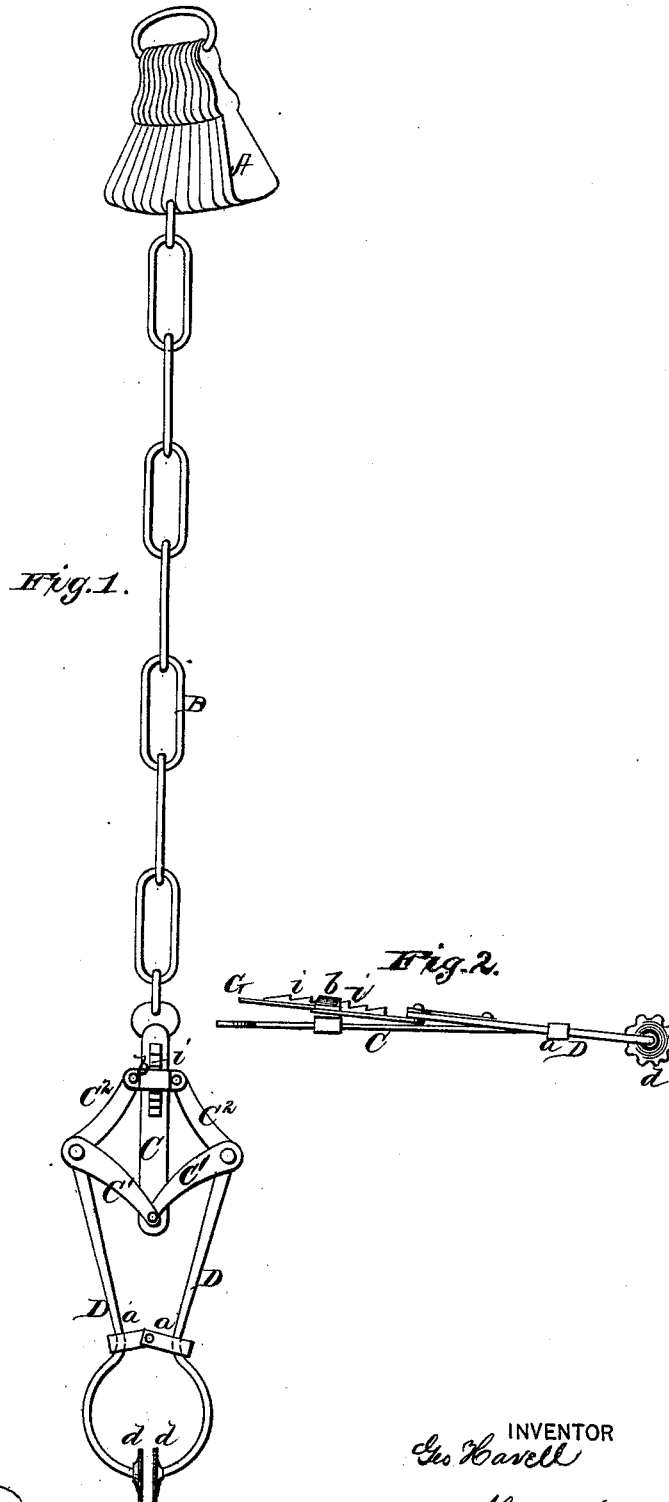


G. HAVELL.
Dress-Elevator.

No. 196,664.

Patented Oct. 30, 1877.



WITNESSES
Frank L. Curran
Frank Galt

INVENTOR
G. Havell
Howard Swason
ATTORNEYS

UNITED STATES PATENT OFFICE.

GEORGE HAVELL, OF NEWARK, NEW JERSEY.

IMPROVEMENT IN DRESS-ELEVATORS.

Specification forming part of Letters Patent No. **196,664**, dated October 30, 1877; application filed September 27, 1877.

To all whom it may concern:

Be it known that I, GEORGE HAVELL, of Newark, in the county of Essex and in the State of New Jersey, have invented certain new and useful Improvements in Dress-Elevators; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

This invention relates to dress-elevators; and it consists in the construction and arrangement of the arms of the tongs and the mechanism for opening and closing the same, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a side view of my improved dress-elevator. Fig. 2 is a detailed view of a part thereof.

A represents the hook, with the chain B constructed in any of the known and usual ways. The end of the chain B is attached to a bar, C, the outer end of which is, by means of toggle-arms C¹ C¹, connected with the levers D D. These levers are pivoted together by means of the plates or arms *a a*, and their outer ends are curved in semicircular or other suitable form, and provided with the jaws *d d*. The inner ends of the levers D D are fur-

ther, by toggle-arms C² C², connected with a loop, *b*, which encircles or surrounds the bar C, and also a spring-pin or spring-bar, G, attached to said bar C, and running lengthwise of the same. On the spring-bar G are formed or attached ratchet-teeth *i i*, in which the loop *b* catches to hold the jaws of the elevator closed. By simply pressing down the spring-bar G the ratchet-teeth are released from contact with the loop *b*, and the levers D D can be opened. In closing the jaws of these levers, the loop *b* slides over the ratchet-teeth, so that no manipulation of the spring-bar G is required.

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

1. The toggle-arms C² C², fastened to the loop *b* and to the pivoted levers D D, for the purpose of opening and closing the latter, substantially as set forth.

2. In a dress-elevator, the combination, with the pivoted levers D D, of the bar C, toggle-arms C¹ C¹ and C² C², loop *b*, and spring-bar G, with ratchet-teeth, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 6th day of September, 1877.

GEORGE HAVELL.

Witnesses:

CHAS. M. JESSUP,
H. A. KINGSLEY.