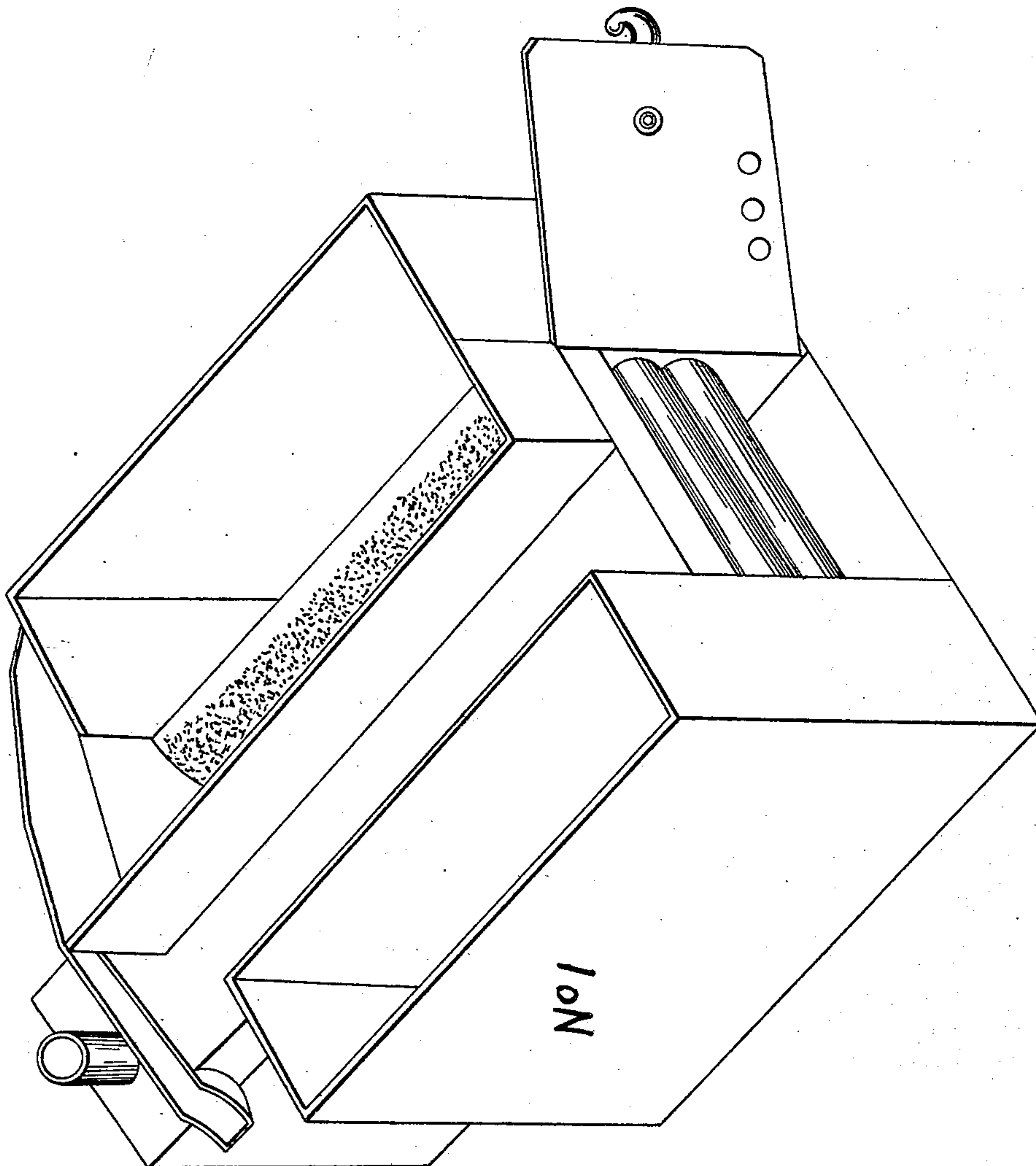


L. THOMAS.  
Sirup Boiler and Evaporator.

No. 50,644.

Patented Oct. 24, 1865.



WITNESSES  
*Henrietta Thomas*  
*L. M. Lewis*

INVENTOR  
*Lloyd Thomas*

# UNITED STATES PATENT OFFICE.

LLOYD THOMAS, OF NEW PHILADELPHIA, ILLINOIS.

## IMPROVED SIRUP-BOILER AND EVAPORATOR.

Specification forming part of Letters Patent No. 50,644, dated October 24, 1865.

*To all whom it may concern:*

Be it known that I, LLOYD THOMAS, of New Philadelphia, in the county of McDonough and State of Illinois, have invented a new and Improved Mode of Boiling Molasses or any Liquids that may Require Boiling; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

The nature of my invention consists in hollow grate-bars, on which the fire and fuel are placed, through which the liquid is to pass out of one chamber into another chamber. Then said liquid is to pass through a skimmer into the evaporating-pan.

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

I construct my evaporating pan and stack in any of the known forms, and apply thereto my two chambers, which are to form part of the heating-furnace. The cold liquid is to

enter into chamber one, (1,) as shown in the accompanying drawing, and to pass through the hollow fire-grate bars to prevent their burning, and also to boil the liquids, that may pass through them into chamber two, (2,) at the top of which is placed a skimmer, through which the liquids are to pass for the purpose of skimming off all skims that may arise.

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

1. The hollow grate-bars on which the fire and fuel are placed, through which any liquids may pass for the purpose of heating said liquids, and for the preservation of the grate-bars and the chambers which form part of the heating-furnace, and boiling any liquids that may pass through them.

2. A skimmer that is placed at the top of chamber two (2.)

LLOYD THOMAS.

Witnesses:

R. S. RANDALL,  
D. M. WYCKOFF.