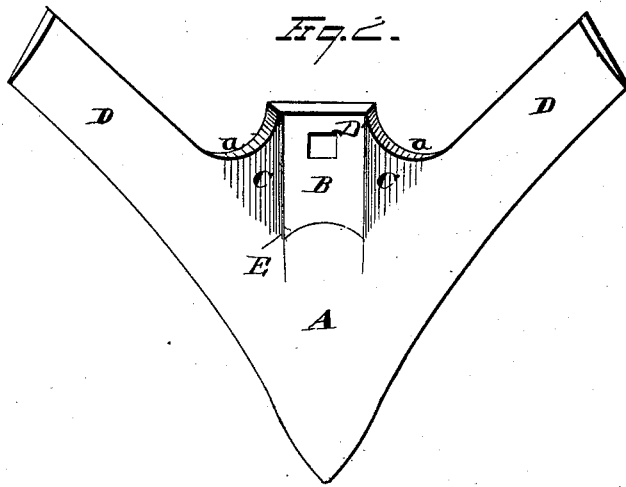
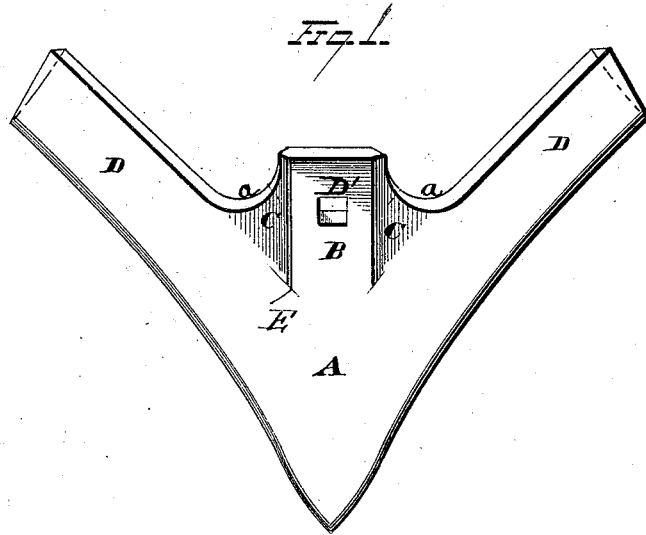


W. W. SPEER,  
Cotton-Sweep.

No. 199,590.

Patented Jan. 22, 1878.



WITNESSES  
*Edw. J. Nottingham*  
*A. M. Bright*

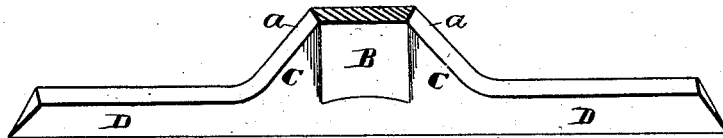
INVENTOR  
*W. W. Speer*  
By *Sengett & Sengett*  
ATTORNEY

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Fig 3



WITNESSES

*E. J. Nottingham*  
*A. M. Bright*

INVENTOR

*W. W. Speer.*  
By *Leggett & Leggett*  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

WILLIAM W. SPEER, OF PITTSBURG, PENNSYLVANIA.

## IMPROVEMENT IN COTTON-SWEEPS.

Specification forming part of Letters Patent No. **199,590**, dated January 22, 1878; application filed September 28, 1877.

*To all whom it may concern:*

Be it known that I, WILLIAM W. SPEER, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Cotton-Sweeps; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in cotton-sweeps, the object being to provide a cotton-sweep of such a construction that it will be economical in manufacture and durable in use; and to that end my invention consists in a cotton-sweep wherein the bearing or seat for the standard is formed partly on the stem and partly on the main portion of the sweep, said bearing portion being strengthened by means of curved portions, which connect the stem with the arms of the sweep, said curved portions leading from the bearing or seat to the arms, to form an angular brace between said stem and arms.

Referring to the drawings, Figure 1 is a plan view of a sweep embodying my invention. Fig. 2 is a reverse plan view of the same, and Fig. 3 is a rear edge view of the sweep.

A designates the sweep, which is constructed with the arms D and stem B. The stem and arms are connected with each other by means of the angular braces C, the edges *a* of which are curved, and extend from the end of the stem downwardly toward the point of the

sweep, and then outwardly, and merge into the arms D. Stem B is provided with a bolt-hole, D', through which is inserted a bolt to secure the standard to the sweep.

E represents the seat or bearing for the standard, and the same is formed partly on the stem and partly on the body of the sweep.

It will be observed that a cotton-sweep constructed in accordance with my invention has embodied therein the minimum amount of metal, due regard being had to its strength and durability. The standard has a full flat bearing against the under side of the stem, and also against a portion of the body of the sweep.

That portion of the stem below the bolt-hole, and upon which the breaking strain is brought to bear, is fully protected against transverse breakage, by means of the portions C, which constitute angular braces, and operate to materially strengthen the stem B.

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

A cotton-sweep having a standard seat or bearing, E, partly on the stem and partly on the body of the sweep, the arms D D and stem B being joined by the angular braces C, which are formed with curved edges *a*, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 24th day of September, 1877.

WILLIAM W. SPEER.

Witnesses:

JOHN W. WILEY,  
ORIN P. VAN METER.