J. C. Sellers,

Cotton Press.

No. 29,827. Patented Aug. 28, 1860.

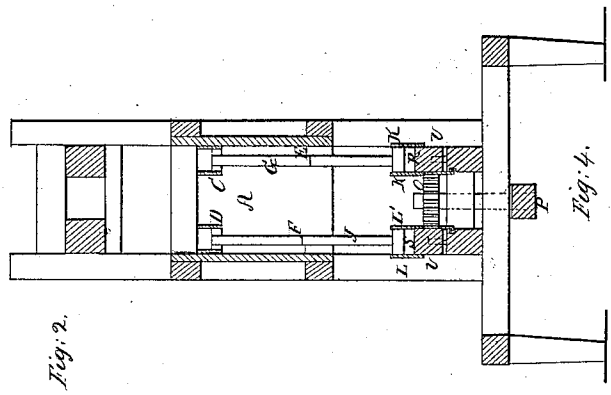

Fig. 2.

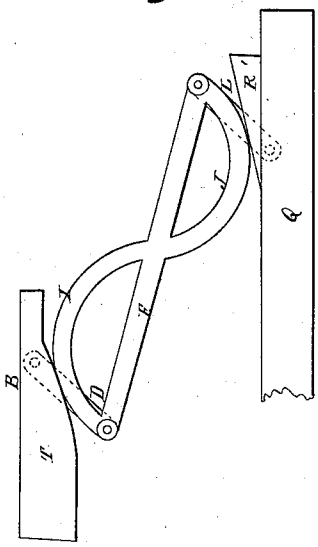

Fig. 4.

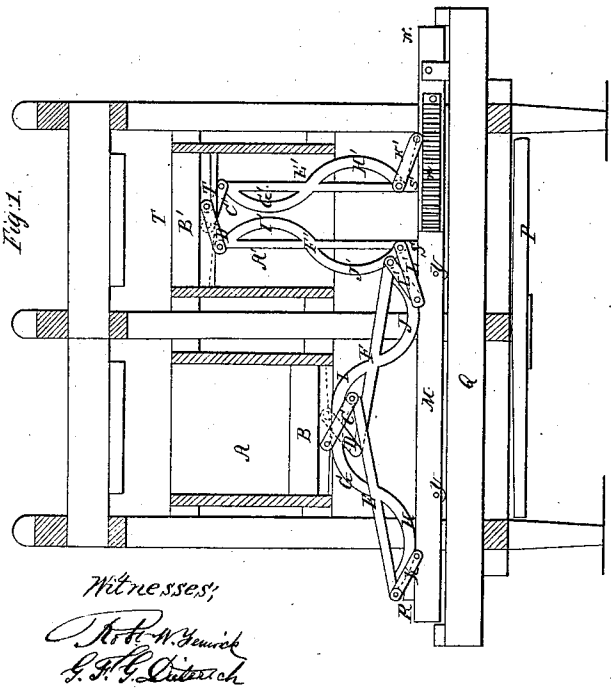

Fig. 1.

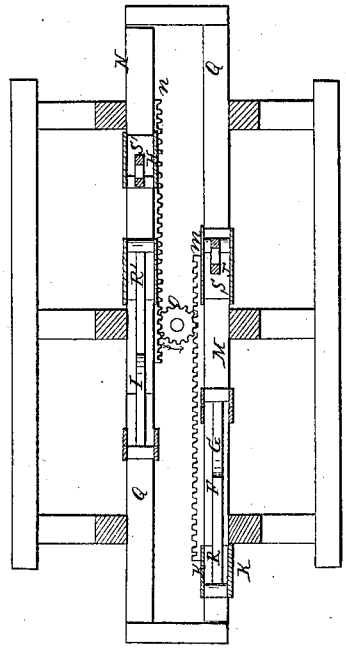

Fig. 3.

Witnesses:
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UNITED STATES PATENT OFFICE.

J. C. SELLERS, OF WOODVILLE, MISSISSIPPI.

IMPROVEMENT IN COTTON-PRESSES.

Specification forming part of Letters Patent No. **29,827**, dated August 28, 1860.

To all whom it may concern:

Be it known that I, J. C. SELLERS, of Woodville, in the county of Wilkinson and State of Mississippi, have invented a new and useful Improvement in Cotton-Presses; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of specification, in which—

Figure 1 represents a vertical longitudinal section of my press; Fig. 2, a vertical cross-section; Fig. 3, a horizontal section, and Fig. 4 a side view of a detached part of the machine.

Similar letters of reference indicate corresponding parts in each of the several figures.

The nature of my invention consists in the combination of one or two press-boxes, and two followers with two rack-bars, and center cog-wheel, when the followers are connected to said rack-bars by means of cam-levers, links, and inclined planes, in the manner and for the purposes hereinafter described.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

The drawings represent a press provided with two press-boxes; but if it should be preferable to have a single press the second press-box, with its cam-levers and other appurtenances, can be dispensed with.

A A′ are the two press-boxes, and B B′ are the two followers. Each follower is connected to two rack-bars, M *m* N *n*, by means of two cam-levers, E G H I F J and E′ G′ H′ I′ F′ J′, one of the cam-levers of each follower being connected to rack-bar M *m*, while the other is connected to the other rack-bar, N *n*. The ends of the cam-levers are attached to the bottoms of the followers and to the rack-bars by links C D K L and C′ D′ K′ L′, as seen in Fig. 1, and the top surfaces of the rack-bars and the bottoms of the followers are provided with inclined planes R S R′ S′ T, against which the ends of the cam-levers are, by means of the links, held and made to bear during the process of operating the press. The two rack-bars are provided with friction-rollers W, with which they travel on horizontal ways 2 2. A center cog-wheel, O, is placed between the two rack-bars, and gears with the toothed inner surfaces of both rack-bars. Lever P serves to operate the cog-wheel O.

It will be seen that on turning the cog-wheel either way the rack-bars will travel in opposite directions, so as to move the lower ends of the two cam-levers of one follower toward each other, while those of the other follower are being moved apart. Thus one follower will be made to rise while the other follower descends, and vice versa.

The object of the inclined planes R S R′ S′ T is, first, to take off part of the strain which would otherwise come on the links by serving as a bearing for the cam-surfaces G H I J and G′ H′ I′ J′ of the levers E F E′ F′; and, secondly, to increase the lift of the follower. This will be easily understood from an inspection of the cam-levers E′ F′ in Fig. 1. In this position of the cam-levers, corresponding to the greatest lift of follower B′, it will be seen that the elevation of the follower above the rack-bars is not only equal to the whole vertical length of the cam-levers, but is equal to that length plus the greatest height of both the incline of the rack-bar and of the follower. Thus, by means of the above arrangement I obtain a press which works with great ease and lifts the follower or followers higher than other presses of equal leverage.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination of one or two press-boxes, A A′, and two followers, B B′, with two rack-bars, M *m* N *n*, and center cog-wheel, O, when the followers are connected to said rack-bars by means of cam-levers E G H I F J E′ G′ H′ I′ F′ J′, links D C K L D′ C′ K′ L′, and inclined planes R S R′ S′, as and for the purpose herein described.

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Witnesses:

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