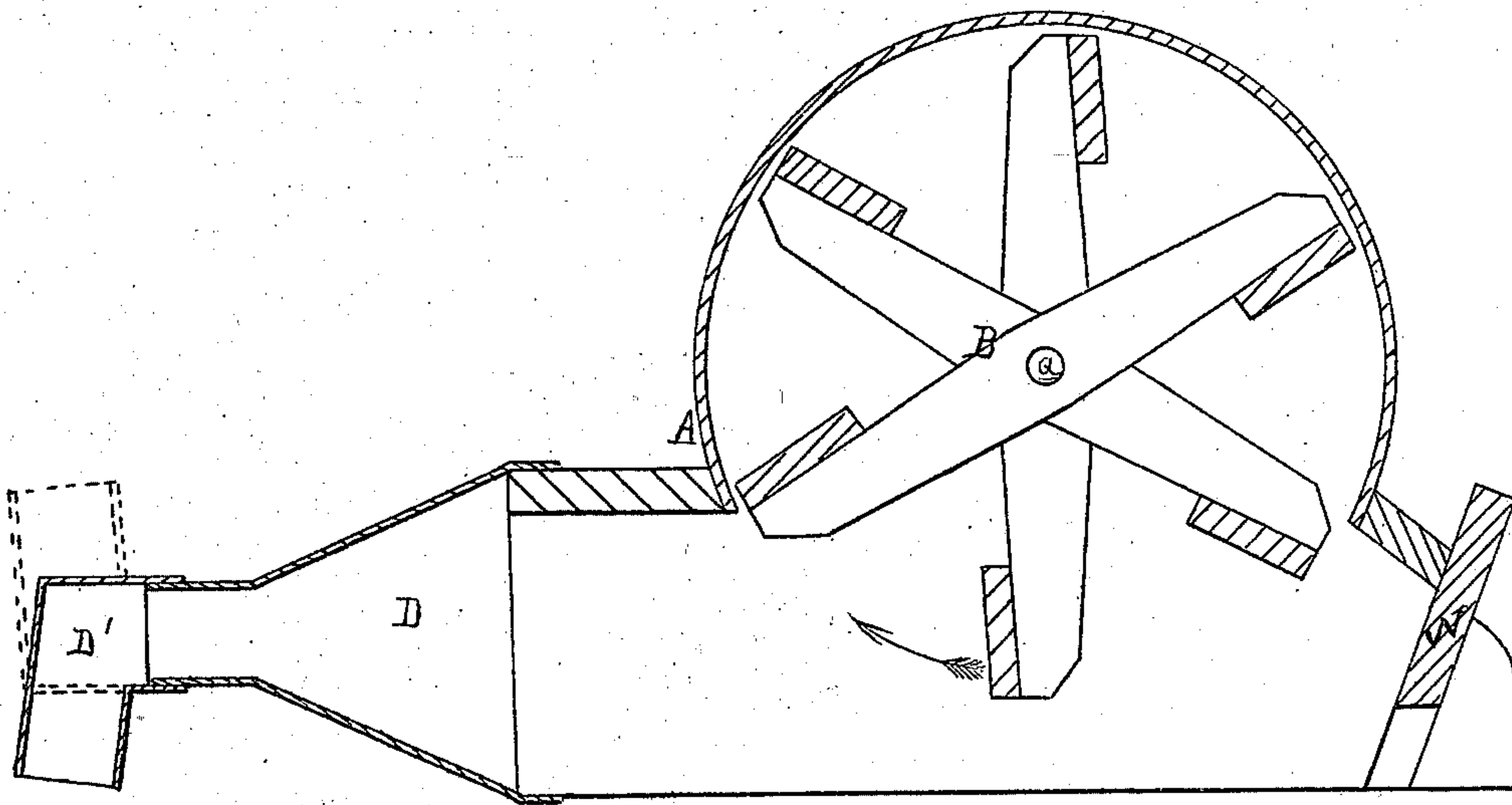


C. L. ALLEN.

Improvement in Dust-Fans for Thrashing-Machines.

No. 128,838.

Patented July 9, 1872.



ATTEST:

Harry C. Sprague.

H. F. Everts.

INVENTOR:

Charles L. Allen

per attorney,

Mrs. S. Sprague

128,838

# UNITED STATES PATENT OFFICE.

CHARLES L. ALLEN, OF FLAT ROCK, MICHIGAN.

## IMPROVEMENT IN DUST-FANS FOR THRASHING-MACHINES.

Specification forming part of Letters Patent No. 128,838, dated July 9, 1872.

*To whom it may concern:*

Be it known that I, CHARLES L. ALLEN, of Flat Rock, in the county of Wayne and State of Michigan, have invented a new and useful Improvement in Fan-Case Spouts for Grain-Separators; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon and being a part of this specification, in which my improvement is shown in a longitudinal vertical section.

This invention has for its object to provide an adjustable dust-discharge pipe to the fan-case attachment to grain-separators, for which Letters Patent numbered 105,158 were, on July 12, 1870, issued to Charles L. Allen, assignor to himself and William Shiek, whereby the dust is prevented from being blown back into the machine during the prevalence of a contrary wind; and it consists in the peculiar construction of the adjustable dust-discharge pipe and its application for the purpose, as more fully hereinafter set forth.

In the drawing, A represents the fan-case, constructed as described in said Letters Patent, except that the grooves *d d'* and the slide D, as therein described and shown, are dis-

pensed with, leaving that end of the fan-case open. B is the fan on the shaft *a*, rotated from any convenient pulley of the separator for the purpose of driving away the dust raised in the process of separating the grain or seed. It has been found in practice that with the case A constructed as described in the said Letters Patent a contrary wind would blow the dust back into the machine or into the face of the attendants who were engaged in feeding the grain to the cylinder. To overcome this objection I provide the rear end of the case with a spout, D, over which may be slipped an elbow-nozzle, D'. If the wind be from the attendants the latter is omitted or taken off, but if contrary it is placed on the spout and turned so as to discharge the dust at one side or down into the machine, falling on the bolts.

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

In combination with the fan-case A, provided with grooves and adjustable slide-board W, the tube D and adjustable nozzle D', substantially as and for the purpose set forth.

CHAS. L. ALLEN.

Witnesses:

H. F. EBERTS,  
HARRY S. SPRAGUE.