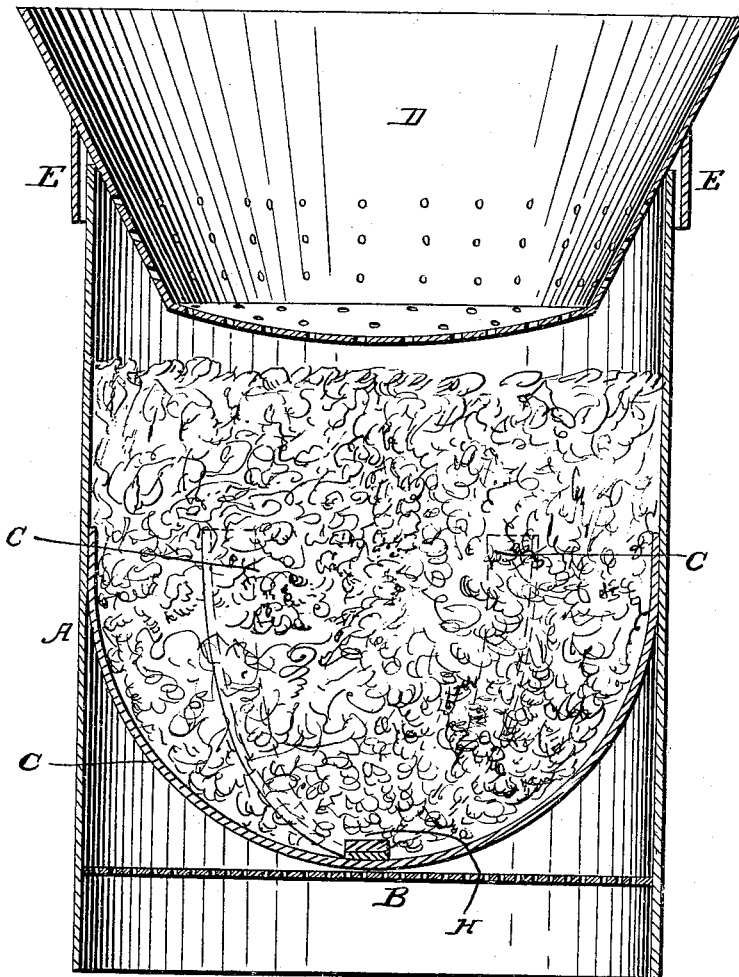


J. S. SMITH.

Sirup Filter.

No. 53,693.

Patented April 3, 1866.



Witnesses:  
*Mr. Watson*  
*John P. Jacoby*

Inventor:  
*James L. Smith*  
by  
*C. M. Alexander*  
*Atty.*

# UNITED STATES PATENT OFFICE.

JAMES L. SMITH, OF TUSCOLA, ILLINOIS.

## IMPROVEMENT IN SIRUP-FILTERS.

Specification forming part of Letters Patent No. **53,693**, dated April 3, 1866.

*To all whom it may concern:*

Be it known that I, JAMES L. SMITH, of Tuscola, Illinois, have invented certain new and useful Improvements in Sirup-Filters; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon, making a part of this specification.

The drawing herewith presented represents a vertical section of the sirup-filter.

A is the body of the filter, which is constructed in the form of a cylinder and made of tin, wood, or any of the known materials in a substantial manner.

B is a sieve, and is set in the body A near its bottom.

C C C represent three metallic braces which extend from one side of the filter to the other, secured at each end, bent in the form as shown, and crossing each other at H, for the purpose of allowing the wool F to rest upon and prevent it from pressing on the sieve B.

D is a funnel-sieve with perforations in its side and bottom, being provided with flanges E E, which project over the sides of the filter A and answer as a cap or covering for the sirup-filter.

The object in placing the raw wool F within the body A is that all the small pieces of the cane and other substances connected with the sirup are caught in the wool. The juice of the

cane is then allowed to pass freely through the sieve B perfectly cleansed.

The sirup, before being boiled, is placed the sieve D, which retains the larger particles of the cane, &c.; from thence passing onto and through the wool F, where it is further cleansed; from thence onto and through the finer sieve B, where it is taken from and placed in another vessel in a clean state and ready for boiling.

Filtering by this process makes the sirup perfectly clear and free from impurities, while otherwise the sirup is of a dark color and has not the same flavor which it receives by the means herein described.

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

1. The arrangement of the sieves D and B, the body A, and the braces C C C, in the manner and for the purpose herein specified.

2. The wool F, in combination with the body A and sieves D and B, when used as and for the purpose herein specified.

In witness that I claim the foregoing I have hereunto set my hand in the presence of two witnesses.

JAMES L. SMITH.

Witnesses:

F. M. FRIEND,  
JOHN H. MALLON.