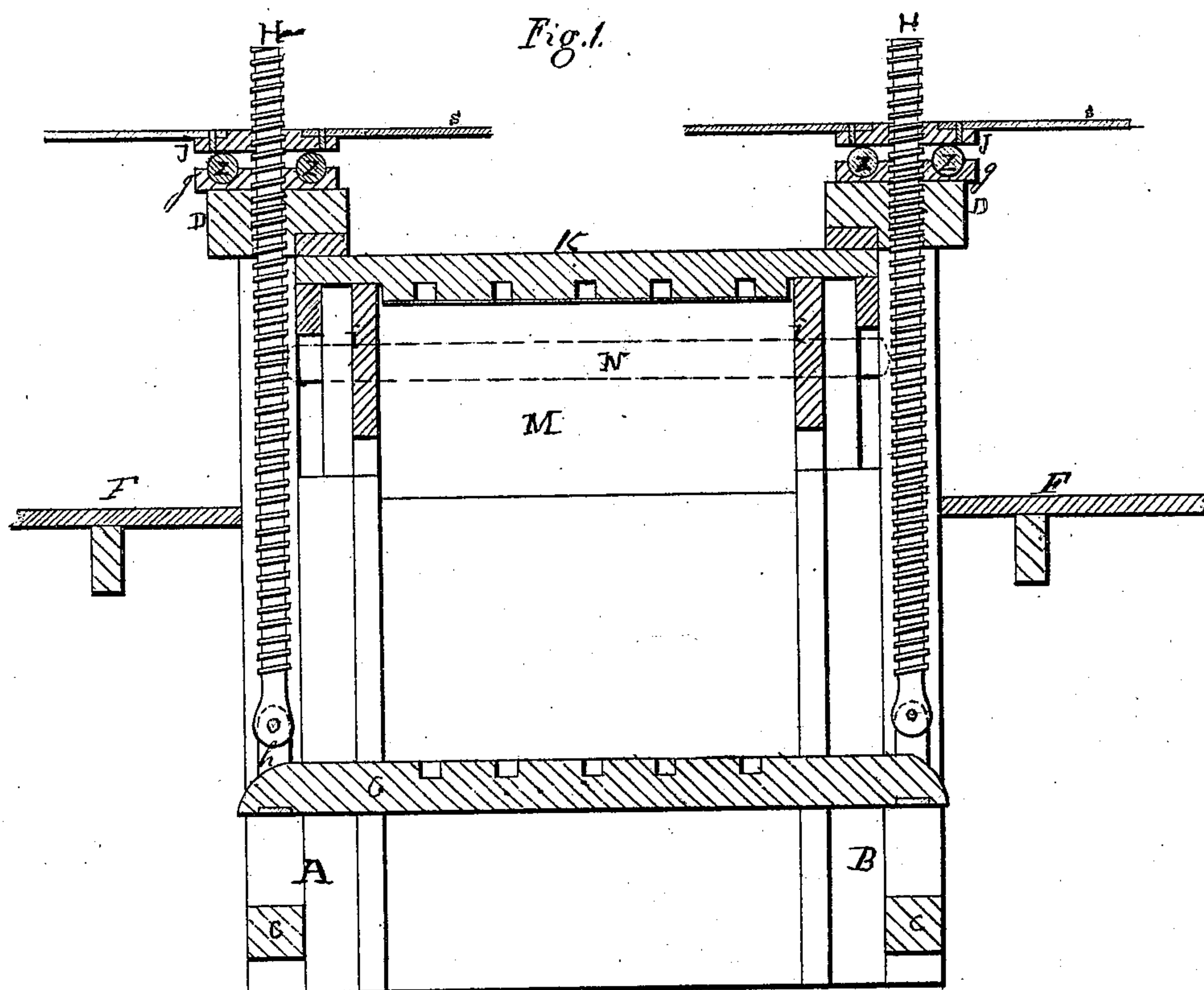


C. A. Caldwell,

Cotton Press

No. 95563.

Patented Oct. 5. 1869.



Witnesses

Henry H. Miller.  
John A. Ellis.

Inventor

C. A. Caldwell  
Per  
J. H. Alexander,  
Atty.

C. A. Caldwell,

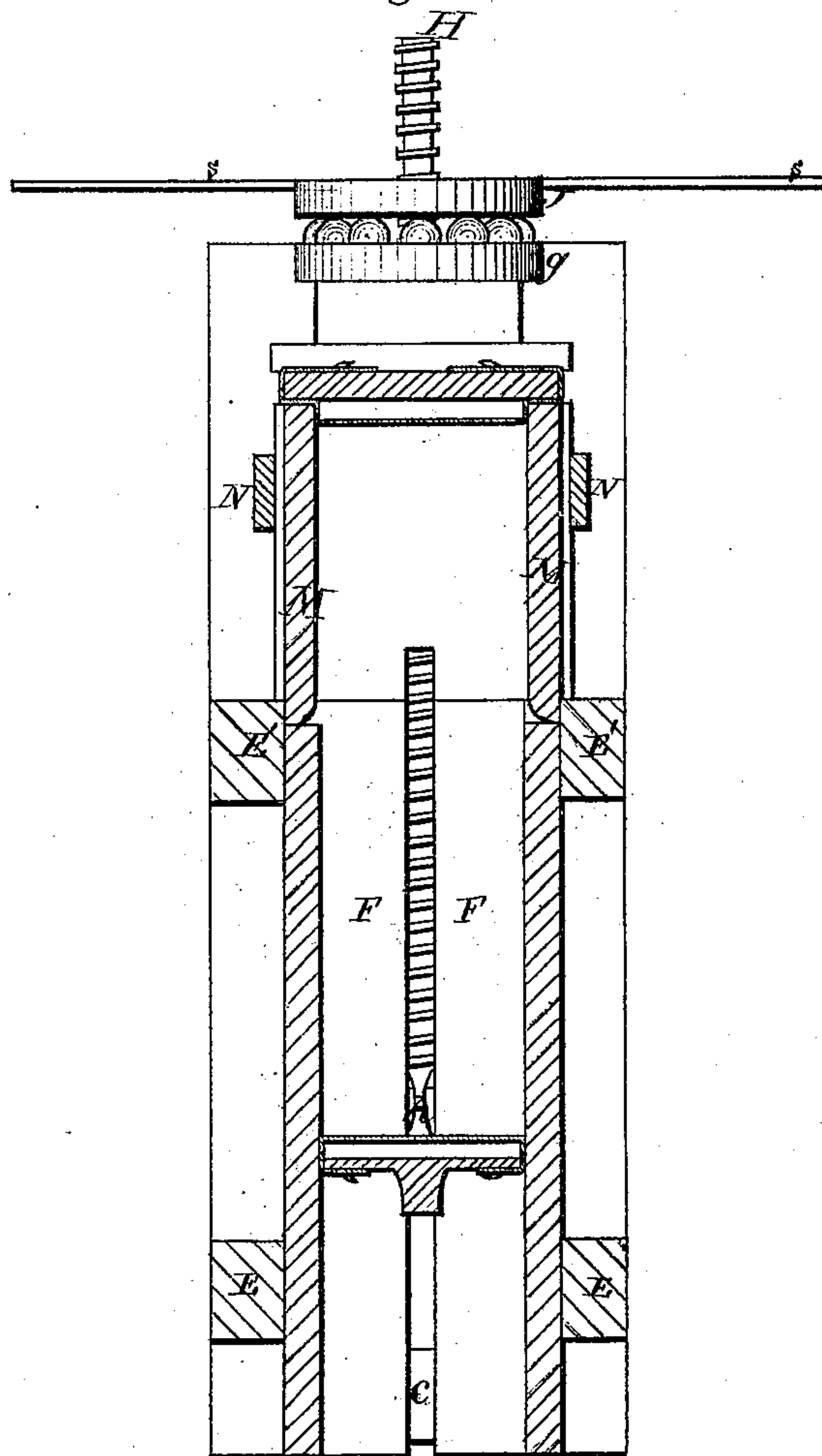
2. Sheets. Sheet 2.

Cotton Press.

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Fig. 3.



Witnesses

Henry M. Miller

John A. Ellis

Inventor

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Per

J. H. Alexander

Atty



# UNITED STATES PATENT OFFICE.

C. A. CALDWELL, OF CONCORD, NORTH CAROLINA.

## IMPROVEMENT IN COTTON-PRESSES.

Specification forming part of Letters Patent No. 95,563, dated October 5, 1869.

*To all whom it may concern:*

Be it known that I, C. A. CALDWELL, of Concord, in the county of Cabarrus and State of North Carolina, have invented certain new and useful Improvements in Cotton-Presses; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification, in which—

Figure 1 represents a longitudinal vertical section of my press. Fig. 2 is a plan view of the same. Fig. 3 is a transverse and central vertical section.

The nature of my invention consists in an improved arrangement of the several operating parts of a vertical-screw cotton-press, as hereinafter more particularly set forth.

The body of my press is made of the two frames A and B, which are securely fastened together at top by the ties D D, (see Fig. 2,) and at bottom by ties C.

E E and E' E' designate the ties that bind each of the frames A and B longitudinally. The two frames A and B will be sufficiently far apart to receive a bale of cotton between them, and also to admit of the guides F F.

G represents the press-beam, to each end of which is fastened a screw, H, by means of stirrup-iron h. On the top of tie D is placed the metal wheel g, which has on its upper surface a concave groove, the object of which will be hereinafter explained.

J represents a circular nut corresponding in size with wheel g, and furnished at opposite sides with levers s s. The screws H, it will be seen, pass through these corresponding wheels g and nuts J. To facilitate the operation of the nuts J when in the act of pressing a cotton-bale, a series of metal balls will be placed in the groove in wheel g, which greatly diminishes the friction of the nut J.

k designates a press-board, the ends of which rest on cleats nailed securely to the inner side of frames A and B. The press-board k has slats secured to its under surface, space being left between said slats to receive the ties used in baling the cotton.

II designate the adjustable end pieces which confine the cotton-bale, and have a slot at bottom through which the band can pass lengthwise of the cotton-bale. The press-beam G, it

will be observed, is made the width of the cotton-bale in that portion of it that extends between the end pieces, I I, and has lateral depressions for receiving the ties.

M represents the adjustable gates for confining the sides of the cotton-bale, a groove being cut in one of the corner-posts of the frames A and B, through which one end of the bars N that bind said gates can be removed, and the gates taken out in order to fill the press with cotton. The press-board k is supplied with hooks t t, for holding the material for baling until the pressing operation is completed.

F represents the floor of the lint-room, through which an opening is made to receive the press up to the point represented in Fig. 1, the object of which is to bring the said press in a convenient position for manipulation.

In operating my press one of the gates M will be removed, the press-board k elevated by the reverse action of screws H, and the necessary quantity of cotton introduced into the press, the ties having been previously inserted in the grooves in K and beam G. The gate will now be replaced and secured by bar N and the screws operated to the required degree. The gate M will now be removed and the ties fastened in the usual manner.

One of the advantages of my press is that it can be used perfectly in an ordinary-sized lint-room.

Having thus described my invention, I do not claim as new the several devices above described, nor any general combination of the same; but

What I do claim, and desire to secure by Letters Patent, is—

The improved arrangement, in the cotton-press above described, of the parts herein shown, consisting of the frames A B, gates M, adjustable bars N, press-beam G, screws H H, bearings y y, friction-rollers z z, and nuts J J, when said parts are constructed and arranged to operate in the manner and for the purpose described.

In testimony that I claim the foregoing as my own I affix my signature in the presence of two witnesses.

C. A. CALDWELL.

Witnesses:

CHAS. F. HARRIS,  
W. H. KESTLER.