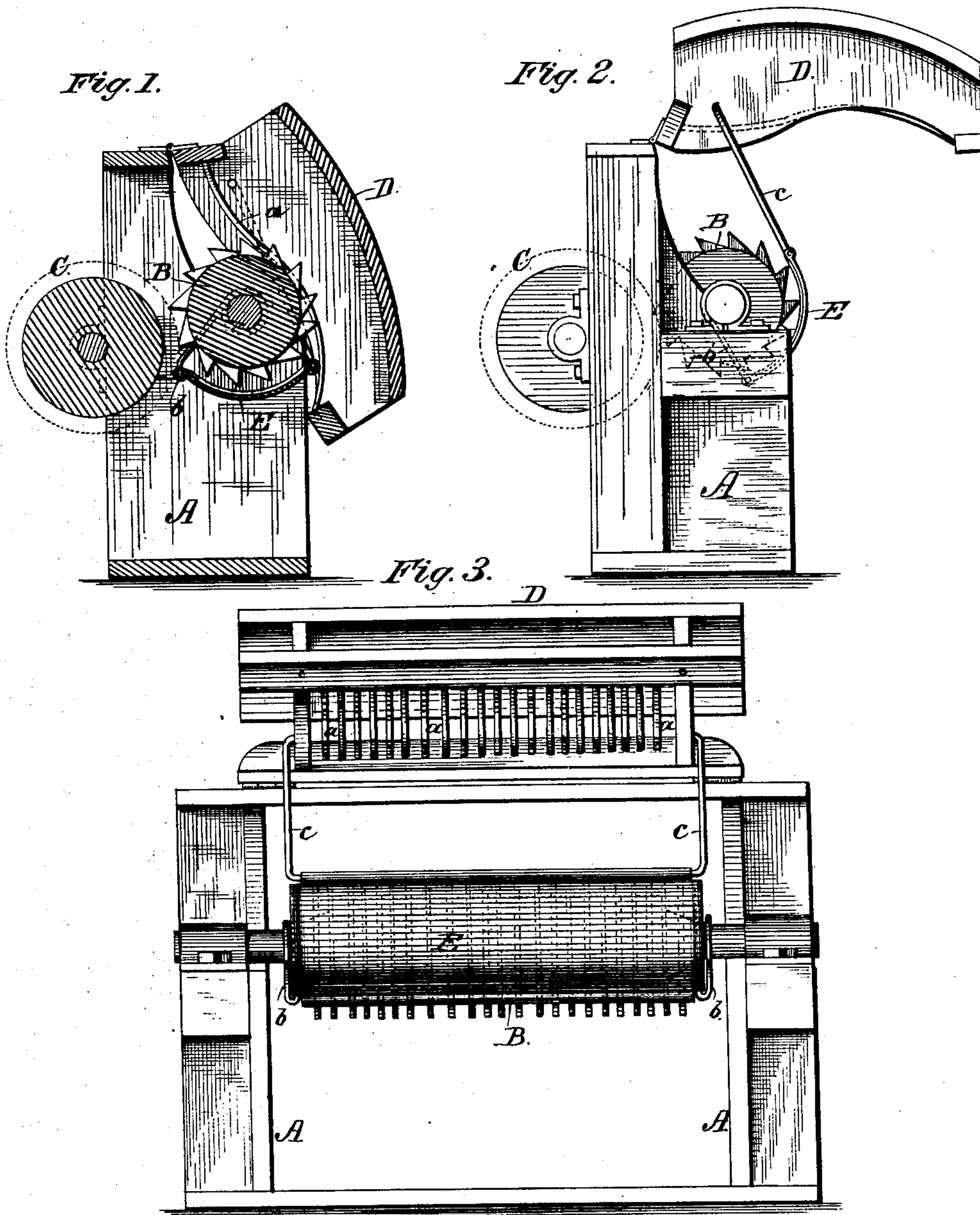


(No Model.)

J. D. SMITH.
COTTON GIN.

No. 245,025.

Patented Aug. 2, 1881.



WITNESSES:
Fred. G. Dietrich
J. C. Kemmer

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UNITED STATES PATENT OFFICE.

JOHN D. SMITH, OF FAYETTEVILLE, NORTH CAROLINA.

COTTON-GIN.

SPECIFICATION forming part of Letters Patent No. 245,025, dated August 2, 1881.

Application filed January 6, 1881. (No model.)

To all whom it may concern:

Be it known that I, JOHN DAWSON SMITH, of Fayetteville, in the county of Cumberland and State of North Carolina, have invented a new and Improved Attachment to a Cotton-Gin; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a vertical transverse section taken through the axis of the gin-saw. Fig. 2 is an end elevation with the breast of the gin raised. Fig. 3 is a front view with the breast of the gin raised.

My invention relates to an improved attachment to a cotton-gin, designed to prevent accidents which so often occur from the contact of the hands and arms of the operator with the saws. In reaching under the arms to brush the moats off the moat-board the draft is liable to draw the sleeve up to the saws and involve the laceration or cutting off of the man's arm. Again, in raising the breast of the gin to clean its ribs while the saws are running the same danger is incurred.

To obviate these dangers, my invention consists of a guard hung beneath the saws and connected to the breast, so that when the latter is raised the guard is thrown between the saws and the operator and shields him from danger, as hereinafter fully described.

In the drawings, A represents a portion of the gin-frame; and B is a series of saws arranged, as usual, upon a shaft journaled in bearings on said frame.

C represents in dotted lines the position of the brush, and D is the breast of the gin, which is hinged at the top to the main frame of the gin and carries the ribs *a*, which rest, when the breast is down, between the saws.

E is a sheet-metal or wooden guard, shield, or apron, which is preferably curved to correspond with the periphery of the saws, and which is suspended beneath the saws by hangers *b*, which may find a support upon the ends of the saw-shaft or upon extensions of the journal-boxes or other suitable points. This guard is attached at the outer edge to a connecting-rod, *c*, at each end, which rods at their upper ends are jointed to the breast of the gin.

It will thus be seen that when the breast of the gin is down the guard rests beneath the saws to protect the arm of the operator in reaching to the moat-board, and when the breast of the gin is raised to clean the ribs the guard passes up and in front of the saws and between the operator and the danger.

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

The combination, with a cotton-gin, of a guard or shield hung beneath the saws and connected to the breast, as described, so as to be placed in front of the saws when the breast is raised, as shown and described.

JOHN DAWSON SMITH.

Witnesses:

CHARLES GLOVER,
W. C. HOLLAND.