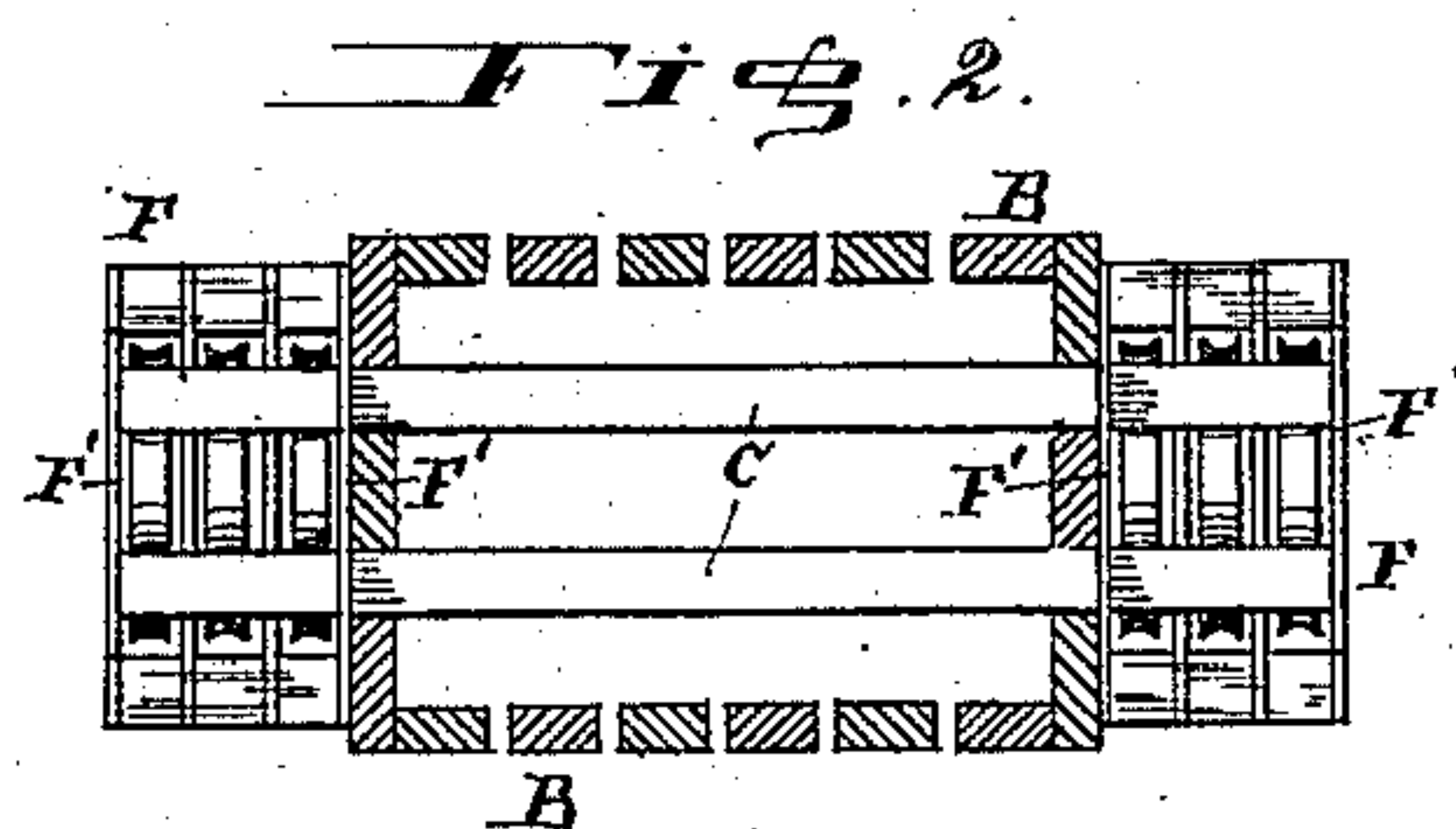
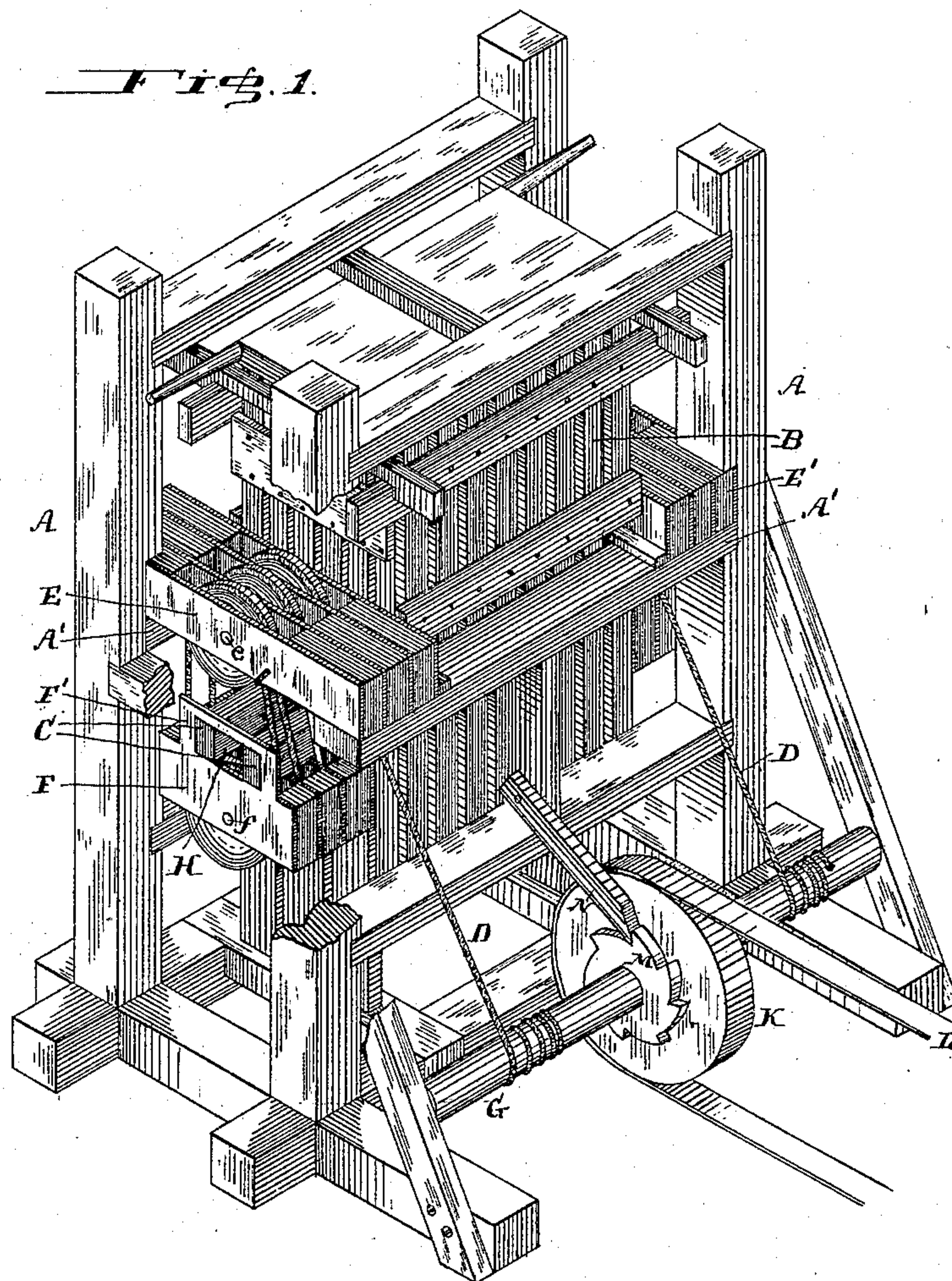


(No Model.)

A. McKAY.
COTTON PRESS.

No. 290,696.

Patented Dec. 25, 1883.



WITNESSES

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UNITED STATES PATENT OFFICE.

ALEXANDER McKAY, OF LOUISVILLE, ALABAMA.

COTTON-PRESS.

SPECIFICATION forming part of Letters Patent No. 290,696, dated December 25, 1883.

Application filed August 22, 1883. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER McKAY, a citizen of the United States, residing at Louisville, in the county of Barbour and State of Alabama, have invented certain new and useful Improvements in Cotton-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 appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in cotton-presses in which the follower is advanced by means of a system of ropes and pulleys; and it consists of an improved construction and arrangement of parts, as is hereinafter described and claimed, by which I provide a cheap and powerful press which can do the same work with a less expenditure of power than other presses of its class heretofore used.

Figure 1 is a perspective view of a cotton-press which embodies my invention, a portion of the frame being broken away to expose the pulley-block frames. Fig. 2 is a horizontal section taken through the press-box just above the timbers on which the follower rests, the frame of the press being omitted.

The frame of the press is represented by A, B being the press-box, and C the timbers supporting the follower. The follower is raised by rope D, which passes alternately around the sheaves of the pulley-frames E and F, and then around the shaft G, which extends across in front of the press.

The essential feature of my invention consists in the construction of the pulley-frames and in the arrangement of the sheaves with respect to the press-box. I arrange the sheaves of each pulley-frame so that they turn on common pintles, *e* and *f*, which are in line lengthwise with the press-box and in a vertical plane through its center, the sheaves being parallel with the ends of the press-box, in order that the rope D can pass directly from the last sheave down to the shaft G. The pulley-frames are preferably made with mortises for

three pulleys each, the pulleys being of iron and of about ten inches in diameter and turning on common pintles, *e* and *f*. The upper pulley-frames, E, are supported by having their ends rest on the cross-timbers A' of the frame, and they are also mortised into the upright corner timbers of the frame, as clearly shown at E', in order to bring their points of support close in to the upright timbers. The lower pulley-frames, F, are constructed with extensions F' to their cheeks above the frames, and a slot, H, or sockets are formed in these extensions, to receive the ends of the follower-timbers C, so that the pulley-frames F are hung from the ends of the timbers C. Iron straps passing over the timbers C and bolted to the pulley-frames F would answer the same purpose. The shaft G carries a large driving-pulley, K, from which a belt, L, runs to the engine, or whatever power is employed. The ratchet M and pawl N, if the press is stopped before the follower is run up, hold whatever advance has been made and prevent any loss by slipping of the belt.

If power is not available for running the press, it can be run by hand by placing a rope around the driving-pulley K. One strong man can pack a bale of cotton in a very short time.

Having thus described my invention, what I claim as new is—

1. In a cotton-press, the combination, with the press-box and follower, of the upper pulley-frames, E, attached to the frame of the press, and the lower pulley-frames, F', carried by the follower, having their sheaves parallel with the ends of the press-box, the windlass G, arranged in front of the press-box, and the ropes D, passing directly from the last sheaves to said windlass, as and for the purpose set forth.

2. In a cotton-press, the pulley-frame F, having extensions F' and slots or sockets H, in combination with the follower-timbers C, substantially as and for the purpose set forth.

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

ALEX. McKAY.

Witnesses:

J. A. McLENNAN,
SANDY MARTIN.