

A. T. HUNT.
Cotton Cleaner and Condenser.

No. 201,676.

Patented March 26, 1878.

Fig. 1

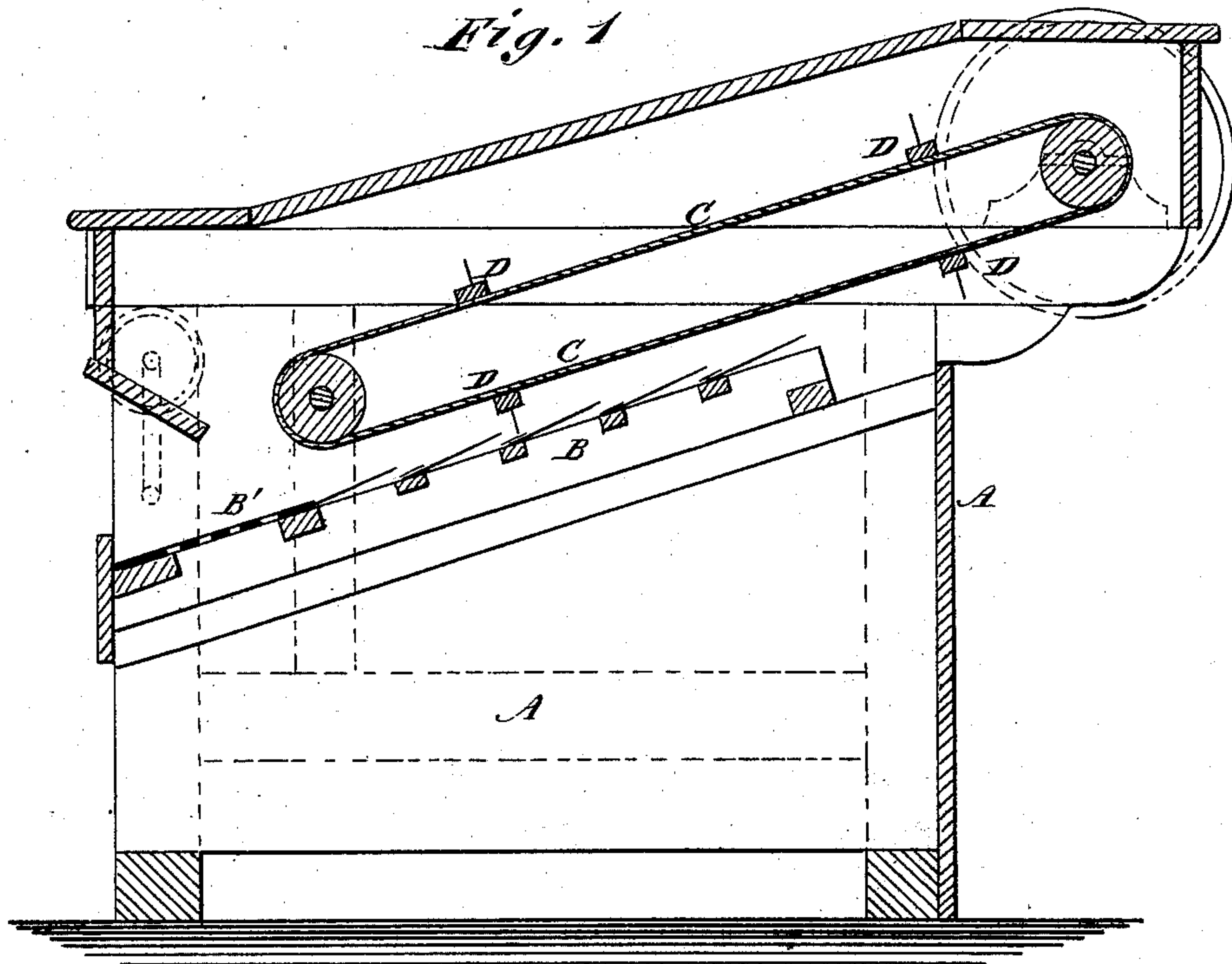
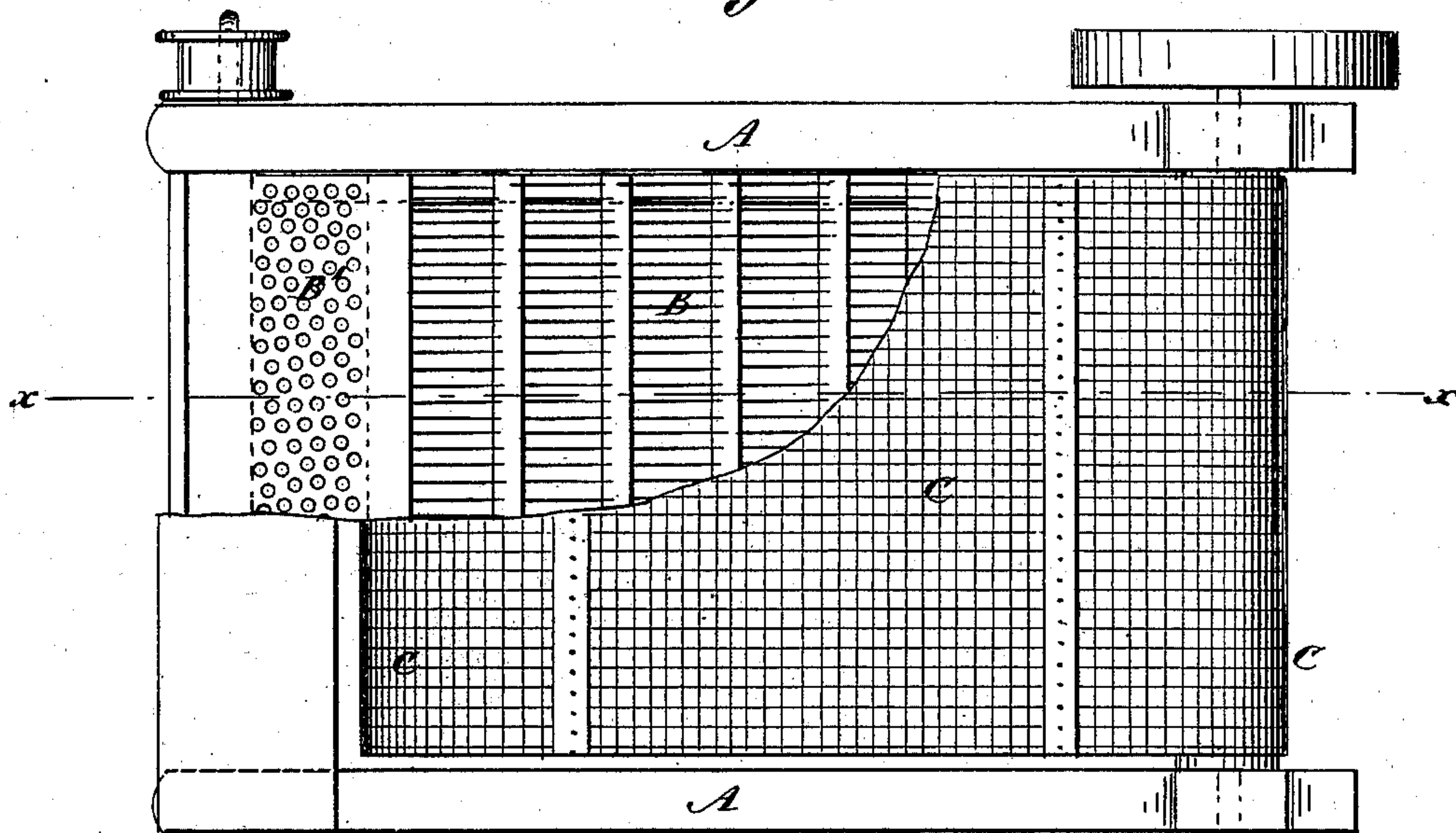


Fig. 2



WITNESSES:

C. Neveu
J. H. Scarborough.

INVENTOR:

A. T. Hunt.
BY *Mumford*

ATTORNEYS.

UNITED STATES PATENT OFFICE.

ALEXANDER T. HUNT, OF ARKADELPHIA, ARKANSAS.

IMPROVEMENT IN COTTON CLEANERS AND CONDENSERS.

Specification forming part of Letters Patent No. **201,676**, dated March 26, 1878; application filed September 14, 1877.

To all whom it may concern:

Be it known that I, ALEXANDER T. HUNT, of Arkadelphia, county of Clark, and State of Arkansas, have invented a new and Improved Cotton Cleaner and Condenser, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a vertical longitudinal section on line *x x*, Fig. 2, of my improved cotton cleaner and condenser; and Fig. 2 is a plan view of the same with parts cut off.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish a machine by which the lint-cotton is cleaned and condensed at one and the same time as it comes from the gin; and the invention consists of an inclined stationary or adjustable screen, made of sections, with parallel fingers, in connection with an endless belt having lateral combs or rakes.

The cotton is exposed to the draft of an air-current, caused by the gin-brush, that causes the sand or dirt to drop through the screen, for being conducted off in suitable manner.

In the drawing, A represents the supporting-frame, B the inclined screen, and C the endless belt, of my improved cotton cleaner and condenser.

The machine is used in connection with any gin-stand by means of a small flue, that throws the draft on the screen in such a manner as to cause the dirt or sand to pass through the screen into a hole cut in the floor of the gin-house, immediately below the screen. At the lower end of the inclined screen B, where the lint-cotton enters the machine, is a perforated screen, B', the remaining part of screen B being made in sections of metal or wood, with parallel inclined fingers, of round or other shape, fastened at one end into the cross sec-

tions or strips. The ends of the fingers are left free, to allow the cotton to pass over without jamming.

The screen may be stationary or adjustable, as desired, and according to the degree to which the cotton is to be condensed.

The endless belt C is made of three or more rubber or leather belts, stretched over driving and tension rollers, and covered with canvas or other suitable fabric. The endless belt is arranged parallel to the screen, and the draft and cotton confined between the belt and screen. The belt is provided with lateral strips of wood, attached to the belt by staples, and provided with upright metallic or wooden fingers, that form combs or rakes D, for carrying the cotton forward over the screen. The cotton is thus carried up to the opening at the back of the machine, and dropped at the highest point in a cleaned and condensed state.

The belt C is revolved in any suitable manner, either by belt-and-pulley connection with the gin or otherwise, the lint-cotton being compressed by passing up in the narrow space between the screen and the belt, being cleaned at the same time by the air-draft thrown therein.

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

In a cotton cleaner and condenser, the combination of an inclined screen, formed of a lower perforated section and upper sections with inclined parallel fingers, with an endless belt arranged parallel thereto, and having lateral combs or rakes, substantially in the manner described, and for the purpose specified.

ALEXANDER TROTTER HUNT.

Witnesses:

GEO. FULLER,
JNO. SMOKE.