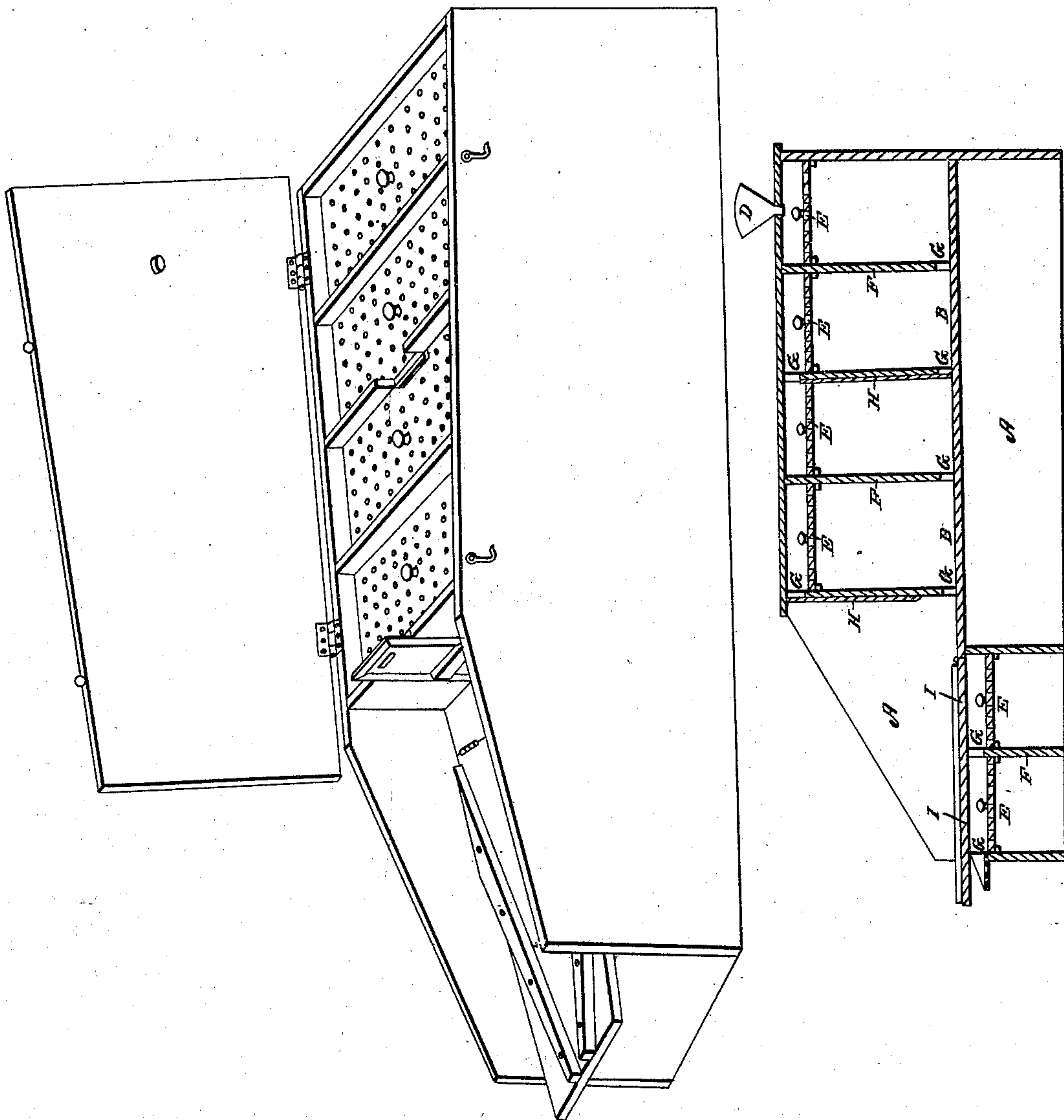


P. & H. A. PERDEW.
Cleansing Sorgo Sirup.

No. 58,472.

Patented Oct. 2, 1866.



Witnesses:
J. L. Cook.
H. H. King

Inventors:
Philip Perdeu.
Horace A. Perdeu.

UNITED STATES PATENT OFFICE.

P. PERDEW AND H. A. PERDEW, OF SEAL, OHIO.

IMPROVED FILTER FOR SIRUP.

Specification forming part of Letters Patent No. 58,472, dated October 2, 1866.

To all whom it may concern:

Be it known that we, PHILIP PERDEW and HORACE A. PERDEW, of Seal, in the county of Wyandot and State of Ohio, have invented a new and useful Sorgo-Filter; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a top view of the whole machine. Red ink represents the edge of the wood or other material. Figs. 2 and 3 represent a vertical section of our invention, taken in the line *x x*.

Similar letters of reference indicate corresponding parts in both figures.

To enable those skilled in the art to fully understand and construct our invention, we will proceed to describe it.

A represents the body or outer part of the filter, which may be made in quadrilateral or any other form, in which B represents the bottom board, Fig. 2; C, the lid, provided with hopper or tunnel D; E E E E E E, the perforated covers to the boxes, below which is placed cut straw, especially in one or more that the sirup first passes through; but wool may be put in those the sirup last passes through. F F F F represent the partitions, having openings G G G G G G G G in the lower edges and the upper edge of every alternate partition, in which is a gate, H, to close the lower passage in these partitions, except when cleaning the filter, as hereinafter described; but these filter-boxes may be arranged in any desired form, or so arranged (see Fig. 3) that the sirup shall fall into an apartment, and pass below the first filter-box and rise up through a perforated bottom and filtering mate-

rial, and in like manner rising through every box, which allows settlings to collect upon the bottom, and the filter will not clog so often.

I is the adjustable apron, held down by the fastener J and hung to the bottom board, with a rabbet projecting underneath when down, so that the filtered sirup shall run over the apron into any evaporator or finisher; but when the apron is raised up in cleaning the filter, the rinsings run into the lower boxes through the opening between the bottom board and apron when it is up.

In using the sorgo-filter, the cane-juice may be boiled and skimmed until it is about 15° Baumé's saccharometer, and run off while hot into the hopper or funnel D upon the lid, where it runs through the cover and filtering material in the first box, and through the opening G in first partition, (when constructed like Figs. 1 and 2,) and up through the second box, over into the third and through it, and so on until it runs off from the apron into Cook's evaporator, or any finisher.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The use of two or more filter-boxes for the purpose of cleansing sorgo-sirup.
2. The downward and upward flow of the sirup in passing through, as set forth.
3. The combination of the filter-boxes, below the apron, with the other filter-boxes, for the purpose set forth.

PHILIP PERDEW.
HORACE A. PERDEW.

Witnesses:

J. L. COOK,
H. A. KING.