

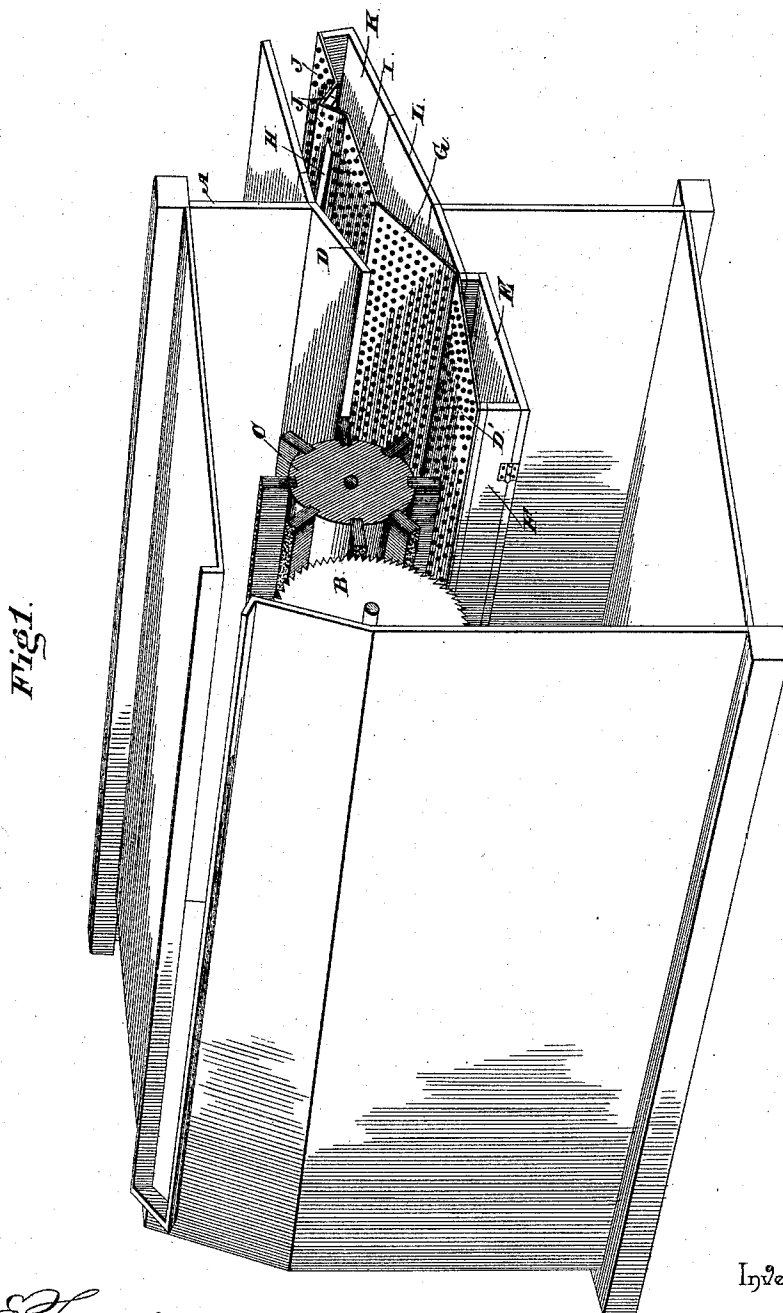
(No Model.)

2 Sheets—Sheet 1.

E. C. SCOTT.
COTTON GIN ATTACHMENT.

No. 475,987.

Patented May 31, 1892.



Witnesses

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D. P. Mankin

Inventor

Eugene C. Scott

By his Attorneys,

C. A. Snow & Co.

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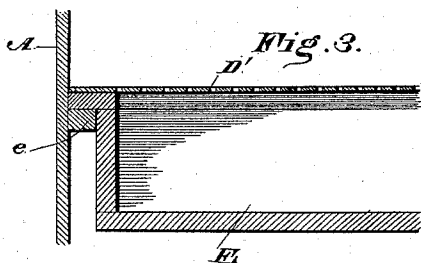
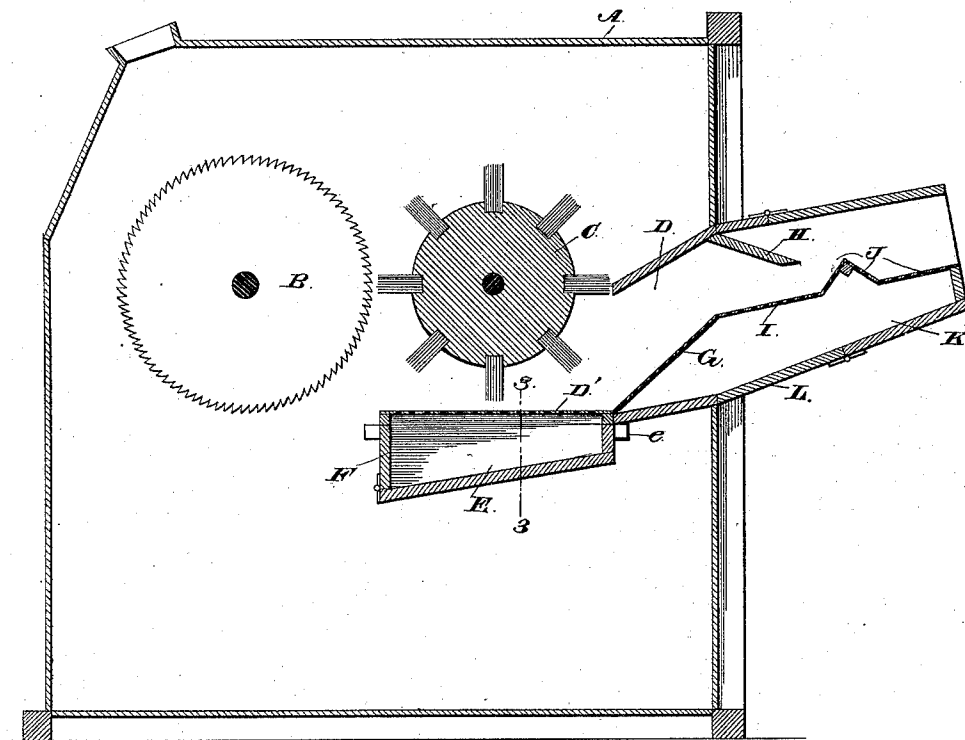
2 Sheets—Sheet 2.

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Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE

EUGENE C. SCOTT, OF ELDERVILLE, ASSIGNOR OF ONE-HALF TO GEORGE A. KELLY, OF LONGVIEW, TEXAS.

COTTON-GIN ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 475,987, dated May 31, 1892.

Application filed November 23, 1891. Serial No. 412,823. (No model.)

To all whom it may concern:

Be it known that I, EUGENE C. SCOTT, a citizen of the United States, residing at Elderville, in the county of Gregg and State of Texas, have invented a new and useful Cotton-Gin Attachment, of which the following is a specification.

This invention relates to cotton-gins; and it has for its object to provide an attachment that is designed to be connected to gins of the ordinary type which will thoroughly clean the cotton as it passes from the gin-brush and effectually separate the sand and dust from the lint before it reaches the condenser, and thus avoid the many serious objections of having the dirt and lint thrown together into the condenser.

With these and many other objects in view, which will readily appear as the nature of the invention is fully understood, the same consists in the novel construction, combination, and arrangement of parts hereinafter more fully described, illustrated, and claimed.

In the accompanying drawings, Figure 1 is a perspective view of a cotton-gin open at one end and provided with separating attachments constructed in accordance with my invention. Fig. 2 is a vertical longitudinal section of the same. Fig. 3 is a detail transverse sectional view showing the attachment of the mote-board to the gin.

Referring to the accompanying drawings, A represents the casing of a cotton-gin, which includes the usual saws B, mounted transversely therein in any number, according to the size of the gin, and only one of which is illustrated in the accompanying drawings, and also the rapidly-revolving brush C, journaled in the gin-frame directly in front of the saws and adapted to take the lint therefrom and force the same out through the flue D, from which the clean lint passes to the ordinary condenser. Secured within the gin directly under and in close proximity to the revolving brush C is the horizontal perforated mote-board D, constructed of perforated metal or perforated boards, and which is adapted to cause the first separation of the sand and dust from the lint as it is thrown directly upon or drawn over the same as the brush tears it from the saws.

A suitably-constructed dust-box E is supported upon the cleats *e* in the side of the gin, which also supports the mote-board and is adapted to receive and collect the dust and sand from the lint, which may be removed therefrom through the tightly-fitting door F, hinged in an open end thereof.

Within the flue D a second separating-board G of perforated material is secured, and the same extends upwardly and at an angle from the outer edge of the mote-board D and is designed to receive the lint after it has been dragged over the mote-board, and which is thrown forcibly by the rapid revolutions of the brush C against the same and causes the dust and sand remaining in said lint to be more effectively separated therefrom. Still under the impetus given by the revolving brush the lint leaves said incline and ascends to the top of the chute, where the same meets the deflecting-board H, secured at an angle to the top of said chute, and which directs the lint against the third section of perforated board or metal I, also arranged at an incline or an angle with relation to the last separating-plate G, and still further causes the separation of any dust or sand which may remain in the lint. The rest of the chute to the condenser is preferably provided with perforated sections J, which provide for the separation of any foreign matter that might have remained in the lint after leaving the last separating-plate I.

A continuous dust-box K is located under the separating-boards of the chute in front of the separating mote-board and serves to collect and retain the dust and sand separated from the lint until a sufficient quantity has been collected, at which time the same may be removed through the discharging-door L, located in the bottom of said second dust chamber or box.

The construction and operation of the herein-described cleaning attachment for gins is now thought to be apparent without further description.

Although the construction and operation of the apparatus is apparent, as stated, nevertheless, as the principal features of the invention lie in the mote-board and the perforated angle-board arising therefrom at an angle, I

would at this point lay particular stress upon the same.

The important function and advantage of using a perforated mote-board directly beneath the brush has already been referred to; but relative to the perforated angle-board G it may be further added that said angle separating-board arises from one end of the horizontally-disposed mote-board at an angle approximating forty-five degrees, and which in case there is any rebound of sand from the said mote-board the said angle-board serves to let the sand pass out through the perforations therein, and, owing to the position it occupies with relation to the mote-board, thus taking another very important function besides that of having the lint beat directly there-against.

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

1. In a cotton-cleaner, the combination, with the gin having the revolving saws and brush, of a perforated separating mote-board located directly beneath said brush, a collecting-chamber beneath said mote-board, the discharge-flue, and a series of perforated separating-boards located within said flue at an angle to each other, substantially as set forth.

2. In a cotton-cleaner, the combination, with

the gin having revolving saws and brush, of a perforated separating mote-board located directly beneath said brush, a collecting-chamber beneath said mote-board, a discharge-flue, a perforated separating-board located at an angle within said flue and extending upwardly from one end of the said mote-board, a downwardly and outwardly arranged deflector secured in the top of said flue directly above the upper end of said inclined separator, a supplementally-inclined separating-board meeting the upper end of the first separating-board below said deflector, and a collecting-chamber located beneath the separators in front of the mote-board, substantially as set forth.

3. In a cotton-cleaner, the combination, with the gin having the revolving saws and brush, of a perforated mote-board located directly beneath said brush, the flue, and a supplemental separating-board located in the flue and set at an angle from said mote-board, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

EUGENE C. SCOTT.

Witnesses:

T. H. COCK,
R. M. KELLY.