(No Model.)

D. S. ROGAN.

COTTON GIN.

No. 280,082. Patented June 26, 1883.

Fig. 1.

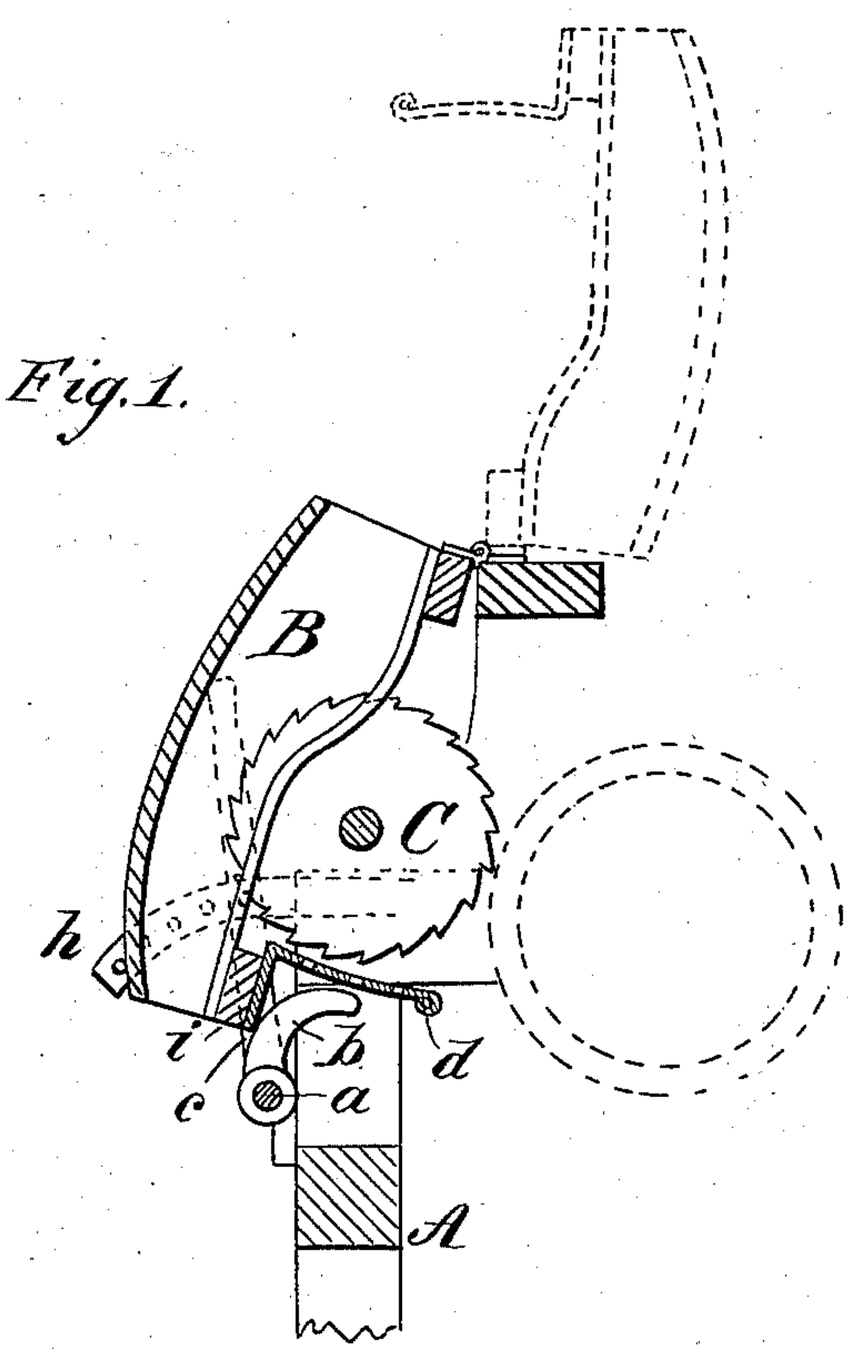


Fig. 3.

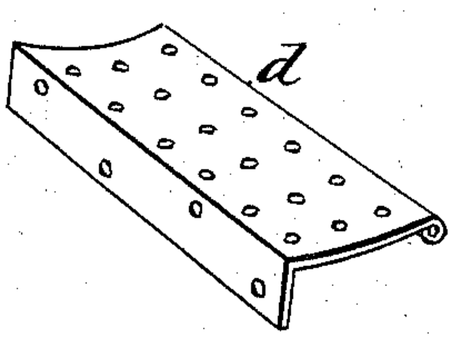
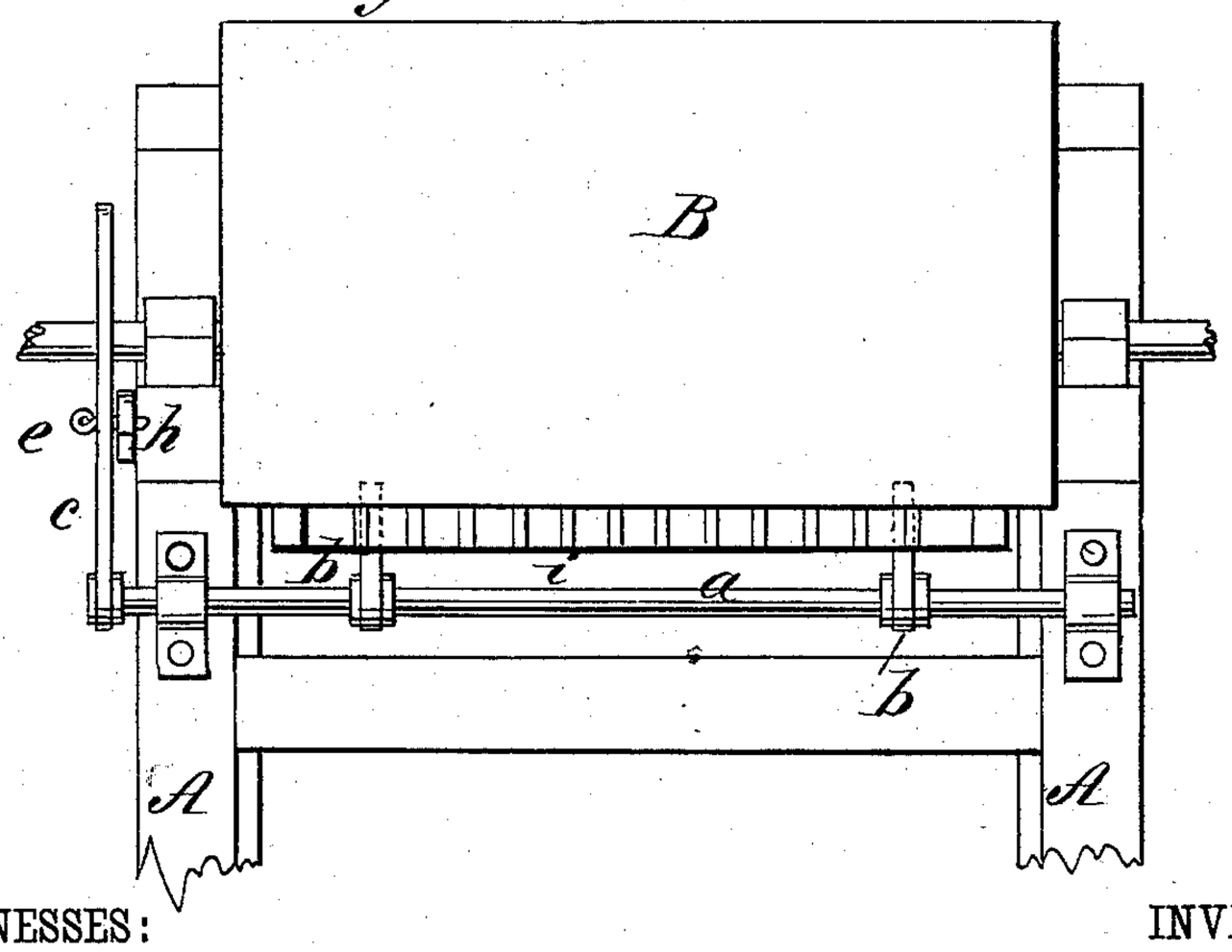


Fig. 2.



WITNESSES:

Donn Twitchell

C. Sedgwick

INVENTOR:

D. S. Rogan

BY Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

DAVID S. ROGAN, OF BURNET, TEXAS.

COTTON-GIN.

SPECIFICATION forming part of Letters Patent No. 280,082, dated June 26, 1883.

Application filed April 10, 1883. (No model.)

To all whom it may concern:

Be it known that I, DAVID S. ROGAN, of Burnet, in the county of Burnet and State of Texas, have invented a new and useful Improvement in Cotton-Gins, of which the following is a full, clear, and exact description.

The object of the invention is to provide certain means whereby the breast and guard can be readily and quickly moved and held out of their normal position for the purpose of clearing or freeing the cotton-roll from the saws, and preventing injury to the operator by said saws.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a sectional side view of the breast and front portion of a gin with my improvements. Fig. 2 is a front elevation of the gin, and Fig. 3 is a perspective view of the shield detached.

A A are the front side posts of the gin, B the breast and roll box, hinged at its upper side, and C are the saws, all of usual character.

a is a shaft fitted beneath the breast in bearings on posts A.

b b are curved arms or cams on the shafts, projecting beneath and taking against the rear side of the lower cross-bar, *i*, of the breast, and *c* is a lever connected on end of shaft *a* for use in operating the shaft to raise the breast.

h is a fixed plate at the side of the lever, provided with holes for receiving a pin, *e*, by which the lever is held with the breast raised more or less.

The shield or guard shown at *d* is a plate of perforated metal or other material, attached by a flange at one edge to the lower bar, *i*, of the breast, so that it extends beneath the saws and far enough to the rear to prevent any contact of the operator's hands or arms with the saws when reaching beneath the breast, as is sometimes required. The shield is perforated to allow circulation of air and escape of dust, and is curved more or less to the shape of the saws.

In the operation of the gin the breast can be readily and quickly raised to clear the roll from the saws by moving the lever, and thereby causing the arms or cams *b* to swing the breast out. At the same time the shield remains to the front of the saws as a protection; but when the saws are to be gummed, the breast is to be raised and turned back, as shown in dotted lines in Fig. 1, and the shield, being attached to it, is also carried out of the way, so that the saws are fully accessible.

I am aware it is not new to apply a guard or shield to cotton-gin saws.

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

The combination, with the top-pivoted breast, the cross-bar *i*, and the guard *d*, of the shaft *a*, cams *b b*, lever *c*, plate *h*, having holes, and pin *e*, as and for the purpose specified.

DAVID SMITH ROGAN.

Witnesses:
EZEKIEL AVERY,
ED. H. WORRALL.