D. S. McBRYDE.

Cotton-Press.

No. 169,183. Patented Oct. 26, 1875.

Fig: 1.

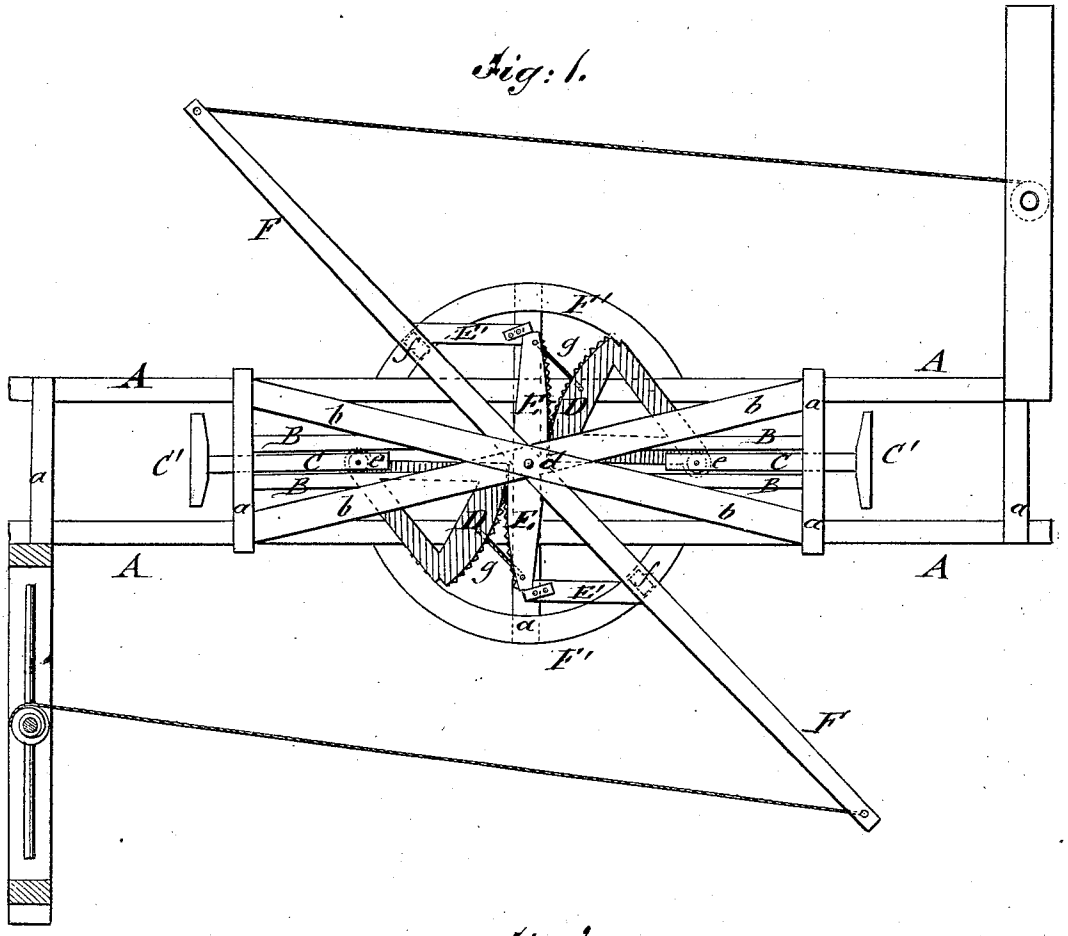


Fig: 2.

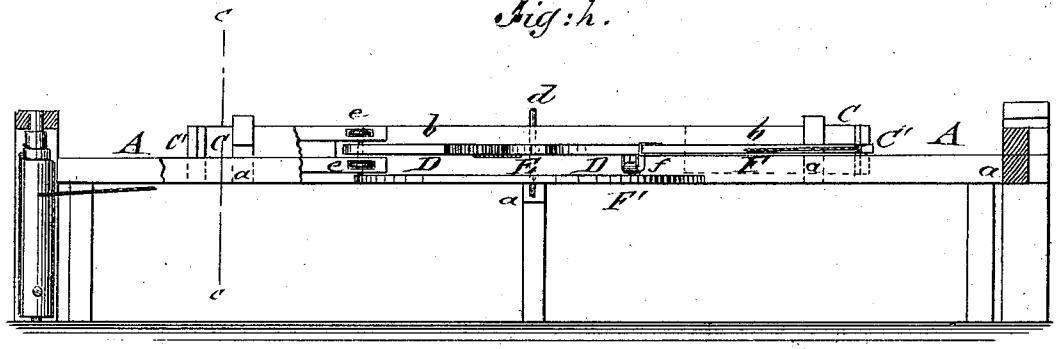
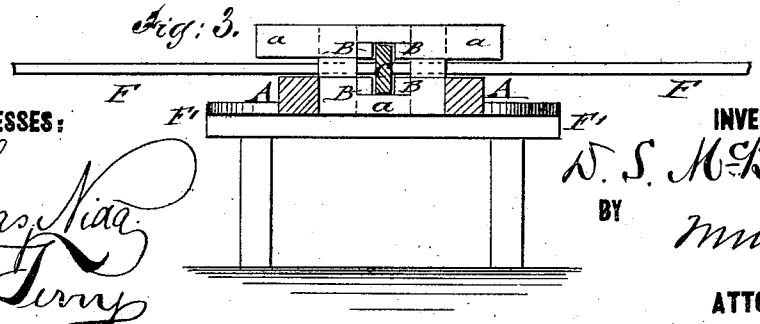


Fig: 3.



WITNESSES:

Chas. Nida.

A. H. Terry

INVENTOR:

D. S. McBryde

BY

Munn & Co

ATTORNEYS.

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE

DANIEL S. McBRYDE, OF GOOD HOPE, MISSISSIPPI.

IMPROVEMENT IN COTTON-PRESSES.

Specification forming part of Letters Patent No. **169,183**, dated October 26, 1875; application filed September 11, 1875.

To all whom it may concern:

Be it known that I, DANIEL S. McBRYDE, of Good Hope, in the county of Leake and State of Mississippi, have invented a new and Improved Cotton-Press, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a top view of my improved cotton-press; Fig. 2, a side elevation; and Fig. 3, a vertical transverse section of the same on the line *c c*, Fig. 2.

Similar letters of reference indicate corresponding parts.

My invention relates to an improved single or double press for cotton, wool, hay, &c., of simple mechanism and considerable power in direct line; and it consists of longitudinal supporting-sills and guide-pieces for the rods of the follower-blocks, which are moved forward by the gearing of pivoted sector-pieces, with eccentric segments of a centrally-pivoted lever.

In the drawing, A represents the supporting-sills or frame of my improved cotton-press, which is made of suitable size, and strengthened by central, intermediate, and end cross-pieces *a*.

The press may be constructed in single or double manner, with one or two cotton-boxes at the ends, as desired, the boxes being placed, for greater convenience, in direct connection with the lint-room.

By constructing the press in double manner the compressing mechanism may be employed in both directions, and with a comparatively small additional expense, a quicker working, and a more complete utilization of power obtained.

The guide-pieces B of the piston or follower rods C are supported in longitudinal direction between the main sills on the central and middle cross-pieces *a*, and further stiffened by the diagonal cross-braces *b* above the sills. The follower-rods C are pivoted at their recessed rear ends, by pivot-bolt and bands, to the center points of toothed or frictional sectors D, which gear with eccentric segments E of a lever, F, that swings on a central pivot, *d*, of the main frame and diagonal braces. The rear ends of the follower-rods C are provided with small friction-rollers *e*, to lessen the friction with the guide-pieces B.

The pivoted sectors D and eccentric segments E swing between the top and bottom pieces of the guides B, and between the sills and the diagonal top braces, being rigidly confined by the same, and compelled to force the follower C′ in forward direction for compressing the cotton in the boxes. The segments E are rigidly socketed near the center pivot of the lever, and stiffened at their outer ends by brace-pieces E′, secured by fastening-bands or otherwise.

The sectors and segments gear even with each other, and force, by the swinging motion of the sectors, the followers in outward direction for compressing the cotton or other articles in the boxes. The outer ends of the sectors and segments register by suitable recesses, terminating thereby the stroke of the followers.

The lever F is supported by friction-rollers *f* on a circular way, F′, of the central cross-piece, and operated by one or two capstans and ropes at the ends, according as one or two press-boxes are used.

The outer ends of the segments E are connected with the sectors by chains or ropes *g*, which carry the sectors and followers back, when the lever is swung back by hand or otherwise, after the completion of each stroke.

The sills are recessed for giving space to the connecting chains or ropes to slide during the forward and return motion of the parts.

The press is made of strong yet simple construction, and adapted to quick and effective work.

The cotton-boxes may also be placed in the center of the frame, and the segments at each end, to be operated by a lever at each end, which levers are drawn toward the center by a capstan to suit the convenience of narrow lint-rooms.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A cotton-press composed of longitudinal supporting-sills or frame, with braced guide-

pieces and sliding follower-rods, operated by pivoted sectors and eccentric segments of a centrally-fulcrumed main lever, substantially in the manner and for the purpose set forth.

2. The combination of the swinging sectors, by chains or ropes, with the outer ends of the eccentric segments, for returning the followers on the backward motion of the operating-lever, as set forth.

DANIEL SYDNEY McBRYDE.

Witnesses:
A. M. McBRYDE,
J. B. EURE.