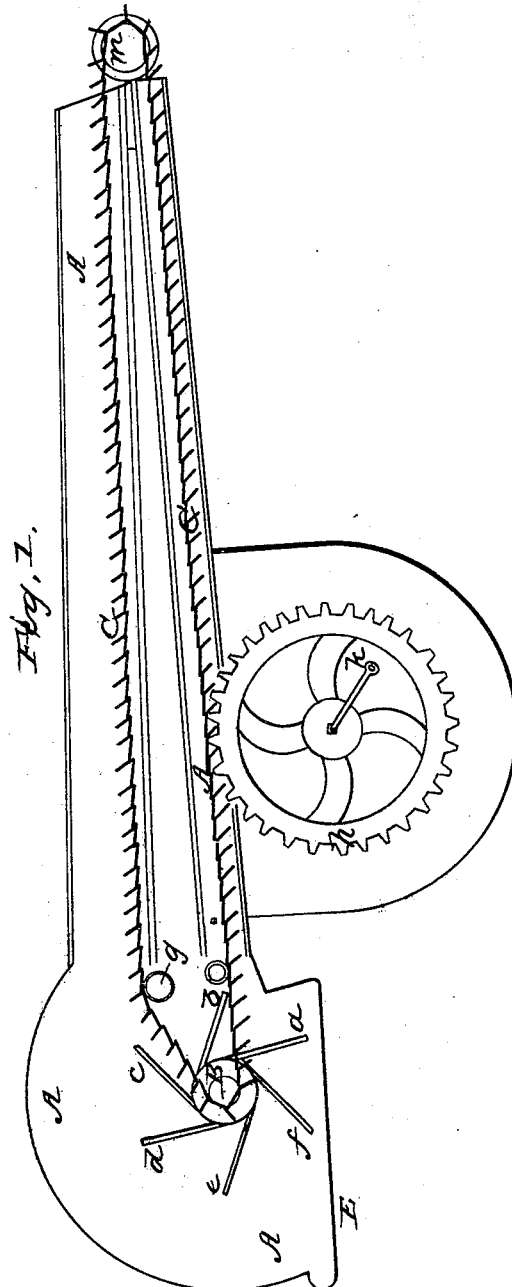
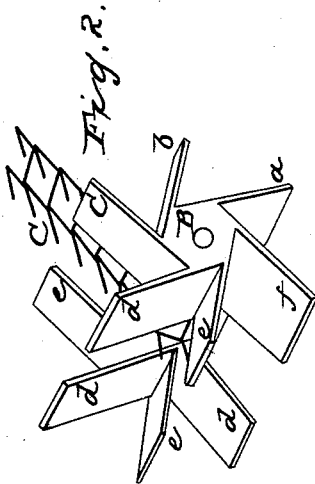


G. A. HOWE.
Cotton Harvester.

No. 53,447.

Patented March 27, 1866.



Witnesses:
John Coon
S. J. Coon.

Inventor:
George A. Howe

UNITED STATES PATENT OFFICE.

GEORGE A. HOWE, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN COTTON-PICKERS.

Specification forming part of Letters Patent No. 53,447, dated March 27, 1866.

To all whom it may concern:

Be it known that I, GEORGE A. HOWE, of the city of Brooklyn, in the State of New York, have invented certain new and useful Improvements in Cotton-Harvesting Machines; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and the letters of reference marked thereon.

My invention consists in an improvement in strippers for detaching cotton from an endless rotating toothed chain or gatherer in hand cotton-harvesters, and is also applicable to any machine which operates on the same general principles.

In the accompanying drawings, Figure 1 represents a vertical and longitudinal section of a cotton-harvester. Fig. 2 is a view of my improved stripper, in perspective, showing a part of the endless toothed chain passing around its axis.

To enable others skilled in the art to make and use my improvement, I will proceed to describe its construction and operation.

A A A A is the external case of a cotton-harvester. B is the central part of the stripper, and *a b c d e f* its fans or wings.

C C is the endless toothed chain, which is made to revolve on the axis of the stripper B and on the rollers *g* and *m*. This chain is rotated by means of the gear *h* meshing into the chain C. The gear *h* revolves upon a shaft connected with a standard, which is secured to the under part of the case A.

k is a hand-crank operating the gear *h*. D is the point in the toothed chain where it seizes the cotton, which is conveyed by the chain past the roller *g* to the stripper, by which

it is detached from the chain and delivered from the machine through an opening at E in the exterior case, A.

The stripper has two sets of fans, as shown in Fig. 2, one set operating on each side of the chain. Those parts of the stripper's shaft to which the fans are attached are cylindrical and have a diameter greater than that of the central part, around which the chain turns, and the fans are attached to the shaft as tangents thereto.

It has been demonstrated by experiment that a fan-stripper having the fans arranged in relation to the shaft or axis in the form of radii, and operating in connection with an endless belt or chain of the general character here represented, frequently fails to perform the part assigned to it, and this failure results in clogging the stripper and interrupting the operation of the machine. The tangential arrangement of the fans, as shown in my improvement, successfully prevents this clogging, the fans lifting and detaching the cotton from the chain before it reaches the shaft of the stripper.

I do not claim the application of a fan or fans to a gathering-chain as a means of removing the gathered cotton from such chain; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

The arrangement of stripper-fans in respect to the shaft on which they revolve as tangents thereto, substantially as described.

GEORGE A. HOWE.

In presence of—

JOHN COON,
J. J. COOMBS.