

J. T. COWLES.
FIRE-ESCAPE.

No. 172,976.

Patented Feb. 1, 1876.

Fig. 1

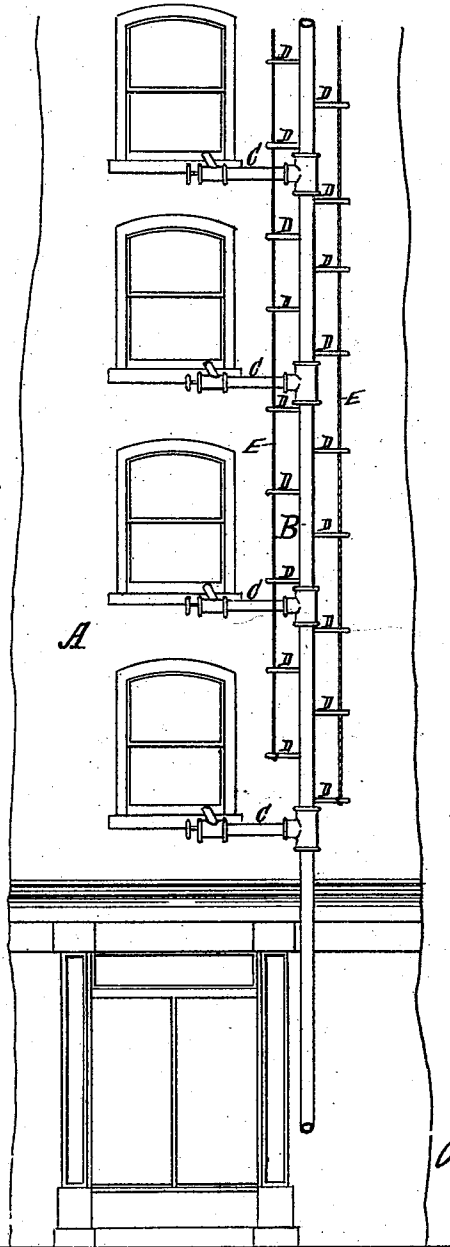
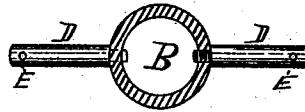


Fig. 2



WITNESSES =

Julius Wilkey
J. W. Merriam

INVENTOR =

John T. Cowles,
By Sherburne & Co
Attorneys,

UNITED STATES PATENT OFFICE.

JOHN T. COWLES, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN FIRE-ESCAPES.

Specification forming part of Letters Patent No. 172,976, dated February 1, 1876; application filed June 30, 1875.

To all whom it may concern:

Be it known that I, JOHN T. COWLES, of Chicago, in the county of Cook and State of Illinois, have invented a Combined Stand-Pipe and Ladder; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a front elevation of a portion of a building with my invention attached thereto, and Fig. 2 is an enlarged cross-section of my said invention detached from the building.

Similar letters of reference indicate like parts in both figures of the drawing.

My invention has for its object to improve the class of combined stand-pipes and ladders now in use; and to that end it consists in the combination with the ordinary stand-pipe, provided with a series of horizontal bars arranged at graduated distances one from the other, of side guides, as will be more fully understood by the following description and claim.

In the drawing, A represents the wall of the building, and B the stand-pipe. This pipe is permanently attached to the outer surface of the wall, in close proximity to the windows, and extends from a point near the sidewalk upward to the upper story of the building, and is so arranged at its lower end as to admit of being readily coupled to the discharge-pipe of the engine. (Not shown.) Permanently attached to this pipe at a point near the base of each window, and communicating

with the interior of the pipe, is a coupling, C. These couplings are so arranged as to admit of readily attaching a hose to them for discharging water into the different apartments on the respective floors of the building. D D are horizontal bars, which are permanently attached to the pipe B on opposite sides of the same, and at graduated distances one above the other, as shown in Fig. 1. The arrangement of these bars is such as to form a series of steps, by which means a person can readily ascend the pipe to any floor of the building. E E are wire ropes or metal rods, which pass through the bars D D near their outer ends, forming the guards or side rails proper of the ladder, as shown in Fig. 1.

It is readily seen that with my invention, in case a fire should break out in any of the upper stories of the building, the firemen can readily ascend the pipe and connect the hose to the coupling at the story in which the fire is burning, while the lower end of the stand-pipe is being connected to the discharge-pipe of the engine, thus relieving the fireman of the labor of carrying with him the amount of hose, when the latter is connected directly to the discharge-pipe of the engine.

Having thus described my invention, I claim—

The combination of the stand-pipe B, horizontal bars D D, and side guards E E, all constructed and arranged substantially as and for the purpose specified.

JOHN T. COWLES.

Witnesses:

J. T. WHIPPLE,

J. W. MERRIAM.