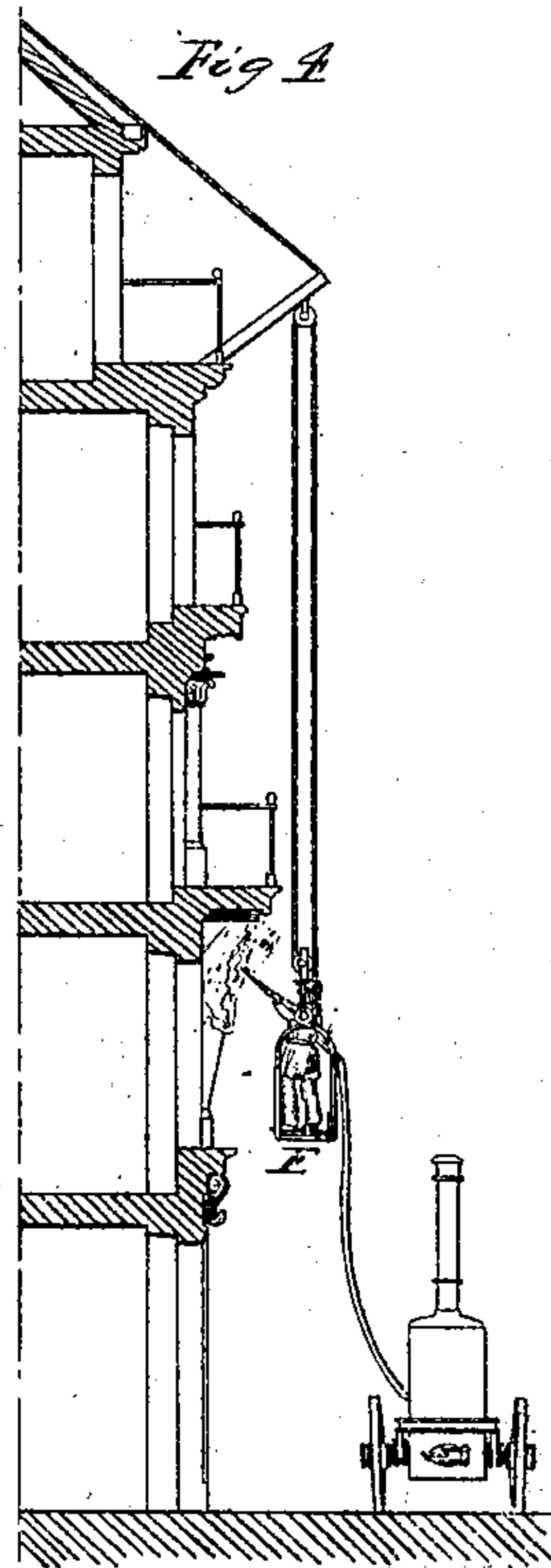
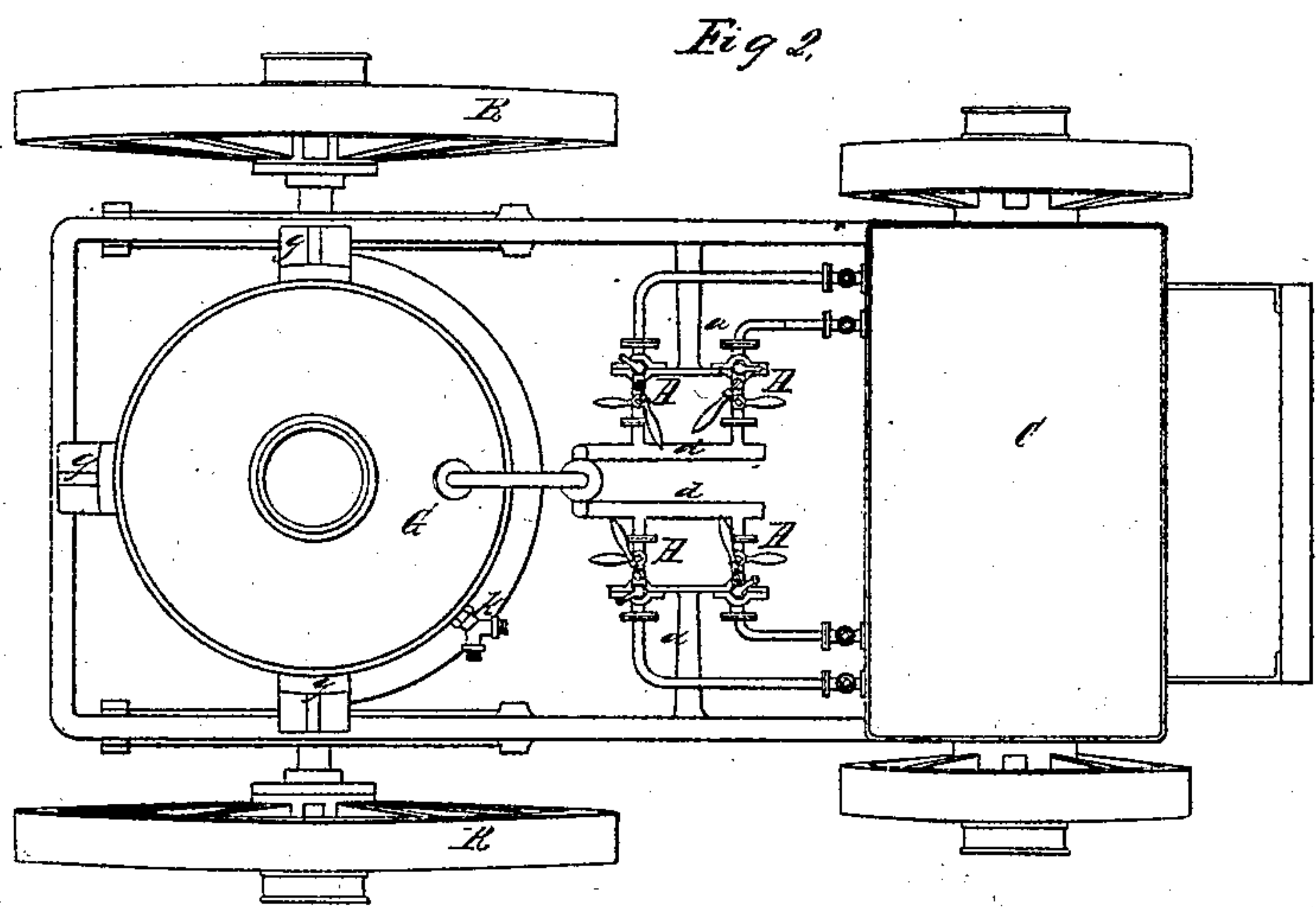
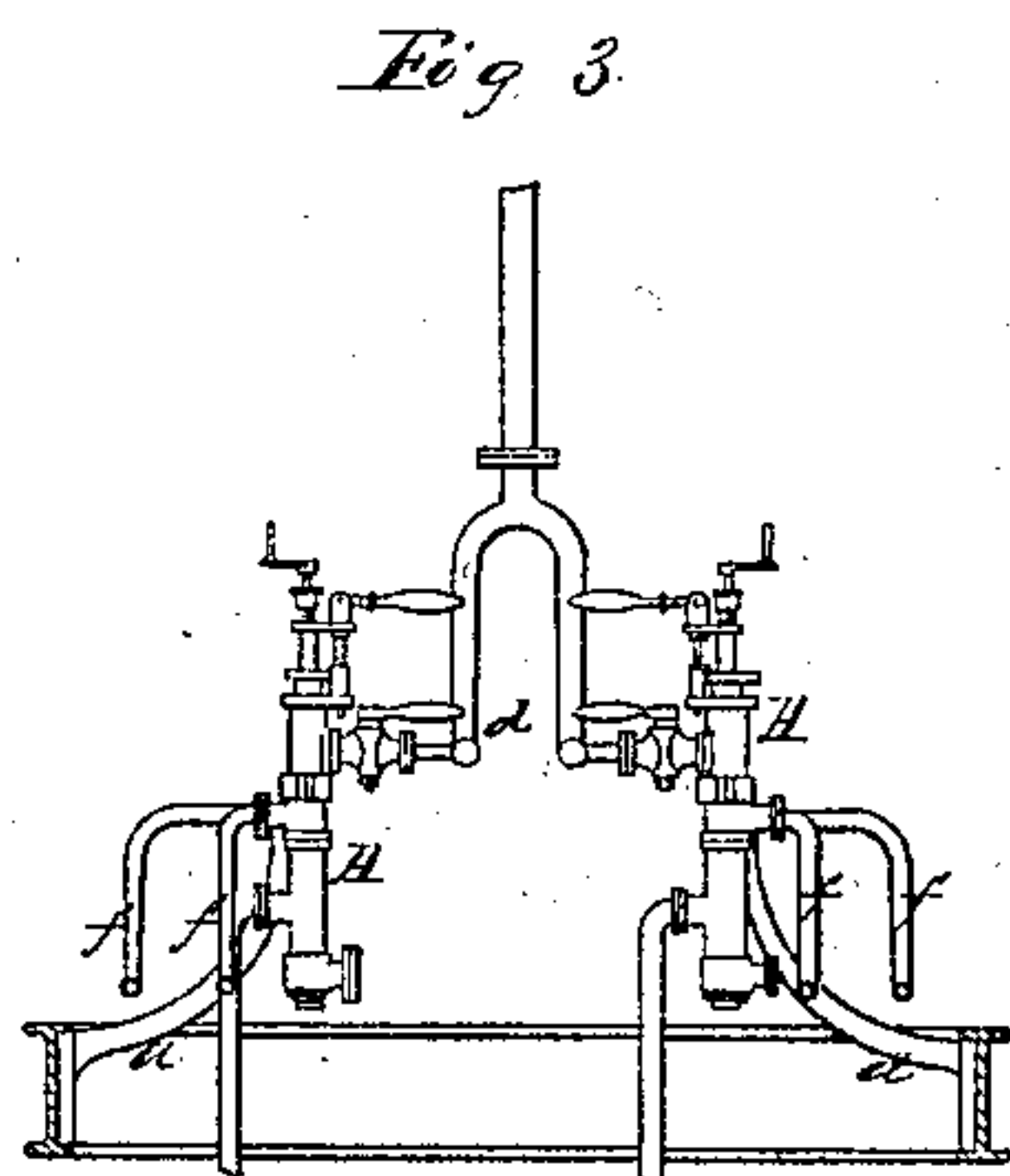
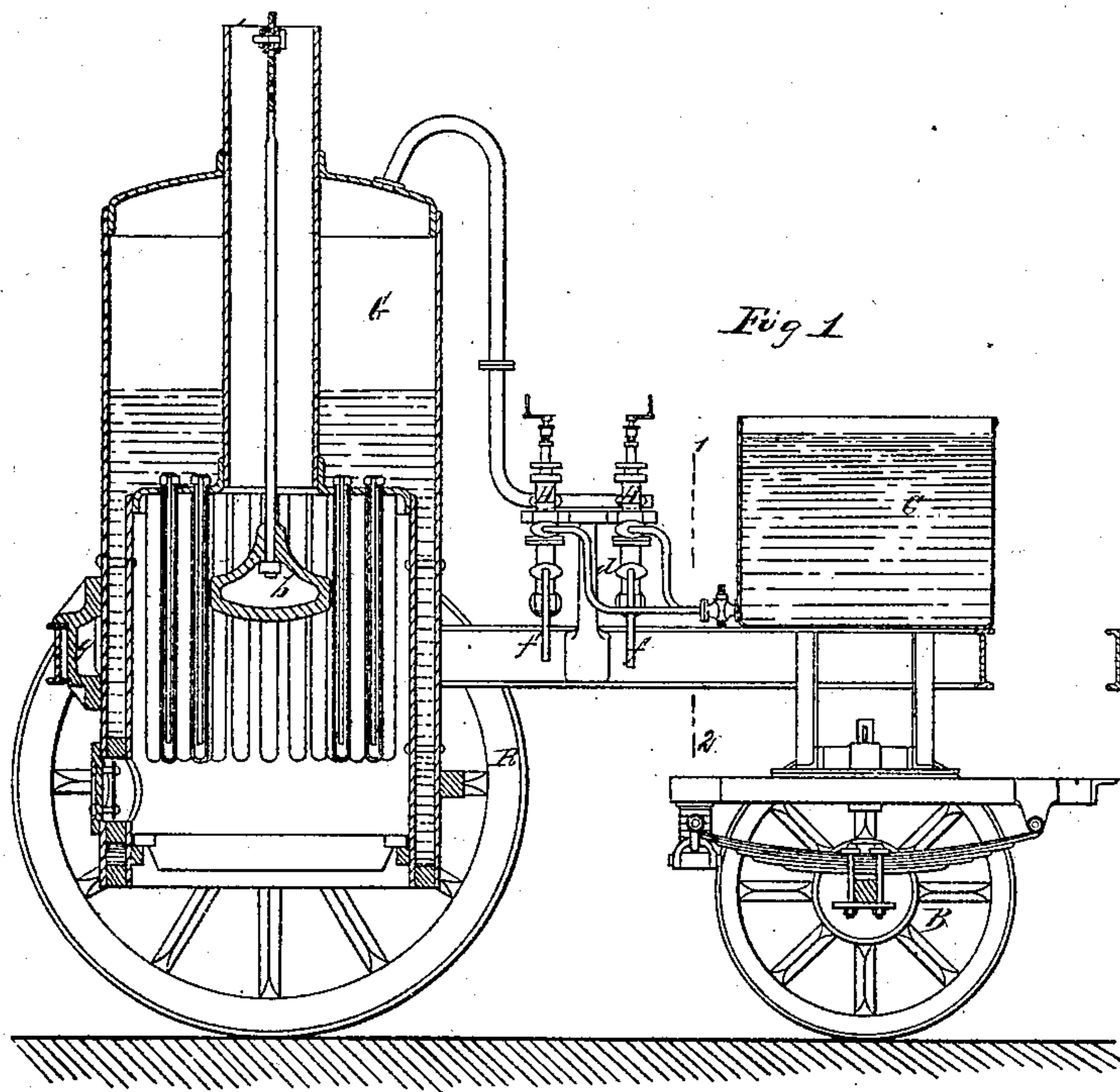


C. NIVERT.
STEAM DEVICE FOR WASHING BUILDINGS.

No. 84,132.

Patented Nov. 17, 1868.



Witnesses,
Jos. H. Adams
John Bulkeley

Inventor,
C. Nivert
By Attorney
H. H. Brown



CHARLES NIVERT, OF PARIS, FRANCE.

Letters Patent No. 84,132, dated November 17, 1868.

IMPROVED STEAM-DEVICE FOR WASHING BUILDINGS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, CHARLES NIVERT, of Paris, France, have invented an Improved Apparatus for Washing Buildings, &c.; and I do hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to an apparatus for throwing water or other liquids upon structures or other places to be cleansed, and consists of devices, fully described hereafter, for accomplishing the said purpose.

In order to enable others skilled in the art to make and use my invention, I will now proceed to describe its construction and operation, reference being had to the accompanying drawing, which forms a part of this specification, and in which—

Figure 1 is a sectional elevation of my improved cleaning-apparatus;

Figure 2, a plan view;

Figure 3, a detached view of part of the apparatus; and

Figure 4, a view illustrating the manner of using the apparatus for cleaning the fronts of buildings.

Upon a suitable truck, R, is secured a steam-generator, G, the steam-space of which communicates with pipes *d d*, connected to a series of injectors, A A, the latter being arranged upon the truck as shown in the drawing.

On the front of the truck is a reservoir, C, which communicates, through pipes *a*, (each having a cock,) with the injectors, and from the latter extend tubes *f*, to which may be connected rubber or other flexible delivery-pipes, provided with nozzles at their outer ends.

The tank C is filled with water, which flows into and is discharged from the injectors, on the admission of steam into the latter, the water passing into the flexible hose, from which it is discharged with such force as to thoroughly cleanse the building or other object against which it is thrown.

In order to reach the more elevated portions of a building, the hose may extend to a scaffold suspended in front of the building, so as to be adjustable vertically.

As the water is heated by its contact with the steam in the injectors, it has a more thorough cleansing effect than a stream or streams of water discharged by the action of a pump. In some instances, however, where warm water would not be efficient, the desired result may be produced by the use of alkaline or other solutions, the latter being introduced into the reservoir C, from which they are discharged in the same manner as the water.

It will be apparent that owing to the portability of the apparatus, structures and places which otherwise could not be reached for washing may be easily and economically cleaned.

I am aware that in locomotives and other apparatus steam-generators and injectors are arranged together upon a truck; I therefore do not claim broadly such a combination. It will be seen that my device, owing to the peculiar arrangement of the parts thereof, performs a function which is not attained in the machines referred to.

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

The combination of the injectors A A, their delivery-pipes *f*, tank C, communicating, through pipes *a a*, with the injectors, and steam-generators G, communicating with the injectors, through pipes *d*, the whole being arranged and constructed as herein set forth.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

C. NIVERT.

Witnesses:

E. RICHARD
LUIS BIZOT.