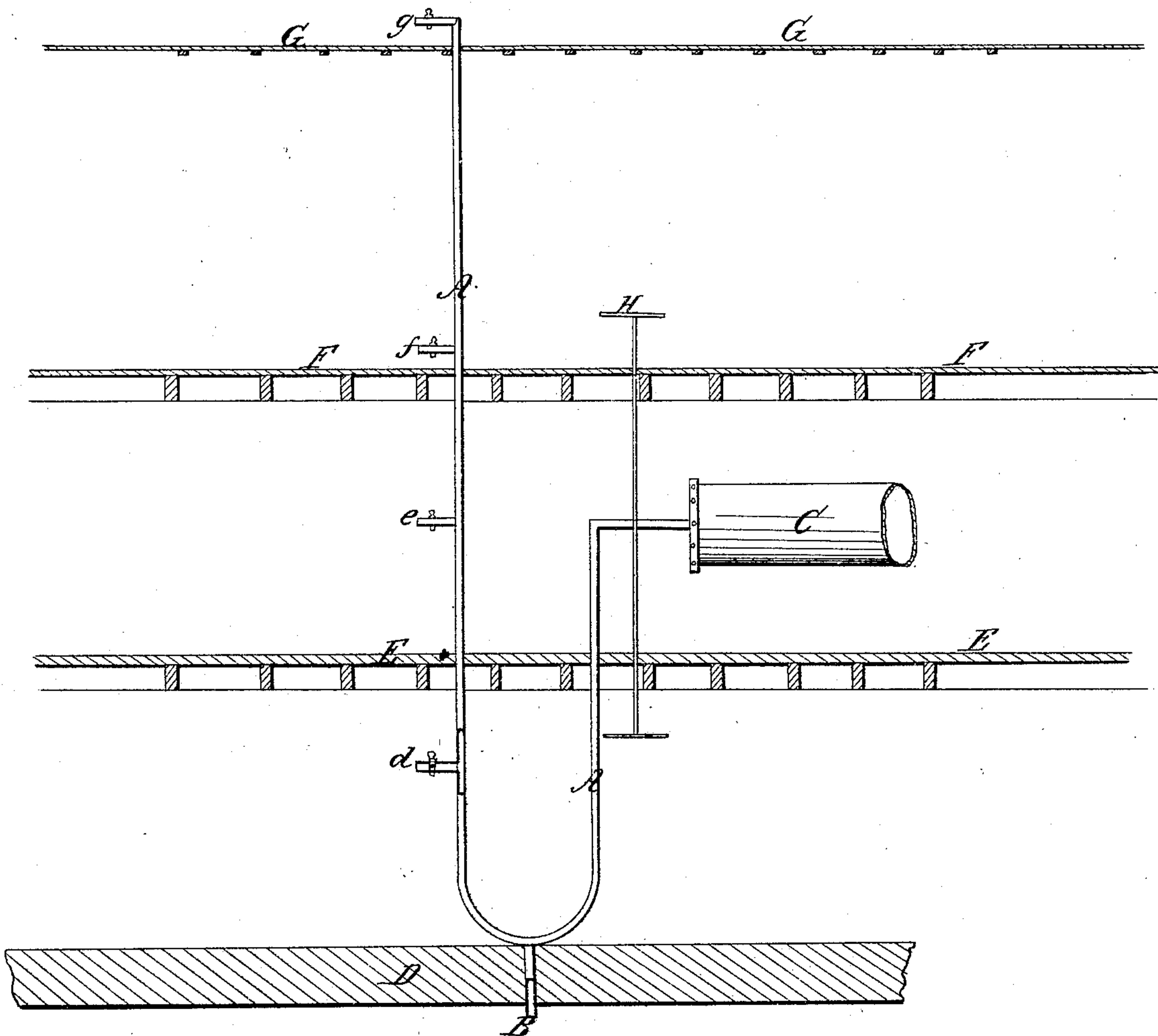


*D. Spooner.*

*Fire Extinguisher for Ships.*

*N<sup>o</sup> 69, 267.*

Patented Sept. 24, 1867.



Witnesses;  
Charles A. Pettit  
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# UNITED STATES PATENT OFFICE.

DANIEL SPOONER, OF LOWELL, OHIO.

## IMPROVED MEANS FOR EXTINGUISHING FIRE IN STEAMSHIPS.

Specification forming part of Letters Patent No. **69,267**, dated September 24, 1867.

*To all whom it may concern:*

Be it known that I, DANIEL SPOONER, of Lowell, in the county of Washington and State of Ohio, have invented a new and useful Improvement in Fire-Extinguisher for Vessels; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, and in which the figure shows my apparatus in position for use on board of a steamboat.

The object of the invention is to draw water from beneath a vessel and elevate it to any part of the ship, for the purpose of extinguishing fires, by means of the direct action of steam.

In the drawing, A represents a pipe bent in the form of the letter U, the bent end resting on the floor of the ship, near the keel, and connected with the water under the ship by means of a short pipe, B, which runs down through the planking into the water, and admits the water to the pipe A. C is the steam-drum, with which one end of the pipe A communicates. D represents the ship's keel; E, the main deck; F, the cabin-floor or upper deck, and G the cabin-roof. *d, e, f, and g* are cocks for admitting the water from the pipe A to the different parts of the ship, the cock *d* being situated in the lower hold, *e* in the upper hold, *f* in the cabin, and *g* above the house. H is the throttle-valve, worked from the cabin, by means of which the steam is let on or shut off, as the apparatus may render necessary. A valve

may be placed between the water-inlet pipe B and the cocks *d e f g*, to prevent the return of the water after it has been once elevated.

In such a water-elevator the steam from the drum C, entering the pipe A, forces the water that is in it up into the end of the pipe opposite to that attached to the steam-drum, and expels it from the pipe, creating a vacuum in the pipe A, which is instantly filled with water by atmospheric pressure through the short pipe B.

By this simple process water may be at all times forced, in any desired quantities, to any part of a steamboat. No complicated arrangement of pumps, hose, buckets, &c., is needed, but a simple pipe attached to the steam-drum does all the work.

The apparatus is not only simple, cheap, and effective, but is not liable to get out of repair.

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

The steam fire-extinguisher above described, consisting of the pipe A, having several outlet-cocks, *d e f g*, the steam-drum C, the throttle-valve H, and the short pipe B, when used for the purpose and constructed in the manner specified.

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Witnesses:

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