

J. Y. STEWART & E. G. CONWELL.

STAIR.

No. 172,830.

Patented Feb. 1, 1876.

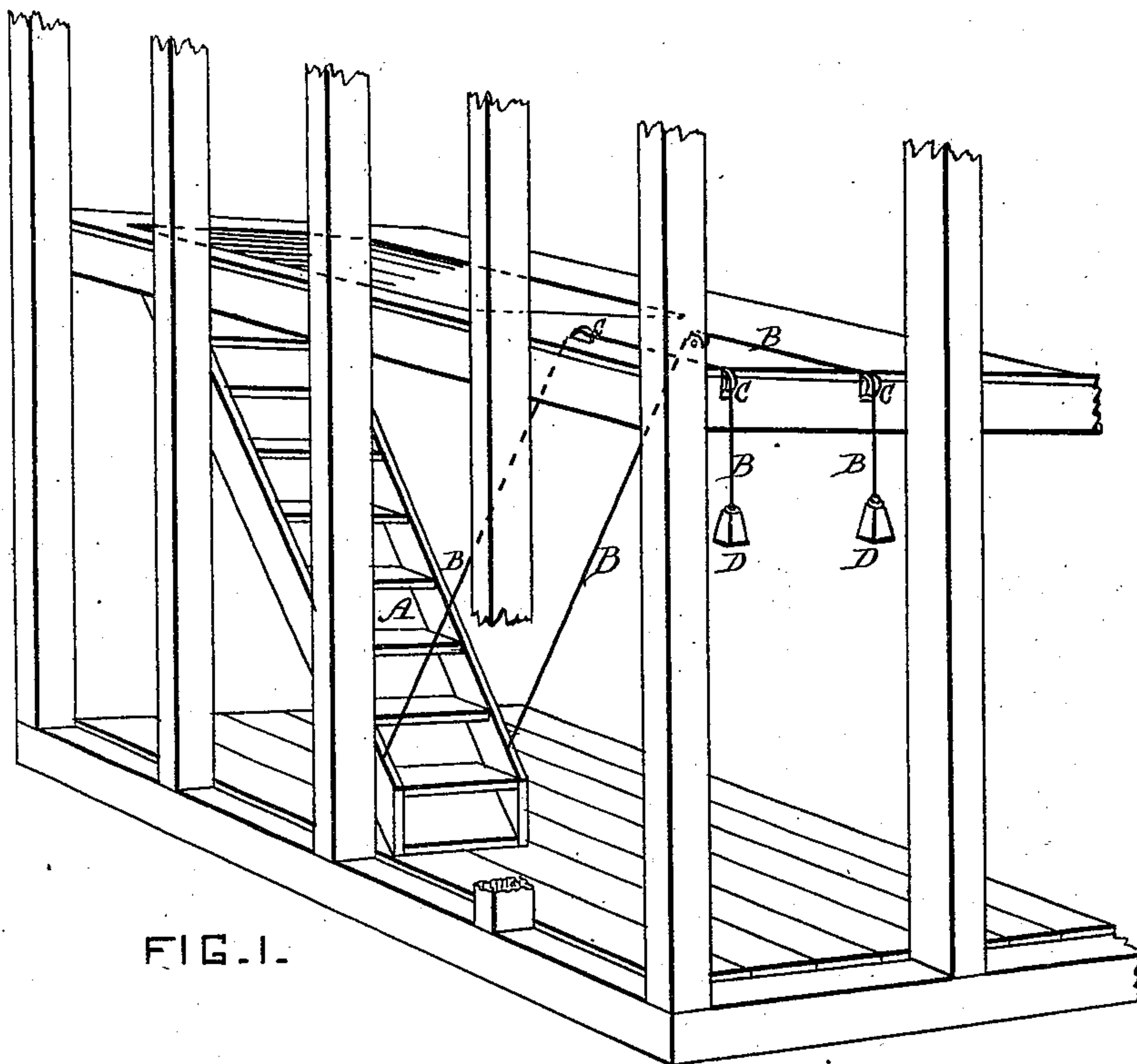


FIG. 1.

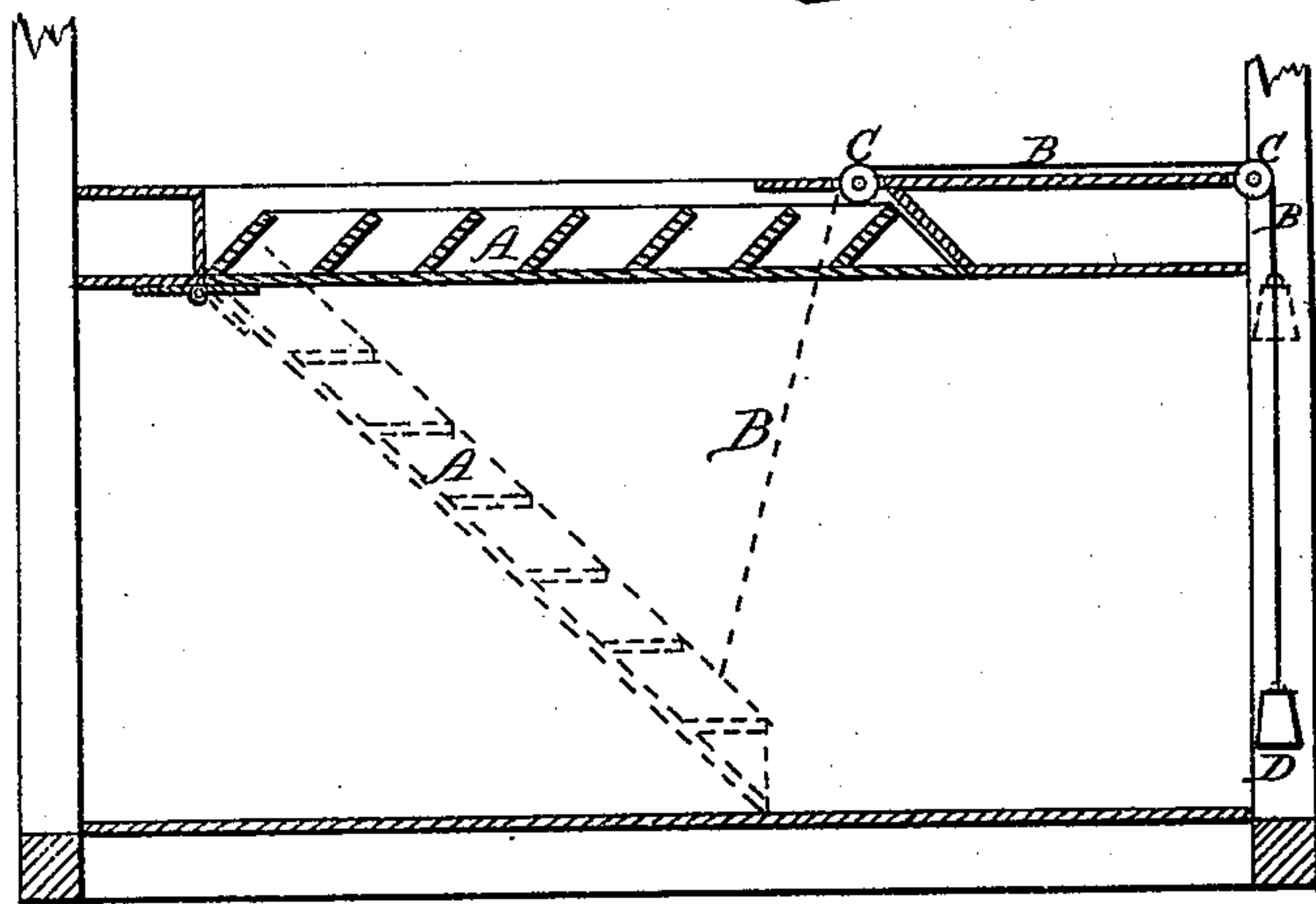


FIG. 2.

WITNESSES.

G. A. C. Smith.
A. V. Robinson.

INVENTORS

J. Y. Stewart
Edward G. Conwell.

UNITED STATES PATENT OFFICE

JAMES Y. STEWART AND EDWARD G. CONWELL, OF DOVER, DELAWARE.

IMPROVEMENT IN STAIRS.

Specification forming part of Letters Patent No. **172,830**, dated February 1, 1876; application filed January 17, 1876.

To all whom it may concern:

Be it known that we, JAMES Y. STEWART and EDWARD G. CONWELL, of Dover, in the county of Kent and State of Delaware, have invented a new and useful Improvement in Stairs, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings.

The object of our invention is to economise room—for instance, in a store, where it is desirable to have a flight of stairs to ascend to the floor above, and yet, when fixed or stationary, as they are usually constructed, they may take up much valuable space; and the intention of our invention is to obviate this difficulty, which is accomplished by hinging the stairs to the floor or ceiling next above the store-room, so that when not in use they can be raised up out of the way.

In the drawing, Figure 1 is a perspective view, and Fig. 2 a vertical section.

A represents the stairs or steps, the upper end of which is hinged to the under side of the second floor.

Near the lower end of the stairs are attached cords B B, which extend upward and over

pulleys C in the second floor, and on their other ends are weights D D, of sufficient heft to hold the stairs in any position in which they may be placed. Instead of weights, springs may be used, such as are sometimes used on doors, which will wind the cords around them.

The position of the stairs when required for use is shown in Fig. 1 and by dotted lines in Fig. 2, and when they are not needed they can be raised into the opening in the second floor, as shown in Fig. 2, and are held there by the weights D D; or on the lower end of the steps there may be a spring-bolt, which will hold them up, and attached to which is a cord that will not only serve to withdraw the bolt, but to draw down the stairs when wanted for use.

We claim as our invention—

The combination of the stairs A, cords B B, pulleys C C, and weights D D, or their equivalent, when constructed and arranged substantially as described.

J. Y. STEWART.

EDWD. G. CONWELL.

Witnesses:

G. A. C. SMITH,

A. V. ROBINSON.