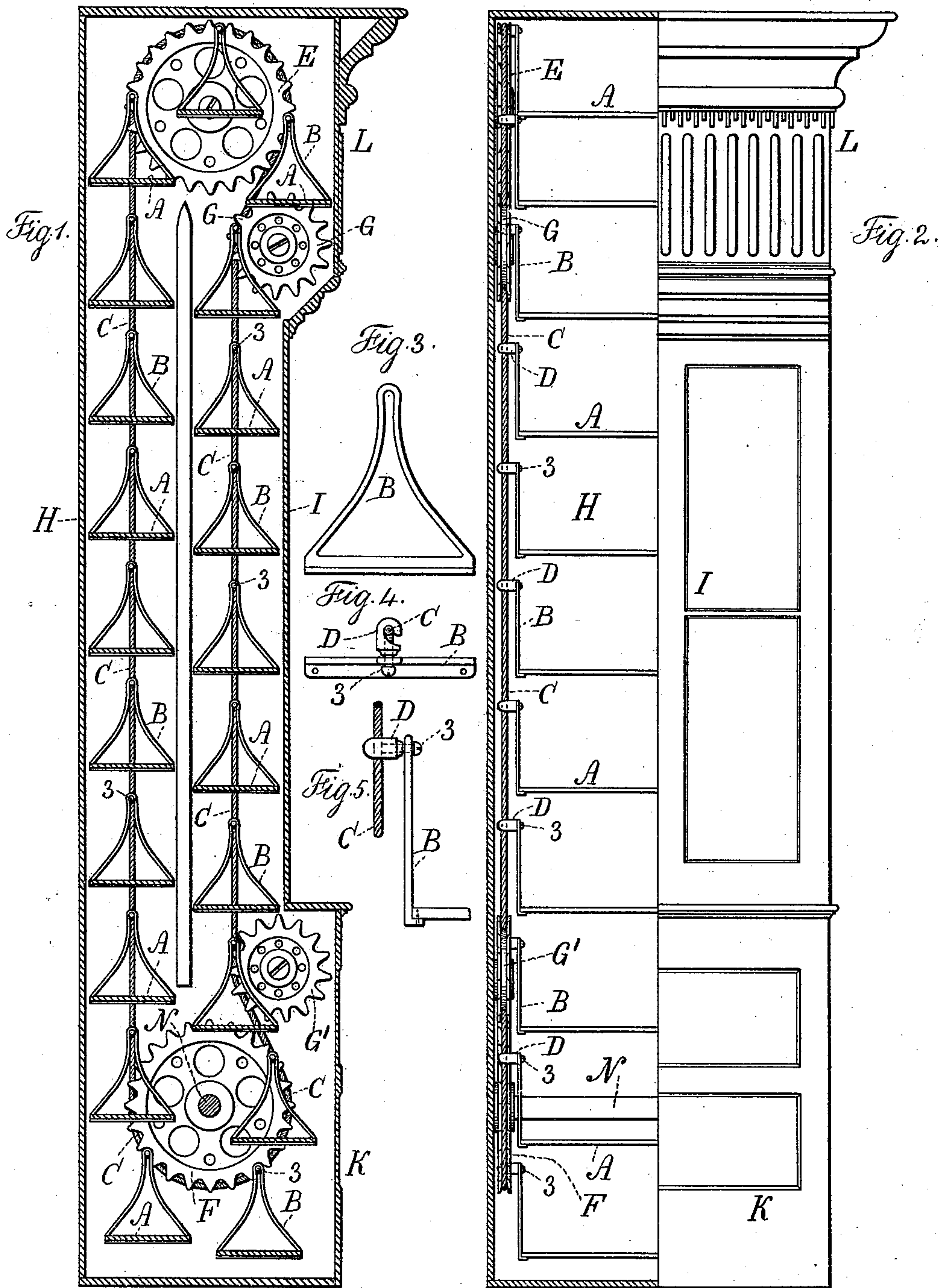


(No Model.)

A. W. BAXTER.
CASE FOR BOOKS, PAPERS, &c.

No. 547,535.

Patented Oct. 8, 1895.



Witnesses:
J. Stait
Chas. H. Smith

Inventor:
Alexander W. Baxter
per Lemuel W. Perrell Atty

UNITED STATES PATENT OFFICE.

ALEXANDER W. BAXTER, OF JERSEY CITY, NEW JERSEY.

CASE FOR BOOKS, PAPERS, &c.

SPECIFICATION forming part of Letters Patent No. 547,535, dated October 8, 1895.

Application filed January 23, 1895. Serial No. 535,859. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER W. BAXTER, a citizen of the United States, residing at Jersey City, in the county of Hudson and State of New Jersey, have invented an Improvement in Cases for Books, Papers, &c., of which the following is a specification.

A case has been made in which the receptacles are hung by end pieces from pivots upon endless connections passing around wheels at the top and bottom of the bookcase, as in Patent No. 80,893.

In the present invention I provide clips for connecting the hanging supports for the shelves to the wire ropes, such clips being made as hooks, so as to be placed upon or removed from the endless wire ropes, as desired, and also moved along upon such wire ropes to regulate the distances between the respective shelves.

In the drawings, Figure 1 is a vertical transverse section of the bookcase, showing the present improvements. Fig. 2 is a partial elevation of the bookcase, showing one side thereof in section. Fig. 3 is an elevation of one of the hangers, and Figs. 4 and 5 are detached views of one of the clips used to connect the hanger and the wire rope.

The shelves A are of suitable length, width, and thickness, and upon their ends there are the hangers B, preferably triangular in form, with bottom flanges upon which the ends of the shelves rest, and with the upper portion similar to a slot between the two side portions of the hangers, and the endless wire ropes C are connected to the hangers by the clips D, which clips are in the form of hooks with openings sufficient for hooking the clip around the wire rope, and each clip is provided with a screw 3, by which the wire rope is clamped, and the head of the screw projects, so that the hanger of the book-shelf is hooked over the same, and the screw having a plain cylindrical portion projecting beyond the clip allows the clip to be carried around with the wire rope and the screw to turn in the upper end of the slot of the hanger.

The upper wheels E and lower wheels F are of suitable size for allowing the clips and the suspended shelves to be carried around from the front to the back of the case as the shelves are moved up or down, the books held

by the shelves moving clear one of the other, so as not to be disturbed by contact with each other during the movement, and the guide-wheels G G' are adapted to holding the front vertical portions of the endless wire ropes as near to the back vertical portions of such endless wire ropes as consistent with the width of shelves and the sizes of the books upon such shelves, so that the middle portion of the case between the back H and the doors I need only be a little more than the measurement from front to back of two ranges of books, and the lower part K of the case and the upper part L extend forward sufficient to inclose the guide-wheels G G' and give the space necessary for the shelves to swing clear one of another as such shelves are carried bodily around from one side of the wheels E F to the other side of such wheels, and I remark that it is advantageous to connect the lower wheels F by a cross-shaft N and to provide notches in the wheels as well as grooves, so that the clips D will pass into the notches and the endless wire ropes into the grooves, and both ends of all the shelves will be moved equally and simultaneously, and the books and shelves will pass below the cross-shaft N as they are brought from the one range to the other by the movement of the parts, and it is advantageous to support the upper wheels E only on gudgeons or studs extending out from the case, so that there will be nothing to interfere with the shelves hanging down from the clips as they pass adjacent to these upper wheels. The shelves may be moved up or down in bringing any desired shelves into position or mechanism may be provided for moving or holding the shelves as usual.

I claim as my invention—

The combination with the endless wire ropes, the shelves and their hangers, of clips in the form of hooks with openings at the sides so as to be placed on or removed from the wire ropes, and clamping screws passing through the clips and clamping the rope and also forming pivots for the hangers, substantially as set forth.

Signed by me this 12th day of January, 1895.

ALEXANDER W. BAXTER.

Witnesses:

HENRY F. BEERS,

WILLIAM E. STOCKER.