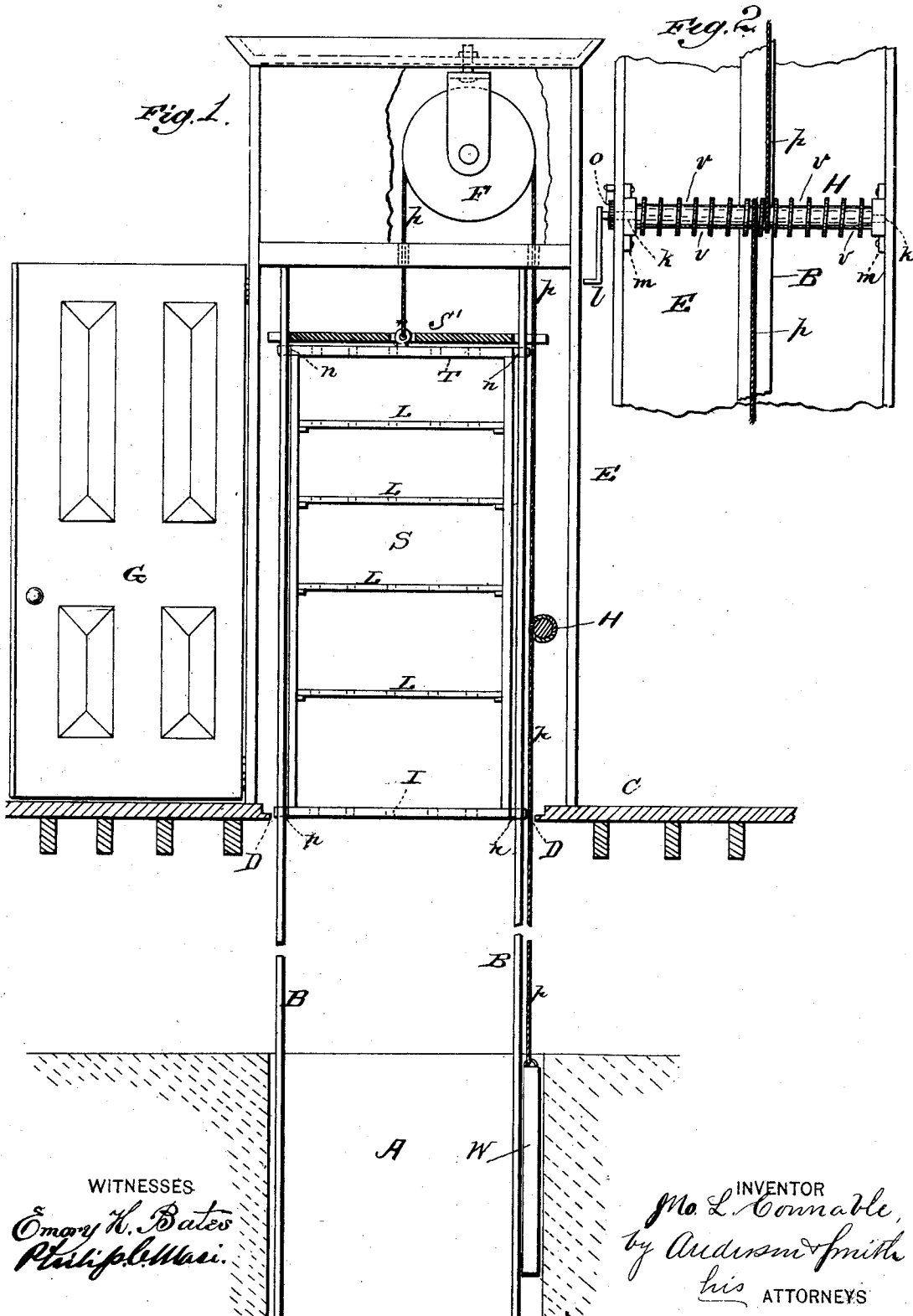


(No Model.)

J. L. CONNABLE.
SUBTERRANEAN DUMB WAITER.

No. 262,007.

Patented Aug. 1, 1882.



WITNESSES

Emory H. Bates
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INVENTOR

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UNITED STATES PATENT OFFICE.

JOHN L. CONNABLE, OF XENIA, OHIO.

SUBTERRANEAN DUMB-WAITER.

SPECIFICATION forming part of Letters Patent No. 262,007, dated August 1, 1882.

Application filed June 10, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOHN L. CONNABLE, a citizen of the United States, and a resident of Xenia, in the county of Greene and State of Ohio, have invented a new and valuable Improvement in Subterranean Dumb-Waiters; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a vertical sectional view of my device, and Fig. 2 is a detail view.

This invention has relation to elevating subterranean dumb-waiters; and it consists in the construction and novel arrangement of the ventilated safe, its suspending cord or chain, pulley, screw-grooved operating-roller, and the well or sub-cellar into which the safe descends, all as hereinafter set forth.

In the accompanying drawings, the letter A designates the well or sub-cellar into which the safe is designed to be lowered in order to keep the articles therein at a cool and uniform temperature.

B B represent side guides, being vertical strips extending from the well or sub-cellar upward to the floor C of the house, and above said floor through an opening, D, therein, which is of sufficient size to provide for the passage of the safe.

E represents an incasement or closet over the opening D in the floor C, to the top of which is attached a pulley, F. This closet or incasement E is provided with a door, G, which serves to protect the safe when raised and to guard the opening D when the safe has been lowered into the well or sub-cellar. A trap, S', is provided above the top of the safe S, which closes the opening D when the safe has been lowered into the well A. This trap S' is carried up and down with the safe as the latter is raised and lowered.

H represents a horizontal roller, provided with journals *k*, ratchet *o*, and an operating-handle, *l*. The journals *k* are seated in bear-

ings *m* on the incasement E, and the elevating rope or chain *p*, which extends from the safe up over the pulley F and downward therefrom to said roller, is wound once or twice around the same, its end descending through the opening D in the floor and carrying the weight W, which is designed to counterbalance the safe. The roller H is provided with a guiding spiral groove, *v*, which is designed to prevent the rope or chain from working against itself when the roller is turned. It also serves to prevent the rope from winding on itself.

S indicates the safe, the walls of which may be of wood, tin, or galvanized iron, and in either case are perforated to allow free ventilation; or wire screen-cloth may be used. The safe is provided with a number of shelves, L, which may also be perforated, and it is advisable to provide ventilating-openings in the top, T, and bottom, I, of the safe. The safe is provided with lateral notches or bearings *n* to engage the vertical guide-strips B, so that the safe will move steadily and evenly. This safe is perfectly ventilated, and, as it is not inclosed when below the floor C, the air has free access to the articles contained therein. It is designed to keep provisions sweet and cool, and to keep them from insects and vermin.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

In an elevating or subterranean dumb-waiter, the incasement E, having the operating-roller H and pulley F, and the lateral guide-strips B, extending down into the well or sub-cellar, the ventilated safe S, having the lateral bearings *n*, and the rope or chain *p*, extending from said safe over said pulley, around said roller, and downward, carrying the counterbalancing-weight W, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN LEE CONNABLE.

Witnesses:

JOHN LITTLE,
C. C. SHEARER.