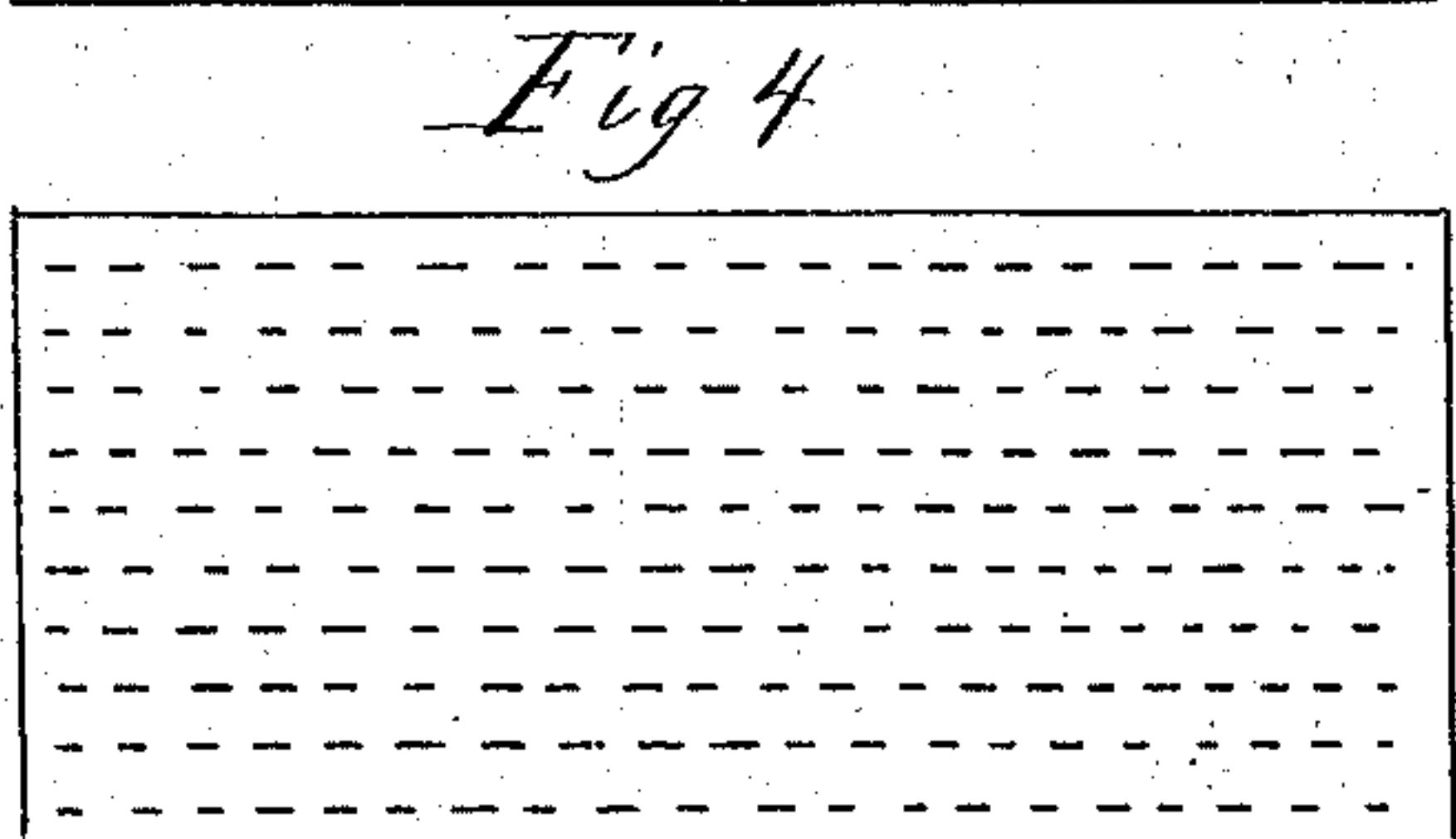
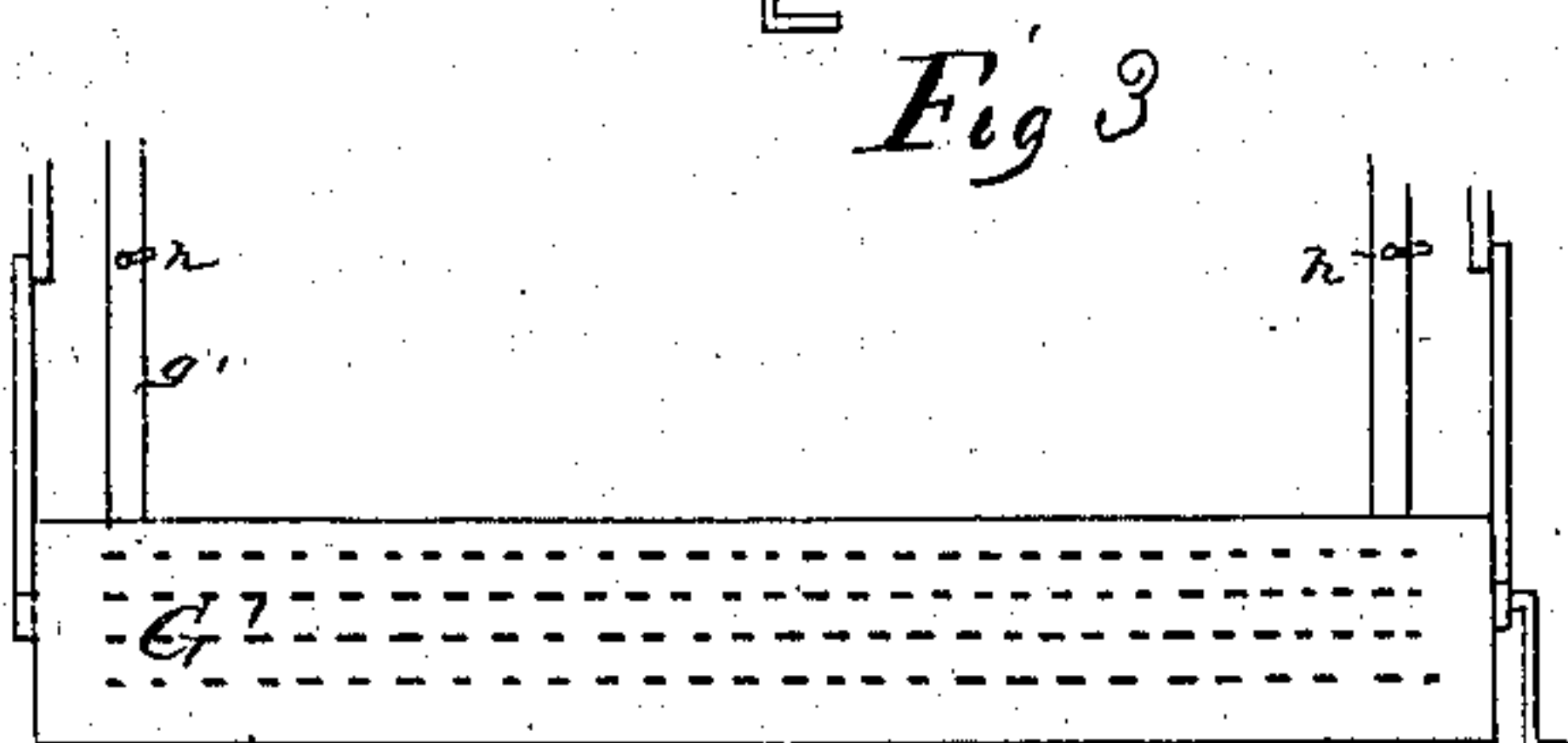
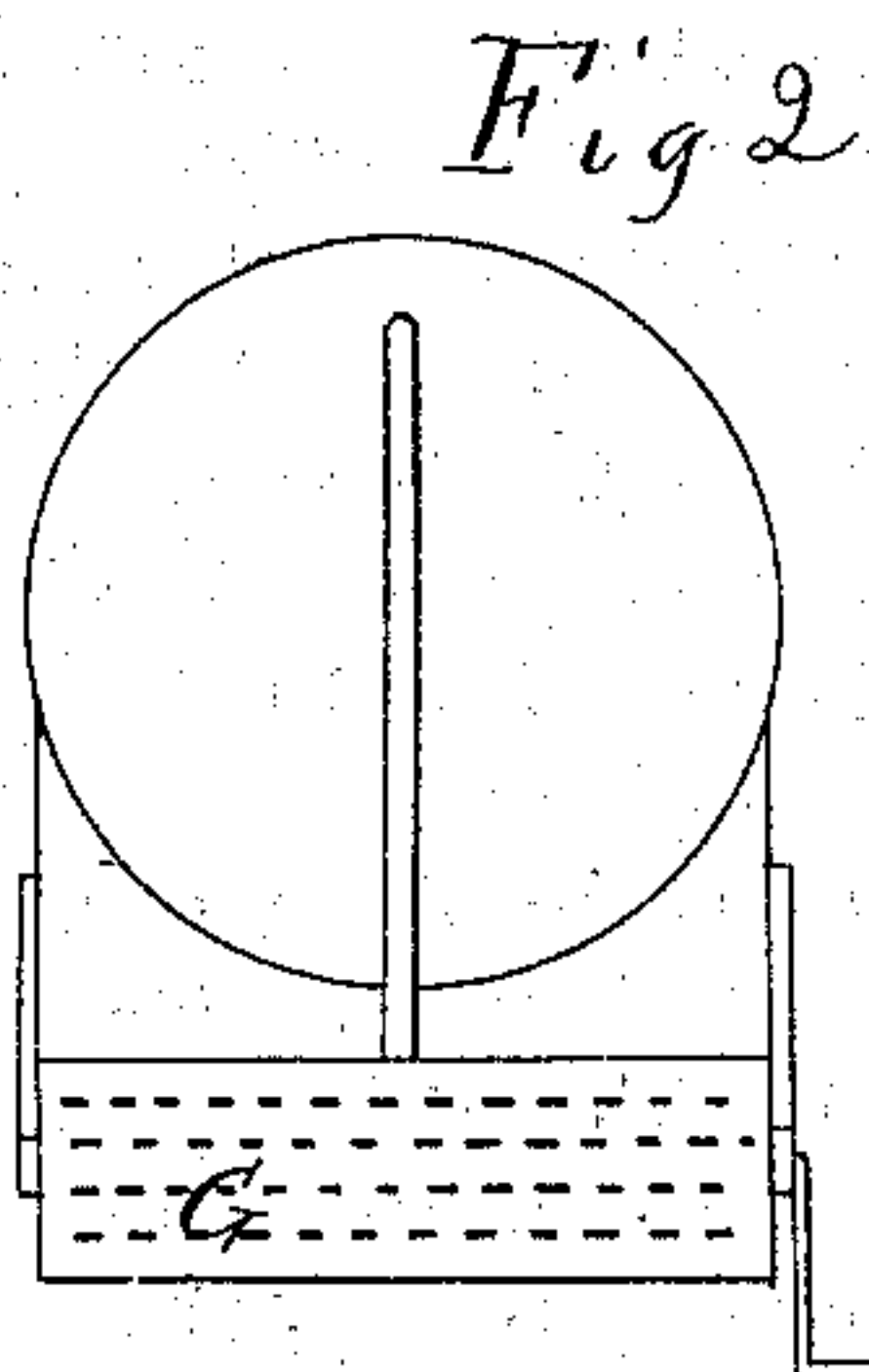
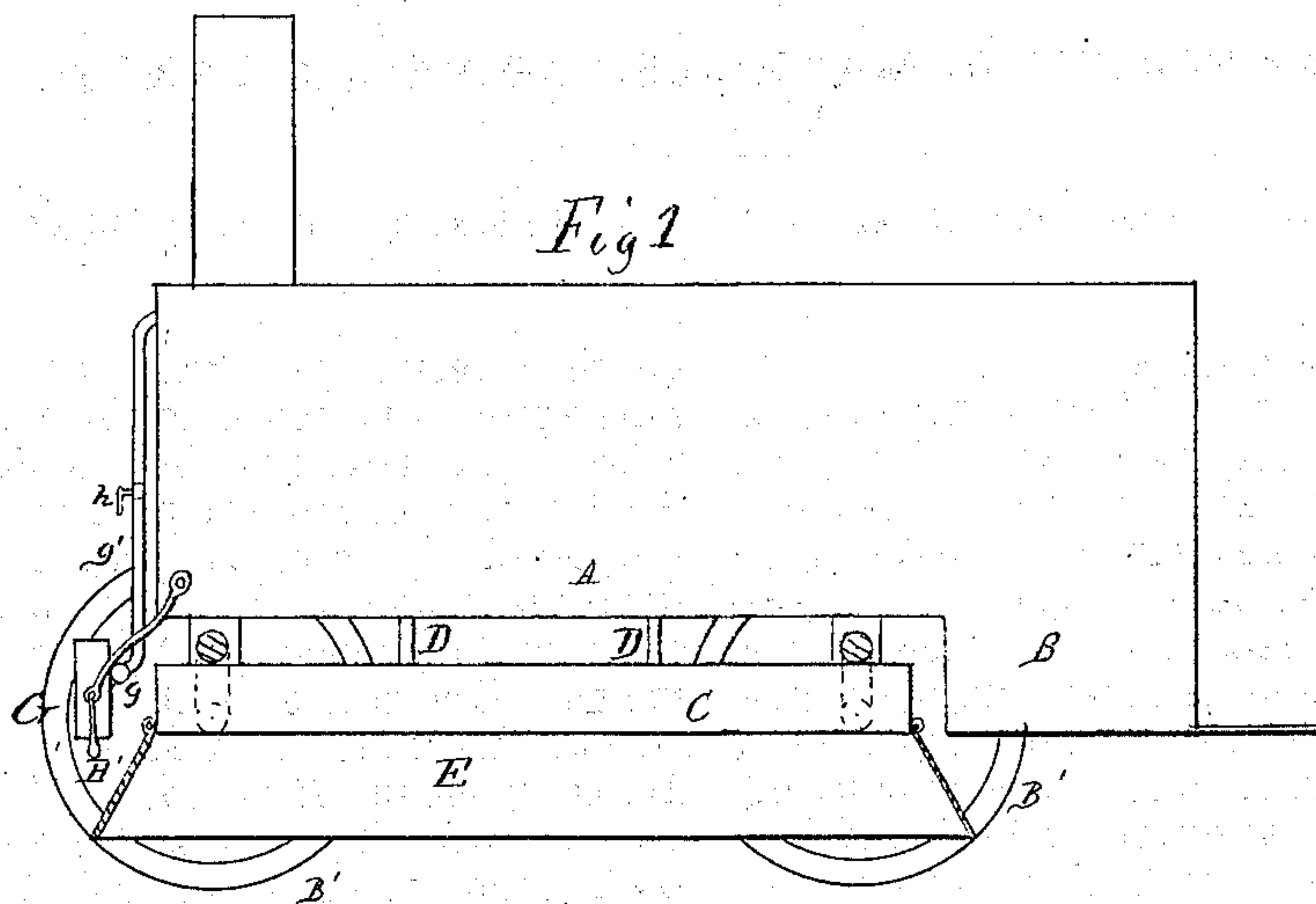


**J. MULLALY.**  
**Machines for Melting Snow.**

No. 136,853.

Patented March 18, 1873.



*Witnesses*  
*J. B. Connolly*  
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*Inventor*  
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*Atty's*

# UNITED STATES PATENT OFFICE.

JOHN MULLALY, OF NEW YORK, N. Y.

## IMPROVEMENT IN MACHINES FOR MELTING SNOW.

Specification forming part of Letters Patent No. 136,853, dated March 18, 1873.

*To all whom it may concern:*

Be it known that I, JOHN MULLALY, of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Machines for Melting Snow; and I do hereby declare that the following is a full, clear, and exact description thereof, that will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing and to the letters of reference marked thereon, which form a part of this specification.

This invention has relation to an apparatus for melting snow and ice on streets by the use of steam projected in the form of spray or jets; and it consists in the construction and novel arrangement of devices whereby the steam may be thrown in any desired direction, substantially in the manner hereinafter described.

In the drawing, Figure 1 is a side elevation and partial section of my invention. Fig. 2 is a front or face view of movable steam-distributor for front of snow-melter. Fig. 3 is a face view of movable side distributor. Fig. 4 is an under-side view of perforated tank.

A in the drawing shows a steam-boiler, with furnace B attached, the whole mounted on wheels B', for which sleigh-runners may be sometimes substituted. C designates an oblong tank, of any suitable form, that shown in drawing being preferable. This tank is located underneath the boiler, and occupies nearly the entire space between the wheels.

The bottom of said tank is perforated, as shown, to allow steam to be thrown upon the snow between the wheels. The steam is admitted to the tank from the boiler or from a steam-drum by means of tubes D. The sides of said tank are closed to prevent steam from being thrown off at the sides of the apparatus constantly. E designates a flexible or hinged apron surrounding the tank, and designed to prevent the escaping steam from passing out at the sides of the apparatus, in such a manner as to frighten horses or endan-

ger the safety of pedestrians on the sidewalks. This apron is attached to the tank or located close to it to admit of the use of the devices G G', which consist of pivoted steam-chests supported by arms H, and communicating with the boiler or steam-drum by means of the flexible pipe-coupling *g* and pipes *g'*, as shown. One side of each chest is perforated for the distribution of steam, which is controlled by means of the cocks *h*. These chests may be turned by means of cranks A' or otherwise, and are employed and arranged in the manner shown, so that the steam may be thrown against heaps of snow in front of or at the sides of the apparatus. Generally, the steam-tank may be employed alone to obtain a constant distribution of steam to melt the snow between the wheels. The movable chests are, however, essential, especially the one in front, as snow-heaps will obstruct the progress of the machine.

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

1. The machine for melting snow, consisting of the steam-boiler A, furnace B, tank C with perforated bottom, apron E, and auxiliary distributors G G', arranged substantially as and for the purpose specified.

2. The movable perforated steam-chests G G', constructed and arranged substantially as specified.

3. A machine for melting snow and ice on streets and pavements, consisting of a truck mounted on plain tired or rimmed wheels, and supporting a steam-boiler and furnace and a horizontal steam-tank, the latter located between the wheels, perforated in its lower surface, and otherwise constructed as shown, and having communication with the steam-boiler, substantially as specified.

In testimony that I claim the foregoing I have hereunto set my hand.

Witnesses: JOHN MULLALY.  
JOS. T. K. PLANT,  
M. DANL. CONNOLLY.